Appendix F

Analytical Reports (on CD)

Braun Intertec Corporation
11001 Hampshire Avenue S.
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Ms. Kelly Neppl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

September 24, 2009

Work Order #: 0904716
(Revised)

RE: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300

Dear Kelly Neppl:

Braun Intertec Corporation received samples for the project identified above on September 01, 2009. Analytical results are summarized in the following report.

All routine quality assurance procedures were followed, unless otherwise noted.

Analytical results are reported on an "as received" basis unless otherwise noted. Where possible, the samples will be retained by the laboratory for 14 days following issuance of the initial final report. The samples will be disposed of or returned at that time. Arrangements can be made for extended storage by contacting me at this time.

We appreciate your decision to use Braun Intertec Corporation for this project. We are committed to being your vendor of choice to meet your analytical chemistry needs.

If you have any questions please contact me at the above phone number.

Sincerely,

Steven J. Albrecht

Steven J. Albrecht
Associate Principal

Certification/Accreditation Numbers

Minnesota Department of Health: 027-053-117 Wisconsin DNR: 999462640

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904716
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

How to Use this Report

In order to get the most out of the information presented in this report please refer to the following explanations as to how the data in this report is tied together and how some of the terms are defined.

Qualifiers and Abbreviations are defined in the following section. You will find these codes used throughout the report in headers and in note sections to designate a unique fact about the data to which they are associated.

The Case Narrative gives a "story" about the analysis and results. Here you will find greater elaboration on relevant qualifiers as well as an explanation of anything of particular note in the data. This is a discussion of the data in terms of quality control and chemistry. It is a summary of any deviations that could affect the usefulness of the data. This is not an interpretation as to how this information relates to regulatory compliance, toxicity, or hazardous characterization. These items are beyond the scope of this report.

The Sample Summary provides detail on sample receipt. The association between Client sample ID and the Laboratory sample ID are defined here; this information is valuable to have when discussing results with your project manager. Sample collection and receipt dates and times are provided here as well. General notes regarding the work order are also documented here. This is a mini "case narrative" that describes any anomalies regarding the condition of the samples upon arrival to the laboratory or special circumstances regarding the work order.

The Conditions Upon Receipt summarizes the results of specific checks that have been performed at sample receipt. This includes items like custody documentation, sample condition, and temperature at receipt. Each "cooler" is identified and the conditions associated with that cooler are documented. A "cooler" is defined as the larger container used to transport the individual samples. In most cases this is a standard recreational cooler but it can be a box, plastic bag, or other container.

The laboratory results are summarized in the following sections. Data is broken down into major categories for convenience. An example of such a category would be "Total Petroleum Hydrocarbons." Here you would find data that references the testing of such parameters as diesel range organics and gasoline range organics. Other categories are similarly mapped. The batch number is associated with each sample. This is important to evaluate Quality Control (QC) data. Surrogate results samples are provided with each sample. Laboratory control limits are provided for comparison (see below). The reference method is also identified. If a method is denoted with an "M" (e.g. EPA 1234(M)) this means that it has been modified. An explanation of the modification will be found in the Case Narrative. A result is given with appropriate units. If a soil sample is dry-weight corrected then the word "dry" will appear next to the units. If the word "dry" does not appear then the result is "as received."

The Method Reporting Limit (MRL) and Method Detection Limit (MDL) are provided. It is important to understand these terms. The MRL is a level that has been empirically verified to provide reliable quantitation of results. Results that are equal to or greater than this value will show up in bold. They are considered "hits." The MDL is a statistically derived number that indicates an estimated concentration at which an analyte can be detected above the noise level. If a result is less than the MRL but greater than the MDL then it is considered an estimate. Such a result is reported with a "J" flag denoting that it has been detected but that the result is an estimate.

In this specific report format, the majority of the analyses are reported without estimated concentrations less than the MRL. For these analyses, if a result is less than the MRL, the result is given as less than the MRL (e.g. if the MRL = 10 then a less than result would be given as "<10"). However, for the Organochlorine Pesticides in water and MDA List 1 Pesticides in water analyses, if a result is less than the MRL but greater than the MDL, then an estimated result is reported with a "J" flag. If a result for either of these two analyses is less than the MDL, then the result is given as less than the MDL.

The Quality Control (QC) samples are documented in the following section. Here you will find the preparation batches associated with each sample from the results section. The sample preparation method is also defined here. Accuracy is represented here in terms of a percent recovery as compared to a known value. Precision is represented as a relative percent difference between two duplicate sample aliquots. The laboratory control limits are provided as a means to evaluate the quality control data. If the result falls outside the laboratory control limits this simply means that it is outside what is typical for the laboratory and is noted accordingly. This does not mean that the data is invalid. Laboratory control limits are generally tighter than most program limits. This is a very important distinction. How the data is ultimately used determines its validity. Program requirements are defined in the Quality Assurance Project Plan (QAPP) governing the project. If your project manager is aware of your specific program requirements then a note will be made in the case narrative if the data fails to meet any of these requirements.

The last section contains copies of important documents and/or instrument printouts relevant to the report. This includes the chain of custody. It also may include items like chromatograms or spectra.

Please note that this report is paginated and must be reproduced in its entirety.

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Qualifiers and Abbreviations

qn	The spike recovery is outside of laboratory control limits for the matrix spike (MS) and/or the matrix spike duplicate (MSD).
J	Detected but below the Method Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
COC	Chain of Custody
dry	Sample results reported on a dry weight basis
MDL	Method Detection Limit
MRL	Method Reporting Limit
NA	Not Applicable
ND	Analyte NOT DETECTED
NR	Not Reported
%Rec	Percent Recovery
RPD	Relative Percent Difference
VOC	Volatile Organic Compound

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SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC5-SS2-0.5'	0904716-01	Soil	08/31/09 09:35	09/01/09 10:12
SOC5-SS1-0.5'	0904716-02	Soil	08/31/09 10:50	09/01/09 10:12
SOC5-SS4-0.5'	0904716-03	Soil	08/31/09 11:45	09/01/09 10:12
SOC5-SS3-0.5'	0904716-04	Soil	08/31/09 13:25	09/01/09 10:12
SOC5-SS5-0.5'	0904716-05	Soil	08/31/09 15:30	09/01/09 10:12
SOC5-SS6-0.5'	0904716-06	Soil	08/31/09 15:55	09/01/09 10:12

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Conditions Upon Receipt

Cooler: Cooler 1

Temperature:	3.9 °C	**COC Included:**	Yes	**Custody Seals Used:**	No
Temperature Blank:	Yes	**COC Complete:**	Yes	**Custody Seals Intact:**	NA
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	No
Preservation Confirmed:	No	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-SS2-0.5'

0904716-01 (Soil)

8/31/09 9:35

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**83**	0.050	0.010	% Wt	B9I0073	9/3/09 12:00	9/4/09 9:36	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.028	0.028	0.0017	mg/kg dry	B9I0141	9/8/09 14:58	9/9/09 23:43	EPA 8081A	
4,4'-DDE	<0.028	0.028	0.0029	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:09	EPA 8081A	
4,4'-DDT	**0.062**	0.028	0.0025	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 23:26	EPA 8081A	
Aldrin	<0.028	0.028	0.0035	mg/kg dry	B9I0141	9/8/09 14:58	9/9/09 23:43	EPA 8081A	
alpha-BHC	<0.028	0.028	0.0025	mg/kg dry	B9I0141	9/8/09 14:58	9/9/09 23:43	EPA 8081A	
alpha-Chlordane	<0.028	0.028	0.0022	mg/kg dry	B9I0141	9/8/09 14:58	9/9/09 23:43	EPA 8081A	
beta-BHC	<0.028	0.028	0.0025	mg/kg dry	B9I0141	9/8/09 14:58	9/9/09 23:43	EPA 8081A	
delta-BHC	<0.028	0.028	0.0020	mg/kg dry	B9I0141	9/8/09 14:58	9/9/09 23:43	EPA 8081A	
Dieldrin	<0.028	0.028	0.0024	mg/kg dry	B9I0141	9/8/09 14:58	9/9/09 23:43	EPA 8081A	
Endosulfan I	<0.028	0.028	0.0031	mg/kg dry	B9I0141	9/8/09 14:58	9/9/09 23:43	EPA 8081A	
Endosulfan II	<0.028	0.028	0.0023	mg/kg dry	B9I0141	9/8/09 14:58	9/9/09 23:43	EPA 8081A	
Endosulfan Sulfate	<0.028	0.028	0.0025	mg/kg dry	B9I0141	9/8/09 14:58	9/9/09 23:43	EPA 8081A	
Endrin	<0.028	0.028	0.0031	mg/kg dry	B9I0141	9/8/09 14:58	9/9/09 23:43	EPA 8081A	
Endrin Aldehyde	<0.028	0.028	0.011	mg/kg dry	B9I0141	9/8/09 14:58	9/9/09 23:43	EPA 8081A	
Endrin Ketone	<0.028	0.028	0.0034	mg/kg dry	B9I0141	9/8/09 14:58	9/9/09 23:43	EPA 8081A	
gamma-BHC	<0.028	0.028	0.0028	mg/kg dry	B9I0141	9/8/09 14:58	9/9/09 23:43	EPA 8081A	
gamma-Chlordane	<0.028	0.028	0.0019	mg/kg dry	B9I0141	9/8/09 14:58	9/9/09 23:43	EPA 8081A	
Heptachlor	<0.028	0.028	0.0060	mg/kg dry	B9I0141	9/8/09 14:58	9/9/09 23:43	EPA 8081A	
Heptachlor Epoxide	<0.028	0.028	0.0048	mg/kg dry	B9I0141	9/8/09 14:58	9/9/09 23:43	EPA 8081A	
Methoxychlor	<0.028	0.028	0.0023	mg/kg dry	B9I0141	9/8/09 14:58	9/9/09 23:43	EPA 8081A	
Toxaphene	<0.55	0.55	0.11	mg/kg dry	B9I0141	9/8/09 14:58	9/9/09 23:43	EPA 8081A	
Surr: DBC	*84.6 %*	*Limits: 40-160%*			*B9I0141*	*9/8/09 14:58*	*9/10/09 0:09*	*EPA 8081A*	
Surr: TCMX	*84.4 %*	*Limits: 60-130%*			*B9I0141*	*9/8/09 14:58*	*9/9/09 23:43*	*EPA 8081A*	

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UMP018508

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-SS2-0.5'

0904716-01 (Soil)

8/31/09 9:35

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.057	0.057	0.014	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 16:50	EPA 8270C	
Alachlor	<0.057	0.057	0.010	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 16:50	EPA 8270C	
Atrazine	<0.057	0.057	0.014	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 16:50	EPA 8270C	
Chlorpyrifos	<0.057	0.057	0.010	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 16:50	EPA 8270C	
Cyanazine	<0.057	0.057	0.011	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 16:50	EPA 8270C	
Deisopropylatrazine	<0.057	0.057	0.011	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 16:50	EPA 8270C	
Desethylatrazine	<0.057	0.057	0.016	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 16:50	EPA 8270C	
Dimethenamid	<0.057	0.057	0.0086	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 16:50	EPA 8270C	
EPTC	<0.057	0.057	0.0086	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 16:50	EPA 8270C	
Ethalfluralin	<0.057	0.057	0.020	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 16:50	EPA 8270C	
Fonofos	<0.057	0.057	0.0057	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 16:50	EPA 8270C	
Metolachlor	<0.057	0.057	0.0043	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 16:50	EPA 8270C	
Metribuzin	<0.057	0.057	0.013	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 16:50	EPA 8270C	
Pendimethalin	<0.057	0.057	0.023	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 16:50	EPA 8270C	
Phorate	<0.057	0.057	0.0086	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 16:50	EPA 8270C	
Prometon	<0.057	0.057	0.0086	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 16:50	EPA 8270C	
Propachlor	<0.057	0.057	0.013	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 16:50	EPA 8270C	
Propazine	<0.057	0.057	0.010	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 16:50	EPA 8270C	
Simazine	<0.057	0.057	0.013	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 16:50	EPA 8270C	
Terbufos	<0.057	0.057	0.013	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 16:50	EPA 8270C	
Triallate	<0.057	0.057	0.0072	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 16:50	EPA 8270C	
Trifluralin	<0.057	0.057	0.020	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 16:50	EPA 8270C	
Surr: Atrazine-d5	*78.8 %*	*Limits: 50-125%*			*B9I0168*	*9/10/09 9:15*	*9/14/09 16:50*	*EPA 8270C*	
Surr: Diazinon-d10	*83.0 %*	*Limits: 35-120%*			*B9I0168*	*9/10/09 9:15*	*9/14/09 16:50*	*EPA 8270C*	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-SS2-0.5'

0904716-01 (Soil)

8/31/09 9:35

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.059	0.059	0.011	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 16:17	EPA 8270C	
2,4,5-T.P.	<0.059	0.059	0.0082	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 16:17	EPA 8270C	
2,4-D	<0.059	0.059	0.014	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 16:17	EPA 8270C	
2,4-D.B.	<0.059	0.059	0.013	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 16:17	EPA 8270C	
Bentazon	<0.059	0.059	0.011	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 16:17	EPA 8270C	
Dicamba	<0.059	0.059	0.0094	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 16:17	EPA 8270C	
Dinoseb	<0.059	0.059	0.0059	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 16:17	EPA 8270C	
M.C.P.A.	<0.059	0.059	0.016	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 16:17	EPA 8270C	
Pentachlorophenol	<0.059	0.059	0.0082	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 16:17	EPA 8270C	
Picloram	<0.059	0.059	0.013	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 16:17	EPA 8270C	qn
Triclopyr	<0.059	0.059	0.0070	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 16:17	EPA 8270C	
Surr: D.C.A.A.	*84.8 %*	*Limits: 50-125%*			*B9I0256*	*9/14/09 9:00*	*9/17/09 16:17*	*EPA 8270C*	

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-SS1-0.5'

0904716-02 (Soil)

8/31/09 10:50

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**82**	0.050	0.010	% Wt	B9I0073	9/3/09 12:00	9/4/09 9:36	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.030	0.030	0.0018	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:09	EPA 8081A	
4,4'-DDE	<0.030	0.030	0.0031	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:34	EPA 8081A	
4,4'-DDT	<0.030	0.030	0.0027	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:34	EPA 8081A	
Aldrin	<0.030	0.030	0.0038	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:09	EPA 8081A	
alpha-BHC	<0.030	0.030	0.0027	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:09	EPA 8081A	
alpha-Chlordane	<0.030	0.030	0.0024	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:09	EPA 8081A	
beta-BHC	<0.030	0.030	0.0027	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:09	EPA 8081A	
delta-BHC	<0.030	0.030	0.0021	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:09	EPA 8081A	
Dieldrin	<0.030	0.030	0.0026	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:09	EPA 8081A	
Endosulfan I	<0.030	0.030	0.0033	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:09	EPA 8081A	
Endosulfan II	<0.030	0.030	0.0025	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:09	EPA 8081A	
Endosulfan Sulfate	<0.030	0.030	0.0027	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:09	EPA 8081A	
Endrin	<0.030	0.030	0.0033	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:09	EPA 8081A	
Endrin Aldehyde	<0.030	0.030	0.011	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:09	EPA 8081A	
Endrin Ketone	<0.030	0.030	0.0037	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:09	EPA 8081A	
gamma-BHC	<0.030	0.030	0.0030	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:09	EPA 8081A	
gamma-Chlordane	<0.030	0.030	0.0020	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:09	EPA 8081A	
Heptachlor	<0.030	0.030	0.0064	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:09	EPA 8081A	
Heptachlor Epoxide	<0.030	0.030	0.0051	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:09	EPA 8081A	
Methoxychlor	<0.030	0.030	0.0025	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:09	EPA 8081A	
Toxaphene	<0.59	0.59	0.11	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:09	EPA 8081A	
Surr: DBC	*91.8 %*	*Limits: 40-160%*			*B9I0141*	*9/8/09 14:58*	*9/10/09 0:34*	*EPA 8081A*	
Surr: TCMX	*82.4 %*	*Limits: 60-130%*			*B9I0141*	*9/8/09 14:58*	*9/10/09 0:09*	*EPA 8081A*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904716
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-SS1-0.5'

0904716-02 (Soil)

8/31/09 10:50

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.057	0.057	0.014	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:16	EPA 8270C	
Alachlor	<0.057	0.057	0.0099	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:16	EPA 8270C	
Atrazine	<0.057	0.057	0.014	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:16	EPA 8270C	
Chlorpyrifos	<0.057	0.057	0.0099	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:16	EPA 8270C	
Cyanazine	<0.057	0.057	0.011	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:16	EPA 8270C	
Deisopropylatrazine	<0.057	0.057	0.011	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:16	EPA 8270C	
Desethylatrazine	<0.057	0.057	0.016	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:16	EPA 8270C	
Dimethenamid	<0.057	0.057	0.0085	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:16	EPA 8270C	
EPTC	<0.057	0.057	0.0085	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:16	EPA 8270C	
Ethalfluralin	<0.057	0.057	0.020	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:16	EPA 8270C	
Fonofos	<0.057	0.057	0.0057	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:16	EPA 8270C	
Metolachlor	<0.057	0.057	0.0042	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:16	EPA 8270C	
Metribuzin	<0.057	0.057	0.013	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:16	EPA 8270C	
Pendimethalin	<0.057	0.057	0.023	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:16	EPA 8270C	
Phorate	<0.057	0.057	0.0085	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:16	EPA 8270C	
Prometon	<0.057	0.057	0.0085	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:16	EPA 8270C	
Propachlor	<0.057	0.057	0.013	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:16	EPA 8270C	
Propazine	<0.057	0.057	0.0099	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:16	EPA 8270C	
Simazine	<0.057	0.057	0.013	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:16	EPA 8270C	
Terbufos	<0.057	0.057	0.013	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:16	EPA 8270C	
Triallate	<0.057	0.057	0.0071	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:16	EPA 8270C	
Trifluralin	<0.057	0.057	0.020	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:16	EPA 8270C	
Surr: Atrazine-d5	*76.8 %*	*Limits: 50-125%*			*B9I0168*	*9/10/09 9:15*	*9/14/09 17:16*	*EPA 8270C*	
Surr: Diazinon-d10	*73.5 %*	*Limits: 35-120%*			*B9I0168*	*9/10/09 9:15*	*9/14/09 17:16*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904716
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-SS1-0.5'

0904716-02 (Soil)

8/31/09 10:50

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.061	0.061	0.011	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 16:42	EPA 8270C	
2,4,5-T.P.	<0.061	0.061	0.0085	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 16:42	EPA 8270C	
2,4-D	<0.061	0.061	0.015	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 16:42	EPA 8270C	
2,4-D.B.	<0.061	0.061	0.013	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 16:42	EPA 8270C	
Bentazon	<0.061	0.061	0.011	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 16:42	EPA 8270C	
Dicamba	<0.061	0.061	0.0097	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 16:42	EPA 8270C	
Dinoseb	<0.061	0.061	0.0061	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 16:42	EPA 8270C	
M.C.P.A.	<0.061	0.061	0.017	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 16:42	EPA 8270C	
Pentachlorophenol	<0.061	0.061	0.0085	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 16:42	EPA 8270C	
Picloram	<0.061	0.061	0.013	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 16:42	EPA 8270C	qn
Triclopyr	<0.061	0.061	0.0073	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 16:42	EPA 8270C	
Surr: D.C.A.A.	*78.4 %*	*Limits: 50-125%*			*B9I0256*	*9/14/09 9:00*	*9/17/09 16:42*	*EPA 8270C*	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-SS4-0.5'

0904716-03 (Soil)

8/31/09 11:45

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**87**	0.050	0.010	% Wt	B9I0073	9/3/09 12:00	9/4/09 9:36	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.029	0.029	0.0017	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:34	EPA 8081A	
4,4'-DDE	<0.029	0.029	0.0030	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:34	EPA 8081A	
4,4'-DDT	<0.029	0.029	0.0026	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:00	EPA 8081A	
Aldrin	<0.029	0.029	0.0037	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:34	EPA 8081A	
alpha-BHC	<0.029	0.029	0.0026	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:34	EPA 8081A	
alpha-Chlordane	**0.084**	0.029	0.0023	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:34	EPA 8081A	
beta-BHC	<0.029	0.029	0.0026	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:34	EPA 8081A	
delta-BHC	<0.029	0.029	0.0021	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:34	EPA 8081A	
Dieldrin	<0.029	0.029	0.0025	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:34	EPA 8081A	
Endosulfan I	<0.029	0.029	0.0032	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:34	EPA 8081A	
Endosulfan II	<0.029	0.029	0.0024	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:34	EPA 8081A	
Endosulfan Sulfate	<0.029	0.029	0.0026	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:34	EPA 8081A	
Endrin	<0.029	0.029	0.0032	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:00	EPA 8081A	
Endrin Aldehyde	<0.029	0.029	0.011	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:34	EPA 8081A	
Endrin Ketone	<0.029	0.029	0.0036	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:34	EPA 8081A	
gamma-BHC	<0.029	0.029	0.0029	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:34	EPA 8081A	
gamma-Chlordane	<0.029	0.029	0.0019	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:00	EPA 8081A	
Heptachlor	<0.029	0.029	0.0062	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:34	EPA 8081A	
Heptachlor Epoxide	<0.029	0.029	0.0049	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:34	EPA 8081A	
Methoxychlor	<0.029	0.029	0.0024	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:00	EPA 8081A	
Toxaphene	<0.57	0.57	0.11	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 0:34	EPA 8081A	
Surr: DBC	*90.7 %*	*Limits: 40-160%*			*B9I0141*	*9/8/09 14:58*	*9/10/09 1:00*	*EPA 8081A*	
Surr: TCMX	*80.4 %*	*Limits: 60-130%*			*B9I0141*	*9/8/09 14:58*	*9/10/09 1:00*	*EPA 8081A*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904716
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-SS4-0.5'

0904716-03 (Soil)

8/31/09 11:45

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.054	0.054	0.014	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:41	EPA 8270C	
Alachlor	<0.054	0.054	0.0095	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:41	EPA 8270C	
Atrazine	<0.054	0.054	0.014	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:41	EPA 8270C	
Chlorpyrifos	<0.054	0.054	0.0095	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:41	EPA 8270C	
Cyanazine	<0.054	0.054	0.011	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:41	EPA 8270C	
Deisopropylatrazine	<0.054	0.054	0.011	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:41	EPA 8270C	
Desethylatrazine	<0.054	0.054	0.015	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:41	EPA 8270C	
Dimethenamid	<0.054	0.054	0.0081	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:41	EPA 8270C	
EPTC	<0.054	0.054	0.0081	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:41	EPA 8270C	
Ethalfluralin	<0.054	0.054	0.019	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:41	EPA 8270C	
Fonofos	<0.054	0.054	0.0054	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:41	EPA 8270C	
Metolachlor	<0.054	0.054	0.0041	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:41	EPA 8270C	
Metribuzin	<0.054	0.054	0.012	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:41	EPA 8270C	
Pendimethalin	<0.054	0.054	0.022	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:41	EPA 8270C	
Phorate	<0.054	0.054	0.0081	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:41	EPA 8270C	
Prometon	<0.054	0.054	0.0081	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:41	EPA 8270C	
Propachlor	<0.054	0.054	0.012	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:41	EPA 8270C	
Propazine	<0.054	0.054	0.0095	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:41	EPA 8270C	
Simazine	<0.054	0.054	0.012	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:41	EPA 8270C	
Terbufos	<0.054	0.054	0.012	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:41	EPA 8270C	
Triallate	<0.054	0.054	0.0068	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:41	EPA 8270C	
Trifluralin	<0.054	0.054	0.019	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 17:41	EPA 8270C	
Surr: Atrazine-d5	*79.4 %*	*Limits: 50-125%*			*B9I0168*	*9/10/09 9:15*	*9/14/09 17:41*	*EPA 8270C*	
Surr: Diazinon-d10	*77.3 %*	*Limits: 35-120%*			*B9I0168*	*9/10/09 9:15*	*9/14/09 17:41*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904716
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-SS4-0.5'

0904716-03 (Soil)

8/31/09 11:45

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.057	0.057	0.010	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 17:07	EPA 8270C	
2,4,5-T.P.	<0.057	0.057	0.0080	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 17:07	EPA 8270C	
2,4-D	<0.057	0.057	0.014	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 17:07	EPA 8270C	
2,4-D.B.	<0.057	0.057	0.013	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 17:07	EPA 8270C	
Bentazon	<0.057	0.057	0.010	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 17:07	EPA 8270C	
Dicamba	<0.057	0.057	0.0092	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 17:07	EPA 8270C	
Dinoseb	<0.057	0.057	0.0057	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 17:07	EPA 8270C	
M.C.P.A.	<0.057	0.057	0.016	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 17:07	EPA 8270C	
Pentachlorophenol	<0.057	0.057	0.0080	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 17:07	EPA 8270C	
Picloram	<0.057	0.057	0.013	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 17:07	EPA 8270C	qn
Triclopyr	<0.057	0.057	0.0069	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 17:07	EPA 8270C	
Surr: D.C.A.A.	*76.0 %*	*Limits: 50-125%*			*B9I0256*	*9/14/09 9:00*	*9/17/09 17:07*	*EPA 8270C*	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-SS3-0.5'

0904716-04 (Soil)

8/31/09 13:25

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**79**	0.050	0.010	% Wt	B9I0073	9/3/09 12:00	9/4/09 9:36	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.030	0.030	0.0018	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:00	EPA 8081A	
4,4'-DDE	<0.030	0.030	0.0031	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:26	EPA 8081A	
4,4'-DDT	<0.030	0.030	0.0028	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:26	EPA 8081A	
Aldrin	<0.030	0.030	0.0038	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:00	EPA 8081A	
alpha-BHC	<0.030	0.030	0.0028	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:00	EPA 8081A	
alpha-Chlordane	<0.030	0.030	0.0024	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:00	EPA 8081A	
beta-BHC	<0.030	0.030	0.0028	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:00	EPA 8081A	
delta-BHC	<0.030	0.030	0.0022	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:00	EPA 8081A	
Dieldrin	<0.030	0.030	0.0026	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:00	EPA 8081A	
Endosulfan I	<0.030	0.030	0.0034	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:00	EPA 8081A	
Endosulfan II	<0.030	0.030	0.0025	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:00	EPA 8081A	
Endosulfan Sulfate	<0.030	0.030	0.0028	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:00	EPA 8081A	
Endrin	<0.030	0.030	0.0034	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:00	EPA 8081A	
Endrin Aldehyde	<0.030	0.030	0.012	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:00	EPA 8081A	
Endrin Ketone	<0.030	0.030	0.0037	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:00	EPA 8081A	
gamma-BHC	<0.030	0.030	0.0030	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:00	EPA 8081A	
gamma-Chlordane	<0.030	0.030	0.0020	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:00	EPA 8081A	
Heptachlor	<0.030	0.030	0.0065	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:00	EPA 8081A	
Heptachlor Epoxide	<0.030	0.030	0.0052	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:00	EPA 8081A	
Methoxychlor	<0.030	0.030	0.0025	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:00	EPA 8081A	
Toxaphene	<0.60	0.60	0.12	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:00	EPA 8081A	
Surr: DBC	*79.5 %*	*Limits: 40-160%*			*B9I0141*	*9/8/09 14:58*	*9/10/09 1:26*	*EPA 8081A*	
Surr: TCMX	*75.1 %*	*Limits: 60-130%*			*B9I0141*	*9/8/09 14:58*	*9/10/09 1:00*	*EPA 8081A*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904716
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-SS3-0.5'

0904716-04 (Soil)

8/31/09 13:25

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.063	0.063	0.016	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:07	EPA 8270C	
Alachlor	<0.063	0.063	0.011	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:07	EPA 8270C	
Atrazine	<0.063	0.063	0.016	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:07	EPA 8270C	
Chlorpyrifos	<0.063	0.063	0.011	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:07	EPA 8270C	
Cyanazine	<0.063	0.063	0.013	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:07	EPA 8270C	
Deisopropylatrazine	<0.063	0.063	0.013	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:07	EPA 8270C	
Desethylatrazine	<0.063	0.063	0.017	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:07	EPA 8270C	
Dimethenamid	<0.063	0.063	0.0094	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:07	EPA 8270C	
EPTC	<0.063	0.063	0.0094	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:07	EPA 8270C	
Ethalfluralin	<0.063	0.063	0.022	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:07	EPA 8270C	
Fonofos	<0.063	0.063	0.0063	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:07	EPA 8270C	
Metolachlor	<0.063	0.063	0.0047	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:07	EPA 8270C	
Metribuzin	<0.063	0.063	0.014	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:07	EPA 8270C	
Pendimethalin	<0.063	0.063	0.025	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:07	EPA 8270C	
Phorate	<0.063	0.063	0.0094	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:07	EPA 8270C	
Prometon	<0.063	0.063	0.0094	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:07	EPA 8270C	
Propachlor	<0.063	0.063	0.014	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:07	EPA 8270C	
Propazine	<0.063	0.063	0.011	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:07	EPA 8270C	
Simazine	<0.063	0.063	0.014	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:07	EPA 8270C	
Terbufos	<0.063	0.063	0.014	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:07	EPA 8270C	
Triallate	<0.063	0.063	0.0078	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:07	EPA 8270C	
Trifluralin	<0.063	0.063	0.022	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:07	EPA 8270C	
Surr: Atrazine-d5	*79.6 %*	*Limits: 50-125%*			*B9I0168*	*9/10/09 9:15*	*9/14/09 18:07*	*EPA 8270C*	
Surr: Diazinon-d10	*73.3 %*	*Limits: 35-120%*			*B9I0168*	*9/10/09 9:15*	*9/14/09 18:07*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904716
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-SS3-0.5'

0904716-04 (Soil)

8/31/09 13:25

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.063	0.063	0.011	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 17:32	EPA 8270C	
2,4,5-T.P.	<0.063	0.063	0.0088	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 17:32	EPA 8270C	
2,4-D	<0.063	0.063	0.015	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 17:32	EPA 8270C	
2,4-D.B.	<0.063	0.063	0.014	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 17:32	EPA 8270C	
Bentazon	<0.063	0.063	0.011	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 17:32	EPA 8270C	
Dicamba	<0.063	0.063	0.010	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 17:32	EPA 8270C	
Dinoseb	<0.063	0.063	0.0063	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 17:32	EPA 8270C	
M.C.P.A.	<0.063	0.063	0.018	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 17:32	EPA 8270C	
Pentachlorophenol	<0.063	0.063	0.0088	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 17:32	EPA 8270C	
Picloram	<0.063	0.063	0.014	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 17:32	EPA 8270C	qn
Triclopyr	<0.063	0.063	0.0076	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 17:32	EPA 8270C	
Surr: D.C.A.A.	*71.4 %*	*Limits: 50-125%*			*B9I0256*	*9/14/09 9:00*	*9/17/09 17:32*	*EPA 8270C*	

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UMP018519

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904716
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-SS5-0.5'

0904716-05 (Soil)

8/31/09 15:30

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**79**	0.050	0.010	% Wt	B9I0073	9/3/09 12:00	9/4/09 9:36	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.030	0.030	0.0018	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:26	EPA 8081A	
4,4'-DDE	<0.030	0.030	0.0031	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:26	EPA 8081A	
4,4'-DDT	<0.030	0.030	0.0027	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:52	EPA 8081A	
Aldrin	<0.030	0.030	0.0038	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:26	EPA 8081A	
alpha-BHC	<0.030	0.030	0.0027	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:26	EPA 8081A	
alpha-Chlordane	<0.030	0.030	0.0024	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:26	EPA 8081A	
beta-BHC	<0.030	0.030	0.0027	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:26	EPA 8081A	
delta-BHC	<0.030	0.030	0.0021	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:26	EPA 8081A	
Dieldrin	<0.030	0.030	0.0026	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:26	EPA 8081A	
Endosulfan I	<0.030	0.030	0.0033	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:26	EPA 8081A	
Endosulfan II	<0.030	0.030	0.0025	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:26	EPA 8081A	
Endosulfan Sulfate	<0.030	0.030	0.0027	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:26	EPA 8081A	
Endrin	<0.030	0.030	0.0033	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:26	EPA 8081A	
Endrin Aldehyde	<0.030	0.030	0.011	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:26	EPA 8081A	
Endrin Ketone	<0.030	0.030	0.0037	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:26	EPA 8081A	
gamma-BHC	<0.030	0.030	0.0030	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:26	EPA 8081A	
gamma-Chlordane	<0.030	0.030	0.0020	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:26	EPA 8081A	
Heptachlor	<0.030	0.030	0.0064	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:26	EPA 8081A	
Heptachlor Epoxide	<0.030	0.030	0.0051	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:26	EPA 8081A	
Methoxychlor	<0.030	0.030	0.0025	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:26	EPA 8081A	
Toxaphene	<0.59	0.59	0.11	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:26	EPA 8081A	
Surr: DBC	*84.3 %*	*Limits: 40-160%*			*B9I0141*	*9/8/09 14:58*	*9/10/09 1:52*	*EPA 8081A*	
Surr: TCMX	*77.8 %*	*Limits: 60-130%*			*B9I0141*	*9/8/09 14:58*	*9/10/09 1:26*	*EPA 8081A*	

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.058	0.058	0.015	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:33	EPA 8270C	
Alachlor	<0.058	0.058	0.010	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:33	EPA 8270C	
Atrazine	<0.058	0.058	0.015	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:33	EPA 8270C	
Chlorpyrifos	<0.058	0.058	0.010	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:33	EPA 8270C	
Cyanazine	<0.058	0.058	0.012	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:33	EPA 8270C	
Deisopropylatrazine	<0.058	0.058	0.012	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:33	EPA 8270C	
Desethylatrazine	<0.058	0.058	0.016	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:33	EPA 8270C	
Dimethenamid	<0.058	0.058	0.0088	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:33	EPA 8270C	
EPTC	<0.058	0.058	0.0088	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:33	EPA 8270C	
Ethalfluralin	<0.058	0.058	0.020	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:33	EPA 8270C	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904716
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-SS5-0.5'

0904716-05 (Soil)

8/31/09 15:30

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Fonofos	<0.058	0.058	0.0058	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:33	EPA 8270C	
Metolachlor	<0.058	0.058	0.0044	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:33	EPA 8270C	
Metribuzin	<0.058	0.058	0.013	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:33	EPA 8270C	
Pendimethalin	<0.058	0.058	0.023	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:33	EPA 8270C	
Phorate	<0.058	0.058	0.0088	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:33	EPA 8270C	
Prometon	<0.058	0.058	0.0088	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:33	EPA 8270C	
Propachlor	<0.058	0.058	0.013	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:33	EPA 8270C	
Propazine	<0.058	0.058	0.010	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:33	EPA 8270C	
Simazine	<0.058	0.058	0.013	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:33	EPA 8270C	
Terbufos	<0.058	0.058	0.013	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:33	EPA 8270C	
Triallate	<0.058	0.058	0.0073	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:33	EPA 8270C	
Trifluralin	<0.058	0.058	0.020	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:33	EPA 8270C	
Surr: Atrazine-d5	*79.8 %*	*Limits: 50-125%*			*B9I0168*	*9/10/09 9:15*	*9/14/09 18:33*	*EPA 8270C*	
Surr: Diazinon-d10	*75.6 %*	*Limits: 35-120%*			*B9I0168*	*9/10/09 9:15*	*9/14/09 18:33*	*EPA 8270C*	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.061	0.061	0.011	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 17:57	EPA 8270C	
2,4,5-T.P.	<0.061	0.061	0.0086	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 17:57	EPA 8270C	
2,4-D	<0.061	0.061	0.015	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 17:57	EPA 8270C	
2,4-D.B.	<0.061	0.061	0.014	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 17:57	EPA 8270C	
Bentazon	<0.061	0.061	0.011	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 17:57	EPA 8270C	
Dicamba	<0.061	0.061	0.0098	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 17:57	EPA 8270C	
Dinoseb	<0.061	0.061	0.0061	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 17:57	EPA 8270C	
M.C.P.A.	<0.061	0.061	0.017	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 17:57	EPA 8270C	
Pentachlorophenol	<0.061	0.061	0.0086	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 17:57	EPA 8270C	
Picloram	<0.061	0.061	0.014	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 17:57	EPA 8270C	qn
Triclopyr	<0.061	0.061	0.0074	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 17:57	EPA 8270C	
Surr: D.C.A.A.	*74.6 %*	*Limits: 50-125%*			*B9I0256*	*9/14/09 9:00*	*9/17/09 17:57*	*EPA 8270C*	

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UMP018521

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904716
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-SS6-0.5'

0904716-06 (Soil)

8/31/09 15:55

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**83**	0.050	0.010	% Wt	B9I0073	9/3/09 12:00	9/4/09 9:36	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.029	0.029	0.0017	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:52	EPA 8081A	
4,4'-DDE	<0.029	0.029	0.0030	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:52	EPA 8081A	
4,4'-DDT	<0.029	0.029	0.0027	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 2:18	EPA 8081A	
Aldrin	<0.029	0.029	0.0037	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:52	EPA 8081A	
alpha-BHC	<0.029	0.029	0.0027	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:52	EPA 8081A	
alpha-Chlordane	<0.029	0.029	0.0023	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:52	EPA 8081A	
beta-BHC	<0.029	0.029	0.0027	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:52	EPA 8081A	
delta-BHC	<0.029	0.029	0.0021	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:52	EPA 8081A	
Dieldrin	<0.029	0.029	0.0025	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:52	EPA 8081A	
Endosulfan I	<0.029	0.029	0.0032	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:52	EPA 8081A	
Endosulfan II	<0.029	0.029	0.0024	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:52	EPA 8081A	
Endosulfan Sulfate	<0.029	0.029	0.0027	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:52	EPA 8081A	
Endrin	<0.029	0.029	0.0032	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:52	EPA 8081A	
Endrin Aldehyde	<0.029	0.029	0.011	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:52	EPA 8081A	
Endrin Ketone	<0.029	0.029	0.0036	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:52	EPA 8081A	
gamma-BHC	<0.029	0.029	0.0029	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:52	EPA 8081A	
gamma-Chlordane	<0.029	0.029	0.0020	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:52	EPA 8081A	
Heptachlor	<0.029	0.029	0.0063	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:52	EPA 8081A	
Heptachlor Epoxide	<0.029	0.029	0.0050	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:52	EPA 8081A	
Methoxychlor	<0.029	0.029	0.0024	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:52	EPA 8081A	
Toxaphene	<0.58	0.58	0.11	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 1:52	EPA 8081A	
Surr: DBC	*80.1 %*	*Limits: 40-160%*			*B9I0141*	*9/8/09 14:58*	*9/10/09 2:18*	*EPA 8081A*	
Surr: TCMX	*75.4 %*	*Limits: 60-130%*			*B9I0141*	*9/8/09 14:58*	*9/10/09 1:52*	*EPA 8081A*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904716
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-SS6-0.5'

0904716-06 (Soil)

8/31/09 15:55

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.058	0.058	0.014	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:59	EPA 8270C	
Alachlor	<0.058	0.058	0.010	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:59	EPA 8270C	
Atrazine	<0.058	0.058	0.014	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:59	EPA 8270C	
Chlorpyrifos	<0.058	0.058	0.010	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:59	EPA 8270C	
Cyanazine	<0.058	0.058	0.012	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:59	EPA 8270C	
Deisopropylatrazine	<0.058	0.058	0.012	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:59	EPA 8270C	
Desethylatrazine	<0.058	0.058	0.016	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:59	EPA 8270C	
Dimethenamid	<0.058	0.058	0.0086	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:59	EPA 8270C	
EPTC	<0.058	0.058	0.0086	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:59	EPA 8270C	
Ethalfluralin	<0.058	0.058	0.020	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:59	EPA 8270C	
Fonofos	<0.058	0.058	0.0058	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:59	EPA 8270C	
Metolachlor	<0.058	0.058	0.0043	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:59	EPA 8270C	
Metribuzin	<0.058	0.058	0.013	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:59	EPA 8270C	
Pendimethalin	<0.058	0.058	0.023	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:59	EPA 8270C	
Phorate	<0.058	0.058	0.0086	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:59	EPA 8270C	
Prometon	<0.058	0.058	0.0086	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:59	EPA 8270C	
Propachlor	<0.058	0.058	0.013	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:59	EPA 8270C	
Propazine	<0.058	0.058	0.010	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:59	EPA 8270C	
Simazine	<0.058	0.058	0.013	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:59	EPA 8270C	
Terbufos	<0.058	0.058	0.013	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:59	EPA 8270C	
Triallate	<0.058	0.058	0.0072	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:59	EPA 8270C	
Trifluralin	<0.058	0.058	0.020	mg/kg dry	B9I0168	9/10/09 9:15	9/14/09 18:59	EPA 8270C	
Surr: Atrazine-d5	*81.7 %*	*Limits: 50-125%*			*B9I0168*	*9/10/09 9:15*	*9/14/09 18:59*	*EPA 8270C*	
Surr: Diazinon-d10	*78.8 %*	*Limits: 35-120%*			*B9I0168*	*9/10/09 9:15*	*9/14/09 18:59*	*EPA 8270C*	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-SS6-0.5'

0904716-06 (Soil)

8/31/09 15:55

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.061	0.061	0.011	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 18:22	EPA 8270C	
2,4,5-T.P.	<0.061	0.061	0.0085	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 18:22	EPA 8270C	
2,4-D	<0.061	0.061	0.015	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 18:22	EPA 8270C	
2,4-D.B.	<0.061	0.061	0.013	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 18:22	EPA 8270C	
Bentazon	<0.061	0.061	0.011	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 18:22	EPA 8270C	
Dicamba	<0.061	0.061	0.0097	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 18:22	EPA 8270C	
Dinoseb	<0.061	0.061	0.0061	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 18:22	EPA 8270C	
M.C.P.A.	<0.061	0.061	0.017	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 18:22	EPA 8270C	
Pentachlorophenol	<0.061	0.061	0.0085	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 18:22	EPA 8270C	
Picloram	<0.061	0.061	0.013	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 18:22	EPA 8270C	qn
Triclopyr	<0.061	0.061	0.0073	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 18:22	EPA 8270C	
Surr: D.C.A.A.	*72.8 %*	*Limits: 50-125%*			*B9I0256*	*9/14/09 9:00*	*9/17/09 18:22*	*EPA 8270C*	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Classical Chemistry Parameters - Quality Control

Batch B9I0073 - Default Prep GenChem

Method Blank (B9I0073-BLK1)

Prepared: 09/03/09 Analyzed: 09/04/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	<0.050	0.050	0.010	% Wt	NA	NA	NA	NA	NA	NA	

Duplicate (B9I0073-DUP1)

Source: 0904716-01 Prepared: 09/03/09 Analyzed: 09/04/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	81.9	0.050	0.010	% Wt	NA	82.7	NA	NA	0.940	20	

Standard Reference Material (B9I0073-SRM1)

Prepared: 09/03/09 Analyzed: 09/04/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	88.3			% Wt	91.3	NA	96.7	90-110	NA	NA	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0141 - EPA 3545

Method Blank (B9I0141-BLK1)

Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	<0.025	0.025	0.0015	mg/kg	NA	NA	NA	NA	NA	NA	
4,4'-DDE	<0.025	0.025	0.0026	mg/kg	NA	NA	NA	NA	NA	NA	
4,4'-DDT	<0.025	0.025	0.0023	mg/kg	NA	NA	NA	NA	NA	NA	
Aldrin	<0.025	0.025	0.0032	mg/kg	NA	NA	NA	NA	NA	NA	
alpha-BHC	<0.025	0.025	0.0023	mg/kg	NA	NA	NA	NA	NA	NA	
alpha-Chlordane	<0.025	0.025	0.0020	mg/kg	NA	NA	NA	NA	NA	NA	
beta-BHC	<0.025	0.025	0.0023	mg/kg	NA	NA	NA	NA	NA	NA	
delta-BHC	<0.025	0.025	0.0018	mg/kg	NA	NA	NA	NA	NA	NA	
Dieldrin	<0.025	0.025	0.0022	mg/kg	NA	NA	NA	NA	NA	NA	
Endosulfan I	<0.025	0.025	0.0028	mg/kg	NA	NA	NA	NA	NA	NA	
Endosulfan II	<0.025	0.025	0.0021	mg/kg	NA	NA	NA	NA	NA	NA	
Endosulfan Sulfate	<0.025	0.025	0.0023	mg/kg	NA	NA	NA	NA	NA	NA	
Endrin	<0.025	0.025	0.0028	mg/kg	NA	NA	NA	NA	NA	NA	
Endrin Aldehyde	<0.025	0.025	0.0096	mg/kg	NA	NA	NA	NA	NA	NA	
Endrin Ketone	<0.025	0.025	0.0031	mg/kg	NA	NA	NA	NA	NA	NA	
gamma-BHC	<0.025	0.025	0.0025	mg/kg	NA	NA	NA	NA	NA	NA	
gamma-Chlordane	<0.025	0.025	0.0017	mg/kg	NA	NA	NA	NA	NA	NA	
Heptachlor	<0.025	0.025	0.0054	mg/kg	NA	NA	NA	NA	NA	NA	
Heptachlor Epoxide	<0.025	0.025	0.0043	mg/kg	NA	NA	NA	NA	NA	NA	
Methoxychlor	<0.025	0.025	0.0021	mg/kg	NA	NA	NA	NA	NA	NA	
Toxaphene	<0.50	0.50	0.096	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: DBC	*0.206*			mg/kg	*0.248*	*NA*	*83.3*	*40-160*			
Surrogate: TCMX	*0.200*			mg/kg	*0.248*	*NA*	*80.8*	*60-130*			

Laboratory Control Sample (B9I0141-BS1)

Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.213	0.024	0.0014	mg/kg	0.237	NA	89.8	70-130	NA	NA	
4,4'-DDE	0.221	0.024	0.0025	mg/kg	0.237	NA	93.1	70-130	NA	NA	
4,4'-DDT	0.269	0.024	0.0022	mg/kg	0.237	NA	113	70-130	NA	NA	
Aldrin	0.226	0.024	0.0030	mg/kg	0.237	NA	95.3	70-130	NA	NA	
alpha-BHC	0.231	0.024	0.0022	mg/kg	0.237	NA	97.7	70-130	NA	NA	
alpha-Chlordane	0.225	0.024	0.0019	mg/kg	0.237	NA	94.9	70-130	NA	NA	
beta-BHC	0.234	0.024	0.0022	mg/kg	0.237	NA	98.7	70-130	NA	NA	
delta-BHC	0.229	0.024	0.0017	mg/kg	0.237	NA	96.4	70-130	NA	NA	
Dieldrin	0.220	0.024	0.0021	mg/kg	0.237	NA	92.8	70-130	NA	NA	
Endosulfan I	0.224	0.024	0.0027	mg/kg	0.237	NA	94.7	70-130	NA	NA	
Endosulfan II	0.207	0.024	0.0020	mg/kg	0.237	NA	87.5	70-130	NA	NA	
Endosulfan Sulfate	0.220	0.024	0.0022	mg/kg	0.237	NA	93.0	70-130	NA	NA	
Endrin	0.212	0.024	0.0027	mg/kg	0.237	NA	89.3	70-130	NA	NA	
Endrin Aldehyde	0.232	0.024	0.0091	mg/kg	0.237	NA	97.7	70-130	NA	NA	
Endrin Ketone	0.262	0.024	0.0029	mg/kg	0.237	NA	111	70-130	NA	NA	
gamma-BHC	0.236	0.024	0.0024	mg/kg	0.237	NA	99.6	70-130	NA	NA	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0141 - EPA 3545

Laboratory Control Sample (B9I0141-BS1)

Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
gamma-Chlordane	0.229	0.024	0.0016	mg/kg	0.237	NA	96.5	70-130	NA	NA	
Heptachlor	0.247	0.024	0.0051	mg/kg	0.237	NA	104	70-130	NA	NA	
Heptachlor Epoxide	0.227	0.024	0.0041	mg/kg	0.237	NA	95.9	70-130	NA	NA	
Methoxychlor	0.259	0.024	0.0020	mg/kg	0.237	NA	109	70-130	NA	NA	
Surrogate: DBC	*0.219*			mg/kg	*0.237*	*NA*	*92.5*	*40-160*			
Surrogate: TCMX	*0.213*			mg/kg	*0.237*	*NA*	*90.0*	*60-130*			

Laboratory Control Sample Duplicate (B9I0141-BSD1)

Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.240	0.024	0.0015	mg/kg	0.244	NA	98.6	70-130	12.1	25	
4,4'-DDE	0.245	0.024	0.0025	mg/kg	0.244	NA	100	70-130	10.3	25	
4,4'-DDT	0.276	0.024	0.0022	mg/kg	0.244	NA	113	70-130	2.78	25	
Aldrin	0.251	0.024	0.0031	mg/kg	0.244	NA	103	70-130	10.6	25	
alpha-BHC	0.258	0.024	0.0022	mg/kg	0.244	NA	106	70-130	10.8	25	
alpha-Chlordane	0.248	0.024	0.0019	mg/kg	0.244	NA	102	70-130	9.89	25	
beta-BHC	0.261	0.024	0.0022	mg/kg	0.244	NA	107	70-130	11.2	25	
delta-BHC	0.257	0.024	0.0018	mg/kg	0.244	NA	106	70-130	11.8	25	
Dieldrin	0.248	0.024	0.0021	mg/kg	0.244	NA	102	70-130	11.8	25	
Endosulfan I	0.245	0.024	0.0027	mg/kg	0.244	NA	101	70-130	8.95	25	
Endosulfan II	0.231	0.024	0.0020	mg/kg	0.244	NA	95.0	70-130	11.0	25	
Endosulfan Sulfate	0.236	0.024	0.0022	mg/kg	0.244	NA	96.8	70-130	6.80	25	
Endrin	0.236	0.024	0.0027	mg/kg	0.244	NA	97.0	70-130	11.0	25	
Endrin Aldehyde	0.249	0.024	0.0094	mg/kg	0.244	NA	102	70-130	7.21	25	
Endrin Ketone	0.254	0.024	0.0030	mg/kg	0.244	NA	104	70-130	3.01	25	
gamma-BHC	0.263	0.024	0.0024	mg/kg	0.244	NA	108	70-130	10.8	25	
gamma-Chlordane	0.254	0.024	0.0017	mg/kg	0.244	NA	104	70-130	10.3	25	
Heptachlor	0.272	0.024	0.0053	mg/kg	0.244	NA	112	70-130	9.61	25	
Heptachlor Epoxide	0.253	0.024	0.0042	mg/kg	0.244	NA	104	70-130	10.6	25	
Methoxychlor	0.265	0.024	0.0020	mg/kg	0.244	NA	109	70-130	2.12	25	
Surrogate: DBC	*0.228*			mg/kg	*0.244*	*NA*	*93.4*	*40-160*			
Surrogate: TCMX	*0.233*			mg/kg	*0.244*	*NA*	*95.7*	*60-130*			

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0141 - EPA 3545

Matrix Spike (B9I0141-MS1)

Source: 0904744-01 Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.211	0.030	0.0018	mg/kg dry	0.295	ND	71.3	50-130	NA	NA	
4,4'-DDE	0.215	0.030	0.0031	mg/kg dry	0.295	ND	72.9	50-130	NA	NA	
4,4'-DDT	0.250	0.030	0.0027	mg/kg dry	0.295	ND	84.7	50-130	NA	NA	
Aldrin	0.223	0.030	0.0038	mg/kg dry	0.295	ND	75.5	50-130	NA	NA	
alpha-BHC	0.236	0.030	0.0027	mg/kg dry	0.295	ND	79.9	50-130	NA	NA	
alpha-Chlordane	0.221	0.030	0.0024	mg/kg dry	0.295	ND	75.0	50-130	NA	NA	
beta-BHC	0.238	0.030	0.0027	mg/kg dry	0.295	ND	80.5	50-130	NA	NA	
delta-BHC	0.230	0.030	0.0021	mg/kg dry	0.295	ND	77.7	50-130	NA	NA	
Dieldrin	0.205	0.030	0.0026	mg/kg dry	0.295	ND	69.5	50-130	NA	NA	
Endosulfan I	0.223	0.030	0.0033	mg/kg dry	0.295	ND	75.5	50-130	NA	NA	
Endosulfan II	0.200	0.030	0.0025	mg/kg dry	0.295	ND	67.7	50-130	NA	NA	
Endosulfan Sulfate	0.220	0.030	0.0027	mg/kg dry	0.295	ND	74.7	50-130	NA	NA	
Endrin	0.207	0.030	0.0033	mg/kg dry	0.295	ND	70.1	50-130	NA	NA	
Endrin Aldehyde	0.178	0.030	0.011	mg/kg dry	0.295	ND	60.4	50-130	NA	NA	
Endrin Ketone	0.292	0.030	0.0037	mg/kg dry	0.295	ND	98.9	50-130	NA	NA	
gamma-BHC	0.240	0.030	0.0030	mg/kg dry	0.295	ND	81.2	50-130	NA	NA	
gamma-Chlordane	0.225	0.030	0.0020	mg/kg dry	0.295	ND	76.0	50-130	NA	NA	
Heptachlor	0.238	0.030	0.0064	mg/kg dry	0.295	ND	80.6	50-130	NA	NA	
Heptachlor Epoxide	0.227	0.030	0.0051	mg/kg dry	0.295	ND	76.8	50-130	NA	NA	
Methoxychlor	0.249	0.030	0.0025	mg/kg dry	0.295	ND	84.2	50-130	NA	NA	
Surrogate: DBC	*0.226*			mg/kg dry	*0.295*	*NA*	*76.6*	*40-160*			
Surrogate: TCMX	*0.214*			mg/kg dry	*0.295*	*NA*	*72.5*	*60-130*			

Matrix Spike Duplicate (B9I0141-MSD1)

Source: 0904744-01 Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.216	0.028	0.0017	mg/kg dry	0.278	ND	77.8	50-130	2.64	25	
4,4'-DDE	0.216	0.028	0.0029	mg/kg dry	0.278	ND	77.9	50-130	0.544	25	
4,4'-DDT	0.261	0.028	0.0026	mg/kg dry	0.278	ND	93.9	50-130	4.28	25	
Aldrin	0.232	0.028	0.0036	mg/kg dry	0.278	ND	83.5	50-130	4.03	25	
alpha-BHC	0.243	0.028	0.0026	mg/kg dry	0.278	ND	87.3	50-130	2.82	25	
alpha-Chlordane	0.221	0.028	0.0022	mg/kg dry	0.278	ND	79.6	50-130	0.114	25	
beta-BHC	0.244	0.028	0.0026	mg/kg dry	0.278	ND	87.9	50-130	2.74	25	
delta-BHC	0.232	0.028	0.0020	mg/kg dry	0.278	ND	83.6	50-130	1.23	25	
Dieldrin	0.217	0.028	0.0024	mg/kg dry	0.278	ND	78.0	50-130	5.51	25	
Endosulfan I	0.226	0.028	0.0031	mg/kg dry	0.278	ND	81.5	50-130	1.52	25	
Endosulfan II	0.202	0.028	0.0023	mg/kg dry	0.278	ND	72.8	50-130	1.24	25	
Endosulfan Sulfate	0.222	0.028	0.0026	mg/kg dry	0.278	ND	80.0	50-130	0.804	25	
Endrin	0.211	0.028	0.0031	mg/kg dry	0.278	ND	75.9	50-130	1.80	25	
Endrin Aldehyde	0.158	0.028	0.011	mg/kg dry	0.278	ND	56.9	50-130	12.0	25	
Endrin Ketone	0.279	0.028	0.0034	mg/kg dry	0.278	ND	100	50-130	4.75	25	
gamma-BHC	0.248	0.028	0.0028	mg/kg dry	0.278	ND	89.1	50-130	3.21	25	
gamma-Chlordane	0.230	0.028	0.0019	mg/kg dry	0.278	ND	82.7	50-130	2.27	25	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904716
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0141 - EPA 3545

Matrix Spike Duplicate (B9I0141-MSD1) **Source: 0904744-01** Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Heptachlor	0.249	0.028	0.0060	mg/kg dry	0.278	ND	89.8	50-130	4.68	25	
Heptachlor Epoxide	0.232	0.028	0.0048	mg/kg dry	0.278	ND	83.4	50-130	2.15	25	
Methoxychlor	0.259	0.028	0.0023	mg/kg dry	0.278	ND	93.1	50-130	3.96	25	
Surrogate: DBC	*0.224*			mg/kg dry	*0.278*	*NA*	*80.5*	*40-160*			
Surrogate: TCMX	*0.217*			mg/kg dry	*0.278*	*NA*	*78.0*	*60-130*			

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0168 - EPA 3545

Method Blank (B9I0168-BLK1)

Prepared: 09/10/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	<0.040	0.040	0.010	mg/kg	NA	NA	NA	NA	NA	NA	
Alachlor	<0.040	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Atrazine	<0.040	0.040	0.010	mg/kg	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	<0.040	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Cyanazine	<0.040	0.040	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	<0.040	0.040	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Desethylatrazine	<0.040	0.040	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Dimethenamid	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
EPTC	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Ethalfluralin	<0.040	0.040	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Fonofos	<0.040	0.040	0.0040	mg/kg	NA	NA	NA	NA	NA	NA	
Metolachlor	<0.040	0.040	0.0030	mg/kg	NA	NA	NA	NA	NA	NA	
Metribuzin	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Pendimethalin	<0.040	0.040	0.016	mg/kg	NA	NA	NA	NA	NA	NA	
Phorate	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Prometon	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Propachlor	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Propazine	<0.040	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Simazine	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Terbufos	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Triallate	<0.040	0.040	0.0050	mg/kg	NA	NA	NA	NA	NA	NA	
Trifluralin	<0.040	0.040	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: Atrazine-d5	*0.273*			mg/kg	*0.332*	*NA*	*82.2*	*50-125*			
Surrogate: Diazinon-d10	*0.272*			mg/kg	*0.332*	*NA*	*81.9*	*35-120*			

Laboratory Control Sample (B9I0168-BS1)

Prepared: 09/10/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.291	0.040	0.010	mg/kg	0.328	NA	88.5	70-120	NA	NA	
Alachlor	0.301	0.040	0.0070	mg/kg	0.328	NA	91.6	70-120	NA	NA	
Atrazine	0.301	0.040	0.010	mg/kg	0.328	NA	91.6	70-120	NA	NA	
Chlorpyrifos	0.287	0.040	0.0070	mg/kg	0.328	NA	87.4	70-120	NA	NA	
Cyanazine	0.301	0.040	0.0080	mg/kg	0.328	NA	91.7	70-120	NA	NA	
Deisopropylatrazine	0.284	0.040	0.0080	mg/kg	0.328	NA	86.5	65-115	NA	NA	
Desethylatrazine	0.303	0.040	0.011	mg/kg	0.328	NA	92.3	70-120	NA	NA	
Dimethenamid	0.309	0.040	0.0060	mg/kg	0.328	NA	94.0	70-120	NA	NA	
EPTC	0.277	0.040	0.0060	mg/kg	0.328	NA	84.4	60-105	NA	NA	
Ethalfluralin	0.295	0.040	0.014	mg/kg	0.328	NA	89.8	70-120	NA	NA	
Fonofos	0.294	0.040	0.0040	mg/kg	0.328	NA	89.7	70-115	NA	NA	
Metolachlor	0.302	0.040	0.0030	mg/kg	0.328	NA	92.0	70-120	NA	NA	
Metribuzin	0.301	0.040	0.0090	mg/kg	0.328	NA	91.6	70-120	NA	NA	
Pendimethalin	0.323	0.040	0.016	mg/kg	0.328	NA	98.4	70-120	NA	NA	
Phorate	0.299	0.040	0.0060	mg/kg	0.328	NA	91.2	70-115	NA	NA	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0168 - EPA 3545

Laboratory Control Sample (B9I0168-BS1)

Prepared: 09/10/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	0.307	0.040	0.0060	mg/kg	0.328	NA	93.5	70-120	NA	NA	
Propachlor	0.301	0.040	0.0090	mg/kg	0.328	NA	91.6	70-115	NA	NA	
Propazine	0.305	0.040	0.0070	mg/kg	0.328	NA	92.8	70-120	NA	NA	
Simazine	0.362	0.040	0.0090	mg/kg	0.328	NA	110	60-115	NA	NA	
Terbufos	0.298	0.040	0.0090	mg/kg	0.328	NA	90.9	70-115	NA	NA	
Triallate	0.294	0.040	0.0050	mg/kg	0.328	NA	89.5	70-115	NA	NA	
Trifluralin	0.300	0.040	0.014	mg/kg	0.328	NA	91.5	70-115	NA	NA	
Surrogate: Atrazine-d5	*0.274*			mg/kg	*0.328*	*NA*	*83.5*	*50-125*			
Surrogate: Diazinon-d10	*0.281*			mg/kg	*0.328*	*NA*	*85.5*	*35-120*			

Laboratory Control Sample Duplicate (B9I0168-BSD1)

Prepared: 09/10/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.270	0.039	0.0098	mg/kg	0.325	NA	83.1	70-120	7.24	20	
Alachlor	0.282	0.039	0.0068	mg/kg	0.325	NA	86.7	70-120	6.44	20	
Atrazine	0.280	0.039	0.0098	mg/kg	0.325	NA	86.1	70-120	7.14	20	
Chlorpyrifos	0.269	0.039	0.0068	mg/kg	0.325	NA	82.7	70-120	6.47	20	
Cyanazine	0.280	0.039	0.0078	mg/kg	0.325	NA	86.2	70-120	7.13	20	
Deisopropylatrazine	0.271	0.039	0.0078	mg/kg	0.325	NA	83.4	65-115	4.60	20	
Desethylatrazine	0.281	0.039	0.011	mg/kg	0.325	NA	86.4	70-120	7.55	20	
Dimethenamid	0.285	0.039	0.0059	mg/kg	0.325	NA	87.6	70-120	7.99	20	
EPTC	0.294	0.039	0.0059	mg/kg	0.325	NA	90.5	60-105	6.03	20	
Ethalfluralin	0.289	0.039	0.014	mg/kg	0.325	NA	88.9	70-120	1.95	20	
Fonofos	0.282	0.039	0.0039	mg/kg	0.325	NA	86.6	70-115	4.46	20	
Metolachlor	0.281	0.039	0.0029	mg/kg	0.325	NA	86.3	70-120	7.34	20	
Metribuzin	0.284	0.039	0.0088	mg/kg	0.325	NA	87.2	70-120	5.87	20	
Pendimethalin	0.318	0.039	0.016	mg/kg	0.325	NA	97.8	70-120	1.56	20	
Phorate	0.275	0.039	0.0059	mg/kg	0.325	NA	84.7	70-115	8.34	20	
Prometon	0.290	0.039	0.0059	mg/kg	0.325	NA	89.3	70-120	5.54	20	
Propachlor	0.283	0.039	0.0088	mg/kg	0.325	NA	86.9	70-115	6.21	20	
Propazine	0.294	0.039	0.0068	mg/kg	0.325	NA	90.5	70-120	3.46	20	
Simazine	0.333	0.039	0.0088	mg/kg	0.325	NA	102	60-115	8.47	20	
Terbufos	0.273	0.039	0.0088	mg/kg	0.325	NA	84.0	70-115	8.84	20	
Triallate	0.274	0.039	0.0049	mg/kg	0.325	NA	84.3	70-115	6.93	20	
Trifluralin	0.291	0.039	0.014	mg/kg	0.325	NA	89.5	70-115	3.16	20	
Surrogate: Atrazine-d5	*0.271*			mg/kg	*0.325*	*NA*	*83.3*	*50-125*			
Surrogate: Diazinon-d10	*0.266*			mg/kg	*0.325*	*NA*	*81.7*	*35-120*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904716
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0168 - EPA 3545

Matrix Spike (B9I0168-MS1)

Source: 0904716-04RE1 Prepared: 09/10/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.367	0.062	0.015	mg/kg dry	0.513	ND	71.5	50-120	NA	NA	
Alachlor	0.368	0.062	0.011	mg/kg dry	0.513	ND	71.6	55-120	NA	NA	
Atrazine	0.417	0.062	0.015	mg/kg dry	0.513	ND	81.2	60-120	NA	NA	
Chlorpyrifos	0.281	0.062	0.011	mg/kg dry	0.513	ND	54.8	40-125	NA	NA	
Cyanazine	0.418	0.062	0.012	mg/kg dry	0.513	ND	81.5	55-125	NA	NA	
Deisopropylatrazine	0.388	0.062	0.012	mg/kg dry	0.513	ND	75.5	55-120	NA	NA	
Desethylatrazine	0.418	0.062	0.017	mg/kg dry	0.513	ND	81.5	60-125	NA	NA	
Dimethenamid	0.396	0.062	0.0092	mg/kg dry	0.513	ND	77.1	55-120	NA	NA	
EPTC	0.376	0.062	0.0092	mg/kg dry	0.513	ND	73.2	40-105	NA	NA	
Ethalfluralin	0.299	0.062	0.022	mg/kg dry	0.513	ND	58.3	40-120	NA	NA	
Fonofos	0.348	0.062	0.0062	mg/kg dry	0.513	ND	67.8	45-115	NA	NA	
Metolachlor	0.381	0.062	0.0046	mg/kg dry	0.513	ND	74.2	50-125	NA	NA	
Metribuzin	0.409	0.062	0.014	mg/kg dry	0.513	ND	79.7	55-125	NA	NA	
Pendimethalin	0.327	0.062	0.025	mg/kg dry	0.513	ND	63.7	40-120	NA	NA	
Phorate	0.320	0.062	0.0092	mg/kg dry	0.513	ND	62.3	40-115	NA	NA	
Prometon	0.415	0.062	0.0092	mg/kg dry	0.513	ND	80.8	60-125	NA	NA	
Propachlor	0.416	0.062	0.014	mg/kg dry	0.513	ND	81.1	60-115	NA	NA	
Propazine	0.423	0.062	0.011	mg/kg dry	0.513	ND	82.3	55-120	NA	NA	
Simazine	0.489	0.062	0.014	mg/kg dry	0.513	ND	95.3	50-120	NA	NA	
Terbufos	0.320	0.062	0.014	mg/kg dry	0.513	ND	62.3	40-120	NA	NA	
Triallate	0.293	0.062	0.0077	mg/kg dry	0.513	ND	57.0	40-115	NA	NA	
Trifluralin	0.290	0.062	0.022	mg/kg dry	0.513	ND	56.4	40-115	NA	NA	
Surrogate: Atrazine-d5	*0.385*			mg/kg dry	*0.513*	*NA*	*74.9*	*50-125*			
Surrogate: Diazinon-d10	*0.342*			mg/kg dry	*0.513*	*NA*	*66.7*	*35-120*			

Matrix Spike Duplicate (B9I0168-MSD1)

Source: 0904716-04RE1 Prepared: 09/10/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.336	0.063	0.016	mg/kg dry	0.526	ND	63.9	50-120	8.89	25	
Alachlor	0.336	0.063	0.011	mg/kg dry	0.526	ND	63.9	55-120	9.03	25	
Atrazine	0.396	0.063	0.016	mg/kg dry	0.526	ND	75.3	60-120	5.20	25	
Chlorpyrifos	0.262	0.063	0.011	mg/kg dry	0.526	ND	49.9	40-125	7.02	25	
Cyanazine	0.404	0.063	0.013	mg/kg dry	0.526	ND	76.8	55-125	3.59	25	
Deisopropylatrazine	0.380	0.063	0.013	mg/kg dry	0.526	ND	72.3	55-120	1.99	25	
Desethylatrazine	0.405	0.063	0.017	mg/kg dry	0.526	ND	77.0	60-125	3.33	25	
Dimethenamid	0.376	0.063	0.0095	mg/kg dry	0.526	ND	71.6	55-120	5.05	25	
EPTC	0.352	0.063	0.0095	mg/kg dry	0.526	ND	66.9	40-105	6.65	25	
Ethalfluralin	0.257	0.063	0.022	mg/kg dry	0.526	ND	48.8	40-120	15.4	25	
Fonofos	0.315	0.063	0.0063	mg/kg dry	0.526	ND	60.0	45-115	9.87	25	
Metolachlor	0.338	0.063	0.0047	mg/kg dry	0.526	ND	64.3	50-125	12.0	25	
Metribuzin	0.375	0.063	0.014	mg/kg dry	0.526	ND	71.3	55-125	8.79	25	
Pendimethalin	0.277	0.063	0.025	mg/kg dry	0.526	ND	52.7	40-120	16.6	25	
Phorate	0.286	0.063	0.0095	mg/kg dry	0.526	ND	54.4	40-115	11.2	25	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0168 - EPA 3545

Matrix Spike Duplicate (B9I0168-MSD1) **Source: 0904716-04RE1** Prepared: 09/10/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	0.401	0.063	0.0095	mg/kg dry	0.526	ND	76.3	60-125	3.38	25	
Propachlor	0.404	0.063	0.014	mg/kg dry	0.526	ND	76.8	60-115	3.10	25	
Propazine	0.392	0.063	0.011	mg/kg dry	0.526	ND	74.6	55-120	7.47	25	
Simazine	0.487	0.063	0.014	mg/kg dry	0.526	ND	92.7	50-120	0.421	25	
Terbufos	0.272	0.063	0.014	mg/kg dry	0.526	ND	51.7	40-120	16.3	25	
Triallate	0.272	0.063	0.0079	mg/kg dry	0.526	ND	51.8	40-115	7.22	25	
Trifluralin	0.271	0.063	0.022	mg/kg dry	0.526	ND	51.5	40-115	6.74	25	
Surrogate: Atrazine-d5	*0.391*			mg/kg dry	*0.526*	*NA*	*74.4*	*50-125*			
Surrogate: Diazinon-d10	*0.341*			mg/kg dry	*0.526*	*NA*	*64.8*	*35-120*			

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0256 - EPA 3545

Method Blank (B9I0256-BLK1)

Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	<0.050	0.050	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	<0.050	0.050	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D	<0.050	0.050	0.012	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D.B.	<0.050	0.050	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Bentazon	<0.050	0.050	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Dicamba	<0.050	0.050	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Dinoseb	<0.050	0.050	0.0050	mg/kg	NA	NA	NA	NA	NA	NA	
M.C.P.A.	<0.050	0.050	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	<0.050	0.050	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Picloram	<0.050	0.050	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Triclopyr	<0.050	0.050	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	*0.112*			mg/kg	*0.166*	*NA*	*67.2*	*50-125*			

Laboratory Control Sample (B9I0256-BS1)

Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.128	0.050	0.0090	mg/kg	0.164	NA	77.8	60-125	NA	NA	
2,4,5-T.P.	0.127	0.050	0.0070	mg/kg	0.164	NA	77.4	65-125	NA	NA	
2,4-D	0.126	0.050	0.012	mg/kg	0.164	NA	76.6	60-125	NA	NA	
2,4-D.B.	0.131	0.050	0.011	mg/kg	0.164	NA	79.6	70-130	NA	NA	
Bentazon	0.127	0.050	0.0090	mg/kg	0.164	NA	77.2	65-125	NA	NA	
Dicamba	0.123	0.050	0.0080	mg/kg	0.164	NA	75.2	60-120	NA	NA	
Dinoseb	0.0926	0.050	0.0050	mg/kg	0.164	NA	56.4	30-120	NA	NA	
M.C.P.A.	0.127	0.050	0.014	mg/kg	0.164	NA	77.2	60-115	NA	NA	
Pentachlorophenol	0.111	0.050	0.0070	mg/kg	0.164	NA	67.6	50-120	NA	NA	
Picloram	0.0725	0.050	0.011	mg/kg	0.164	NA	44.2	30-100	NA	NA	
Triclopyr	0.126	0.050	0.0060	mg/kg	0.164	NA	77.0	65-120	NA	NA	
Surrogate: D.C.A.A.	*0.130*			mg/kg	*0.164*	*NA*	*79.0*	*50-125*			

Laboratory Control Sample Duplicate (B9I0256-BSD1)

Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.133	0.050	0.0090	mg/kg	0.165	NA	80.6	60-125	4.13	25	
2,4,5-T.P.	0.134	0.050	0.0070	mg/kg	0.165	NA	81.4	65-125	5.63	25	
2,4-D	0.141	0.050	0.012	mg/kg	0.165	NA	85.6	60-125	11.7	25	
2,4-D.B.	0.136	0.050	0.011	mg/kg	0.165	NA	82.4	70-130	4.05	25	
Bentazon	0.126	0.050	0.0090	mg/kg	0.165	NA	76.6	65-125	0.188	25	
Dicamba	0.131	0.050	0.0080	mg/kg	0.165	NA	79.4	60-120	6.03	25	
Dinoseb	0.102	0.050	0.0050	mg/kg	0.165	NA	61.8	30-120	9.73	25	
M.C.P.A.	0.133	0.050	0.014	mg/kg	0.165	NA	80.6	60-115	4.90	25	
Pentachlorophenol	0.124	0.050	0.0070	mg/kg	0.165	NA	75.2	50-120	11.2	25	
Picloram	0.0918	0.050	0.011	mg/kg	0.165	NA	55.6	30-100	23.4	25	
Triclopyr	0.131	0.050	0.0060	mg/kg	0.165	NA	79.4	65-120	3.66	25	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904716
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0256 - EPA 3545

Laboratory Control Sample Duplicate (B9I0256-BSD1)

Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: D.C.A.A.	*0.126*			mg/kg	*0.165*	*NA*	*76.2*	*50-125*			

Matrix Spike (B9I0256-MS1)

Source: 0904744-01RE1 Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.164	0.059	0.011	mg/kg dry	0.196	ND	83.6	30-130	NA	NA	
2,4,5-T.P.	0.162	0.059	0.0083	mg/kg dry	0.196	ND	82.6	40-130	NA	NA	
2,4-D	0.163	0.059	0.014	mg/kg dry	0.196	ND	83.0	30-125	NA	NA	
2,4-D.B.	0.157	0.059	0.013	mg/kg dry	0.196	ND	80.0	70-130	NA	NA	
Bentazon	0.152	0.059	0.011	mg/kg dry	0.196	ND	77.6	65-125	NA	NA	
Dicamba	0.159	0.059	0.0095	mg/kg dry	0.196	ND	80.8	30-120	NA	NA	
Dinoseb	0.106	0.059	0.0059	mg/kg dry	0.196	ND	54.2	30-120	NA	NA	
M.C.P.A.	0.162	0.059	0.017	mg/kg dry	0.196	ND	82.4	30-120	NA	NA	
Pentachlorophenol	0.152	0.059	0.0083	mg/kg dry	0.196	ND	77.6	50-120	NA	NA	
Picloram	<0.059	0.059	0.013	mg/kg dry	0.196	ND	NA	30-100	NA	NA	
Triclopyr	0.162	0.059	0.0071	mg/kg dry	0.196	ND	82.2	30-120	NA	NA	
Surrogate: D.C.A.A.	*0.161*			mg/kg dry	*0.196*	*NA*	*81.8*	*50-125*			

Matrix Spike Duplicate (B9I0256-MSD1)

Source: 0904744-01RE1 Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.144	0.059	0.011	mg/kg dry	0.196	ND	73.2	30-130	13.3	25	
2,4,5-T.P.	0.145	0.059	0.0083	mg/kg dry	0.196	ND	73.8	40-130	11.3	25	
2,4-D	0.155	0.059	0.014	mg/kg dry	0.196	ND	78.8	30-125	5.26	25	
2,4-D.B.	0.150	0.059	0.013	mg/kg dry	0.196	ND	76.2	70-130	4.93	25	
Bentazon	0.145	0.059	0.011	mg/kg dry	0.196	ND	73.6	65-125	5.36	25	
Dicamba	0.152	0.059	0.0095	mg/kg dry	0.196	ND	77.6	30-120	4.11	25	
Dinoseb	0.120	0.059	0.0059	mg/kg dry	0.196	ND	61.2	30-120	12.1	25	
M.C.P.A.	0.152	0.059	0.017	mg/kg dry	0.196	ND	77.6	30-120	6.07	25	
Pentachlorophenol	0.152	0.059	0.0083	mg/kg dry	0.196	ND	77.2	50-120	0.583	25	
Picloram	<0.059	0.059	0.013	mg/kg dry	0.196	ND	NA	30-100	NA	25	
Triclopyr	0.153	0.059	0.0071	mg/kg dry	0.196	ND	78.0	30-120	5.31	25	
Surrogate: D.C.A.A.	*0.149*			mg/kg dry	*0.196*	*NA*	*76.0*	*50-125*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904716
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

BARR *Chain of Custody*

4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number: 23/19-0805.07 SIRI 300

Project Name: UMore UMA-SSI/RI

№ 28800

COC 1 of 1

Project Manager: JSA/DME

Project Contact: KJN/AAN

Sampled by: KJN/KCB

Laboratory: Braun

Number of Containers/Preservative (Water / Soil)

Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp	Type: QC	Volatile Organics (Pres.)*1	Semivolatile Organics *2	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	General (Unpreserved)*3	Cyanide (NaOH)	Nutrients (H_2SO_4)*4	Oil and Grease (H_2SO_4)	Sulfide (Zn Acetate)	Methane	Bacteria ($Na_2S_2O_3$)	DRO (HCl)	VOCs (2-oz tared MeOH)*1	GRO, BTEX (2-oz tared MeOH)*1	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.)*2	% Moisture (plastic vial, unpres.)	Total No. Of Containers	Remarks
1. SOC5-SS2-0.5'	8/31/09	935		X		X																		X	X		Analyze List 1+2 Pesticides
2. SOC5-SS1-0.5'		1050		X		X																		X	X		
3. SOC5-SS4-0.5'		1145		X		X																		X	X		
4. SOC5-SS3-0.5'		1325		X		X																		X	X		
5. SOC5-SS5-0.5'		1530		X		X																		X	X		
6. SOC5-SS6-0.5'		1555		X		X																		X	X		
7.																											
8.																											
9.																											
10.																											
11.																											
12.																											

Common Parameter/Container - Preservation Key
- *1 - Volatile Organics = BTEX, GRO, TPH, Full List
- *2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
- *3 - General = pH, Chloride, Flouride, Alkalinity, TSS, TDS, TS, Sulfate
- *4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By	On Ice?	Date	Time	Received by	Date	Time
[signature]	(Y) N	9/1/09	645	[signature]	9-1-09	10:12
Relinquished By:	On Ice? Y N	Date	Time	Received by:	Date	Time

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904716
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number: 23/19-0805.07 SIRI 300
Project Name: UMore UMA-SSI/RI
№ 28801

COC 1 of 1
Project Manager: JSA/JME
Project Contact: KJN/AAN
Sampled by: KJN/KCB
Laboratory: Braun

Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: OC	Volatile Organics (Pres.)*1	Semivolatile Organics *2	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	General (Unpreserved)*3	Cyanide (NaOH)	Nutrients (H_2SO_4)*4	Oil and Grease (H_2SO_4)	Sulfide (Zn Acetate)	Methane	Bacteria ($Na_2S_2O_3$)	DRO (HCl)	VOCs (2-oz tared MeOH)*1	GRO, BTEX (2-oz tared MeOH)*1	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.)*2	% Moisture (plastic vial, unpres.)	Total No. Of Containers	Remarks
1. SOCS-SS2-0.5'	8/31/09	935		X	X																			X	X		Analyze OC-pesticides
2. SOCS-SS1-0.5'	↓	1050		X	X																			X	X		↓
3. SOCS-SS4-0.5'	↓	1145		X	X																			X	X		
4. SOCS-SS3-0.5'	↓	1325		X	X																			X	X		
5. SOCS-SS5-0.5'	↓	1530		X	X																			X	X		
6. SOCS-SS6-0.5'	↓	1555		X	X																			X	X		
7.																											
8.																											
9.																											
10.																											
11.																											
12.																											

HOLD

Common Parameter/Container - Preservation Key
*1 - Volatile Organics = BTEX, GRO, TPH, Full List
*2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
*3 - General = pH, Chloride, Flouride, Alkalinity, TSS, TDS, TS, Sulfate
*4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By	On Ice?	Date	Time	Received By	Date	Time
[signature]	Y N	9/1/09	645	[signature]	9-1-09	10:12
Relinquished By:	On Ice? Y N	Date	Time	Received by:	Date	Time

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other
Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

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Braun Intertec Corporation
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Web: braunintertec.com

Ms. Kelly Neppl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

September 24, 2009

Work Order #: 0904744
(Revised)

RE: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300

Dear Kelly Neppl:

Braun Intertec Corporation received samples for the project identified above on September 02, 2009. Analytical results are summarized in the following report.

All routine quality assurance procedures were followed, unless otherwise noted.

Analytical results are reported on an "as received" basis unless otherwise noted. Where possible, the samples will be retained by the laboratory for 14 days following issuance of the initial final report. The samples will be disposed of or returned at that time. Arrangements can be made for extended storage by contacting me at this time.

We appreciate your decision to use Braun Intertec Corporation for this project. We are committed to being your vendor of choice to meet your analytical chemistry needs.

If you have any questions please contact me at the above phone number.

Sincerely,

Steven J. Albrecht

Steven J. Albrecht
Associate Principal

Certification/Accreditation Numbers

Minnesota Department of Health: 027-053-117 Wisconsin DNR: 999462640

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904744
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

How to Use this Report

In order to get the most out of the information presented in this report please refer to the following explanations as to how the data in this report is tied together and how some of the terms are defined.

Qualifiers and Abbreviations are defined in the following section. You will find these codes used throughout the report in headers and in note sections to designate a unique fact about the data to which they are associated.

The Case Narrative gives a "story" about the analysis and results. Here you will find greater elaboration on relevant qualifiers as well as an explanation of anything of particular note in the data. This is a discussion of the data in terms of quality control and chemistry. It is a summary of any deviations that could affect the usefulness of the data. This is not an interpretation as to how this information relates to regulatory compliance, toxicity, or hazardous characterization. These items are beyond the scope of this report.

The Sample Summary provides detail on sample receipt. The association between Client sample ID and the Laboratory sample ID are defined here; this information is valuable to have when discussing results with your project manager. Sample collection and receipt dates and times are provided here as well. General notes regarding the work order are also documented here. This is a mini "case narrative" that describes any anomalies regarding the condition of the samples upon arrival to the laboratory or special circumstances regarding the work order.

The Conditions Upon Receipt summarizes the results of specific checks that have been performed at sample receipt. This includes items like custody documentation, sample condition, and temperature at receipt. Each "cooler" is identified and the conditions associated with that cooler are documented. A "cooler" is defined as the larger container used to transport the individual samples. In most cases this is a standard recreational cooler but it can be a box, plastic bag, or other container.

The laboratory results are summarized in the following sections. Data is broken down into major categories for convenience. An example of such a category would be "Total Petroleum Hydrocarbons." Here you would find data that references the testing of such parameters as diesel range organics and gasoline range organics. Other categories are similarly mapped. The batch number is associated with each sample. This is important to evaluate Quality Control (QC) data. Surrogate results samples are provided with each sample. Laboratory control limits are provided for comparison (see below). The reference method is also identified. If a method is denoted with an "M" (e.g. EPA 1234(M)) this means that it has been modified. An explanation of the modification will be found in the Case Narrative. A result is given with appropriate units. If a soil sample is dry-weight corrected then the word "dry" will appear next to the units. If the word "dry" does not appear then the result is "as received."

The Method Reporting Limit (MRL) and Method Detection Limit (MDL) are provided. It is important to understand these terms. The MRL is a level that has been empirically verified to provide reliable quantitation of results. Results that are equal to or greater than this value will show up in bold. They are considered "hits." The MDL is a statistically derived number that indicates an estimated concentration at which an analyte can be detected above the noise level. If a result is less than the MRL but greater than the MDL then it is considered an estimate. Such a result is reported with a "J" flag denoting that it has been detected but that the result is an estimate.

In this specific report format, the majority of the analyses are reported without estimated concentrations less than the MRL. For these analyses, if a result is less than the MRL, the result is given as less than the MRL (e.g. if the MRL = 10 then a less than result would be given as "<10"). However, for the Organochlorine Pesticides in water and MDA List 1 Pesticides in water analyses, if a result is less than the MRL but greater than the MDL, then an estimated result is reported with a "J" flag. If a result for either of these two analyses is less than the MDL, then the result is given as less than the MDL.

The Quality Control (QC) samples are documented in the following section. Here you will find the preparation batches associated with each sample from the results section. The sample preparation method is also defined here. Accuracy is represented here in terms of a percent recovery as compared to a known value. Precision is represented as a relative percent difference between two duplicate sample aliquots. The laboratory control limits are provided as a means to evaluate the quality control data. If the result falls outside the laboratory control limits this simply means that it is outside what is typical for the laboratory and is noted accordingly. This does not mean that the data is invalid. Laboratory control limits are generally tighter than most program limits. This is a very important distinction. How the data is ultimately used determines its validity. Program requirements are defined in the Quality Assurance Project Plan (QAPP) governing the project. If your project manager is aware of your specific program requirements then a note will be made in the case narrative if the data fails to meet any of these requirements.

The last section contains copies of important documents and/or instrument printouts relevant to the report. This includes the chain of custody. It also may include items like chromatograms or spectra.

Please note that this report is paginated and must be reproduced in its entirety.

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904744
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Qualifiers and Abbreviations

qn	The spike recovery is outside of laboratory control limits for the matrix spike (MS) and/or the matrix spike duplicate (MSD).
J	Detected but below the Method Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
COC	Chain of Custody
dry	Sample results reported on a dry weight basis
MDL	Method Detection Limit
MRL	Method Reporting Limit
NA	Not Applicable
ND	Analyte NOT DETECTED
NR	Not Reported
%Rec	Percent Recovery
RPD	Relative Percent Difference
VOC	Volatile Organic Compound

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC5-SS9-0.5'	0904744-01	Soil	09/01/09 08:50	09/02/09 10:46
FB-1	0904744-02	Water	09/01/09 10:30	09/02/09 10:46
SOC5-TT29-5'	0904744-03	Soil	09/01/09 11:30	09/02/09 10:46

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Conditions Upon Receipt

Cooler: Cooler 1

Temperature:	1.0 °C	**COC Included:**	Yes	**Custody Seals Used:**	No
Temperature Blank:	Yes	**COC Complete:**	Yes	**Custody Seals Intact:**	NA
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	No
Preservation Confirmed:	No	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-SS9-0.5'

0904744-01 (Soil)

9/1/09 8:50

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**84**	0.050	0.010	% Wt	B9I0077	9/3/09 15:08	9/4/09 14:29	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.029	0.029	0.0017	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:10	EPA 8081A	
4,4'-DDE	<0.029	0.029	0.0030	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:10	EPA 8081A	
4,4'-DDT	<0.029	0.029	0.0027	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:10	EPA 8081A	
Aldrin	<0.029	0.029	0.0037	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:10	EPA 8081A	
alpha-BHC	<0.029	0.029	0.0027	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:10	EPA 8081A	
alpha-Chlordane	<0.029	0.029	0.0023	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:10	EPA 8081A	
beta-BHC	<0.029	0.029	0.0027	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:10	EPA 8081A	
delta-BHC	<0.029	0.029	0.0021	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:10	EPA 8081A	
Dieldrin	<0.029	0.029	0.0026	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:10	EPA 8081A	
Endosulfan I	<0.029	0.029	0.0033	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:10	EPA 8081A	
Endosulfan II	<0.029	0.029	0.0024	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:10	EPA 8081A	
Endosulfan Sulfate	<0.029	0.029	0.0027	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:10	EPA 8081A	
Endrin	<0.029	0.029	0.0033	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:36	EPA 8081A	
Endrin Aldehyde	<0.029	0.029	0.011	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:10	EPA 8081A	
Endrin Ketone	<0.029	0.029	0.0036	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:10	EPA 8081A	
gamma-BHC	<0.029	0.029	0.0029	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:10	EPA 8081A	
gamma-Chlordane	<0.029	0.029	0.0020	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:10	EPA 8081A	
Heptachlor	<0.029	0.029	0.0063	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:10	EPA 8081A	
Heptachlor Epoxide	<0.029	0.029	0.0050	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:10	EPA 8081A	
Methoxychlor	<0.029	0.029	0.0024	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:10	EPA 8081A	
Toxaphene	<0.58	0.58	0.11	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:10	EPA 8081A	
Surr: DBC	*105 %*	*Limits: 40-160%*			*B9I0141*	*9/8/09 14:58*	*9/10/09 3:36*	*EPA 8081A*	
Surr: TCMX	*90.0 %*	*Limits: 60-130%*			*B9I0141*	*9/8/09 14:58*	*9/10/09 3:36*	*EPA 8081A*	

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BRAUN INTERTEC

11001 Hampshire Ave. S.
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952.995.2000 Phone
952.995.2020 Fax

Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904744
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-SS9-0.5'

0904744-01 (Soil)

9/1/09 8:50

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.048	0.048	0.012	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 21:35	EPA 8270C	
Alachlor	<0.048	0.048	0.0083	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 21:35	EPA 8270C	
Atrazine	<0.048	0.048	0.012	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 21:35	EPA 8270C	
Chlorpyrifos	<0.048	0.048	0.0083	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 21:35	EPA 8270C	
Cyanazine	<0.048	0.048	0.0095	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 21:35	EPA 8270C	
Deisopropylatrazine	<0.048	0.048	0.0095	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 21:35	EPA 8270C	
Desethylatrazine	<0.048	0.048	0.013	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 21:35	EPA 8270C	
Dimethenamid	<0.048	0.048	0.0071	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 21:35	EPA 8270C	
EPTC	<0.048	0.048	0.0071	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 21:35	EPA 8270C	
Ethalfluralin	<0.048	0.048	0.017	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 21:35	EPA 8270C	
Fonofos	<0.048	0.048	0.0048	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 21:35	EPA 8270C	
Metolachlor	<0.048	0.048	0.0036	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 21:35	EPA 8270C	
Metribuzin	<0.048	0.048	0.011	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 21:35	EPA 8270C	
Pendimethalin	<0.048	0.048	0.019	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 21:35	EPA 8270C	
Phorate	<0.048	0.048	0.0071	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 21:35	EPA 8270C	
Prometon	<0.048	0.048	0.0071	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 21:35	EPA 8270C	
Propachlor	<0.048	0.048	0.011	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 21:35	EPA 8270C	
Propazine	<0.048	0.048	0.0083	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 21:35	EPA 8270C	
Simazine	<0.048	0.048	0.011	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 21:35	EPA 8270C	
Terbufos	<0.048	0.048	0.011	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 21:35	EPA 8270C	
Triallate	<0.048	0.048	0.0059	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 21:35	EPA 8270C	
Trifluralin	<0.048	0.048	0.017	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 21:35	EPA 8270C	
Surr: Atrazine-d5	*69.7 %*	*Limits: 50-125%*			*B9I0227*	*9/13/09 16:39*	*9/14/09 21:35*	*EPA 8270C*	
Surr: Diazinon-d10	*73.6 %*	*Limits: 35-120%*			*B9I0227*	*9/13/09 16:39*	*9/14/09 21:35*	*EPA 8270C*	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.059	0.059	0.011	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 18:47	EPA 8270C	
2,4,5-T.P.	<0.059	0.059	0.0083	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 18:47	EPA 8270C	
2,4-D	<0.059	0.059	0.014	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 18:47	EPA 8270C	
2,4-D.B.	<0.059	0.059	0.013	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 18:47	EPA 8270C	
Bentazon	<0.059	0.059	0.011	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 18:47	EPA 8270C	
Dicamba	<0.059	0.059	0.0095	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 18:47	EPA 8270C	
Dinoseb	<0.059	0.059	0.0059	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 18:47	EPA 8270C	
M.C.P.A.	<0.059	0.059	0.017	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 18:47	EPA 8270C	
Pentachlorophenol	<0.059	0.059	0.0083	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 18:47	EPA 8270C	
Picloram	<0.059	0.059	0.013	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 18:47	EPA 8270C	qn
Triclopyr	<0.059	0.059	0.0071	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 18:47	EPA 8270C	
Surr: D.C.A.A.	*81.0 %*	*Limits: 50-125%*			*B9I0256*	*9/14/09 9:00*	*9/17/09 18:47*	*EPA 8270C*	

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UMP018544

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904744
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

FB-1

0904744-02 (Water)

9/1/09 10:30

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.014	0.23	0.014	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:18	EPA 8081A	
4,4'-DDE	<0.015	0.23	0.015	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:18	EPA 8081A	
4,4'-DDT	<0.018	0.23	0.018	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:18	EPA 8081A	
Aldrin	<0.016	0.23	0.016	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:18	EPA 8081A	
alpha-BHC	<0.019	0.23	0.019	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:18	EPA 8081A	
alpha-Chlordane	<0.014	0.23	0.014	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:18	EPA 8081A	
beta-BHC	<0.014	0.23	0.014	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:18	EPA 8081A	
delta-BHC	<0.013	0.23	0.013	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:18	EPA 8081A	
Dieldrin	<0.022	0.23	0.022	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:18	EPA 8081A	
Endosulfan I	<0.019	0.23	0.019	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:18	EPA 8081A	
Endosulfan II	<0.017	0.23	0.017	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:18	EPA 8081A	
Endosulfan Sulfate	<0.018	0.23	0.018	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:18	EPA 8081A	
Endrin	<0.018	0.23	0.018	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:18	EPA 8081A	
Endrin Aldehyde	<0.036	0.23	0.036	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:18	EPA 8081A	
Endrin Ketone	<0.017	0.23	0.017	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:18	EPA 8081A	
gamma-BHC	<0.018	0.23	0.018	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:18	EPA 8081A	
gamma-Chlordane	<0.038	0.23	0.038	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:18	EPA 8081A	
Heptachlor	<0.016	0.23	0.016	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:18	EPA 8081A	
Heptachlor Epoxide	<0.035	0.23	0.035	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:18	EPA 8081A	
Methoxychlor	<0.024	0.23	0.024	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:18	EPA 8081A	
Toxaphene	<0.91	4.5	0.91	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:18	EPA 8081A	
Surr: DBC	*77.0 %*	*Limits: 40-130%*			*B9I0106*	*9/8/09 5:50*	*9/9/09 2:18*	*EPA 8081A*	
Surr: TCMX	*88.0 %*	*Limits: 40-120%*			*B9I0106*	*9/8/09 5:50*	*9/9/09 2:44*	*EPA 8081A*	

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.25	0.50	0.25	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:27	EPA 8270C	
Alachlor	<0.19	0.50	0.19	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:27	EPA 8270C	
Atrazine	<0.24	0.50	0.24	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:27	EPA 8270C	
Chlorpyrifos	<0.34	0.50	0.34	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:27	EPA 8270C	
Cyanazine	<0.48	0.50	0.48	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:27	EPA 8270C	
Deisopropylatrazine	<0.26	0.50	0.26	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:27	EPA 8270C	
Desethylatrazine	<0.29	0.50	0.29	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:27	EPA 8270C	
Dimethenamid	<0.24	0.50	0.24	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:27	EPA 8270C	
EPTC	<0.22	0.50	0.22	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:27	EPA 8270C	
Ethalfluralin	<0.47	0.50	0.47	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:27	EPA 8270C	
Fonofos	<0.30	0.50	0.30	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:27	EPA 8270C	
Metolachlor	<0.28	0.50	0.28	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:27	EPA 8270C	
Metribuzin	<0.35	0.50	0.35	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:27	EPA 8270C	
Pendimethalin	<0.25	0.50	0.25	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:27	EPA 8270C	

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UMP018545

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904744
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

FB-1

0904744-02 (Water)

9/1/09 10:30

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Phorate	<0.58	1.0	0.58	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:27	EPA 8270C	
Prometon	<0.29	0.50	0.29	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:27	EPA 8270C	
Propachlor	<0.14	0.50	0.14	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:27	EPA 8270C	
Propazine	<0.21	0.50	0.21	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:27	EPA 8270C	
Simazine	<0.32	0.50	0.32	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:27	EPA 8270C	
Terbufos	<0.54	1.0	0.54	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:27	EPA 8270C	
Triallate	<0.34	0.50	0.34	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:27	EPA 8270C	
Trifluralin	<0.21	0.50	0.21	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:27	EPA 8270C	
Surr: Atrazine-d5	*86.2 %*	*Limits: 50-120%*			*B9I0097*	*9/5/09 6:22*	*9/8/09 19:27*	*EPA 8270C*	
Surr: Diazinon-d10	*82.9 %*	*Limits: 50-120%*			*B9I0097*	*9/5/09 6:22*	*9/8/09 19:27*	*EPA 8270C*	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.48	0.48	0.30	ug/L	B9I0107	9/8/09 5:56	9/10/09 13:17	EPA 8270C	
2,4,5-T.P.	<0.48	0.48	0.27	ug/L	B9I0107	9/8/09 5:56	9/10/09 13:17	EPA 8270C	
2,4-D	<0.48	0.48	0.25	ug/L	B9I0107	9/8/09 5:56	9/10/09 13:17	EPA 8270C	
2,4-D.B.	<0.48	0.48	0.14	ug/L	B9I0107	9/8/09 5:56	9/10/09 13:17	EPA 8270C	
Bentazon	<0.48	0.48	0.21	ug/L	B9I0107	9/8/09 5:56	9/10/09 13:17	EPA 8270C	
Dicamba	<0.48	0.48	0.36	ug/L	B9I0107	9/8/09 5:56	9/10/09 13:17	EPA 8270C	
Dinoseb	<0.95	0.95	0.33	ug/L	B9I0107	9/8/09 5:56	9/10/09 13:17	EPA 8270C	
M.C.P.A.	<0.29	0.29	0.28	ug/L	B9I0107	9/8/09 5:56	9/10/09 13:17	EPA 8270C	qn
Pentachlorophenol	<0.48	0.48	0.37	ug/L	B9I0107	9/8/09 5:56	9/10/09 13:17	EPA 8270C	qn
Picloram	<0.48	0.48	0.24	ug/L	B9I0107	9/8/09 5:56	9/10/09 13:17	EPA 8270C	
Triclopyr	<0.48	0.48	0.39	ug/L	B9I0107	9/8/09 5:56	9/10/09 13:17	EPA 8270C	
Surr: D.C.A.A.	*68.0 %*	*Limits: 65-130%*			*B9I0107*	*9/8/09 5:56*	*9/10/09 13:17*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904744
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-TT29-5'

0904744-03 (Soil)

9/1/09 11:30

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**88**	0.050	0.010	% Wt	B9I0077	9/3/09 15:08	9/4/09 14:29	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.027	0.027	0.0016	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:36	EPA 8081A	
4,4'-DDE	<0.027	0.027	0.0028	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:02	EPA 8081A	
4,4'-DDT	<0.027	0.027	0.0025	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:36	EPA 8081A	
Aldrin	<0.027	0.027	0.0035	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:36	EPA 8081A	
alpha-BHC	<0.027	0.027	0.0025	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:36	EPA 8081A	
alpha-Chlordane	**0.15**	0.027	0.0022	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:36	EPA 8081A	
beta-BHC	<0.027	0.027	0.0025	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:36	EPA 8081A	
delta-BHC	<0.027	0.027	0.0020	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:36	EPA 8081A	
Dieldrin	<0.027	0.027	0.0024	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:36	EPA 8081A	
Endosulfan I	<0.027	0.027	0.0031	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:36	EPA 8081A	
Endosulfan II	<0.027	0.027	0.0023	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:36	EPA 8081A	
Endosulfan Sulfate	<0.027	0.027	0.0025	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:36	EPA 8081A	
Endrin	<0.027	0.027	0.0031	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:02	EPA 8081A	
Endrin Aldehyde	<0.027	0.027	0.010	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:36	EPA 8081A	
Endrin Ketone	<0.027	0.027	0.0034	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:36	EPA 8081A	
gamma-BHC	<0.027	0.027	0.0027	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:36	EPA 8081A	
gamma-Chlordane	**0.072**	0.027	0.0019	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:02	EPA 8081A	
Heptachlor	<0.027	0.027	0.0059	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:36	EPA 8081A	
Heptachlor Epoxide	<0.027	0.027	0.0047	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:02	EPA 8081A	
Methoxychlor	<0.027	0.027	0.0023	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:02	EPA 8081A	
Toxaphene	<0.55	0.55	0.10	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 3:36	EPA 8081A	
Surr: DBC	*107 %*	*Limits: 40-160%*			*B9I0141*	*9/8/09 14:58*	*9/10/09 4:02*	*EPA 8081A*	
Surr: TCMX	*95.6 %*	*Limits: 60-130%*			*B9I0141*	*9/8/09 14:58*	*9/10/09 3:36*	*EPA 8081A*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904744
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-TT29-5'

0904744-03 (Soil)

9/1/09 11:30

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.046	0.046	0.011	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:01	EPA 8270C	
Alachlor	<0.046	0.046	0.0080	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:01	EPA 8270C	
Atrazine	<0.046	0.046	0.011	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:01	EPA 8270C	
Chlorpyrifos	<0.046	0.046	0.0080	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:01	EPA 8270C	
Cyanazine	<0.046	0.046	0.0091	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:01	EPA 8270C	
Deisopropylatrazine	<0.046	0.046	0.0091	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:01	EPA 8270C	
Desethylatrazine	<0.046	0.046	0.013	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:01	EPA 8270C	
Dimethenamid	<0.046	0.046	0.0068	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:01	EPA 8270C	
EPTC	<0.046	0.046	0.0068	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:01	EPA 8270C	
Ethalfluralin	<0.046	0.046	0.016	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:01	EPA 8270C	
Fonofos	<0.046	0.046	0.0046	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:01	EPA 8270C	
Metolachlor	<0.046	0.046	0.0034	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:01	EPA 8270C	
Metribuzin	<0.046	0.046	0.010	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:01	EPA 8270C	
Pendimethalin	<0.046	0.046	0.018	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:01	EPA 8270C	
Phorate	<0.046	0.046	0.0068	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:01	EPA 8270C	
Prometon	<0.046	0.046	0.0068	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:01	EPA 8270C	
Propachlor	<0.046	0.046	0.010	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:01	EPA 8270C	
Propazine	<0.046	0.046	0.0080	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:01	EPA 8270C	
Simazine	<0.046	0.046	0.010	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:01	EPA 8270C	
Terbufos	<0.046	0.046	0.010	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:01	EPA 8270C	
Triallate	<0.046	0.046	0.0057	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:01	EPA 8270C	
Trifluralin	<0.046	0.046	0.016	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:01	EPA 8270C	
Surr: Atrazine-d5	*88.1 %*	*Limits: 50-125%*			*B9I0227*	*9/13/09 16:39*	*9/14/09 22:01*	*EPA 8270C*	
Surr: Diazinon-d10	*83.7 %*	*Limits: 35-120%*			*B9I0227*	*9/13/09 16:39*	*9/14/09 22:01*	*EPA 8270C*	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.055	0.055	0.0099	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 19:12	EPA 8270C	
2,4,5-T.P.	<0.055	0.055	0.0077	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 19:12	EPA 8270C	
2,4-D	<0.055	0.055	0.013	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 19:12	EPA 8270C	
2,4-D.B.	<0.055	0.055	0.012	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 19:12	EPA 8270C	
Bentazon	<0.055	0.055	0.0099	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 19:12	EPA 8270C	
Dicamba	<0.055	0.055	0.0088	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 19:12	EPA 8270C	
Dinoseb	<0.055	0.055	0.0055	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 19:12	EPA 8270C	
M.C.P.A.	<0.055	0.055	0.015	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 19:12	EPA 8270C	
Pentachlorophenol	<0.055	0.055	0.0077	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 19:12	EPA 8270C	
Picloram	<0.055	0.055	0.012	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 19:12	EPA 8270C	qn
Triclopyr	<0.055	0.055	0.0066	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 19:12	EPA 8270C	
Surr: D.C.A.A.	*77.0 %*	*Limits: 50-125%*			*B9I0256*	*9/14/09 9:00*	*9/17/09 19:12*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904744
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Classical Chemistry Parameters - Quality Control

Batch B9I0077 - Default Prep GenChem

Method Blank (B9I0077-BLK1) Prepared: 09/03/09 Analyzed: 09/04/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	<0.050	0.050	0.010	% Wt	NA	NA	NA	NA	NA	NA	

Duplicate (B9I0077-DUP1) **Source: 0904771-02** Prepared: 09/03/09 Analyzed: 09/04/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	95.2	0.050	0.010	% Wt	NA	95.3	NA	NA	0.127	20	

Standard Reference Material (B9I0077-SRM1) Prepared: 09/03/09 Analyzed: 09/04/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	87.8			% Wt	91.3	NA	96.2	90-110	NA	NA	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0106 - EPA 3510C

Method Blank (B9I0106-BLK1)

Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
4,4'-DDE	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
4,4'-DDT	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
Aldrin	<0.018	0.25	0.018	ug/L	NA	NA	NA	NA	NA	NA	
alpha-BHC	<0.021	0.25	0.021	ug/L	NA	NA	NA	NA	NA	NA	
alpha-Chlordane	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
beta-BHC	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
delta-BHC	<0.014	0.25	0.014	ug/L	NA	NA	NA	NA	NA	NA	
Dieldrin	<0.024	0.25	0.024	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan I	<0.021	0.25	0.021	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan II	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan Sulfate	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
Endrin	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
Endrin Aldehyde	<0.040	0.25	0.040	ug/L	NA	NA	NA	NA	NA	NA	
Endrin Ketone	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
gamma-BHC	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
gamma-Chlordane	<0.042	0.25	0.042	ug/L	NA	NA	NA	NA	NA	NA	
Heptachlor	<0.018	0.25	0.018	ug/L	NA	NA	NA	NA	NA	NA	
Heptachlor Epoxide	<0.038	0.25	0.038	ug/L	NA	NA	NA	NA	NA	NA	
Methoxychlor	<0.026	0.25	0.026	ug/L	NA	NA	NA	NA	NA	NA	
Toxaphene	<1.0	5.0	1.0	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: DBC	*2.22*			ug/L	*2.50*	*NA*	*88.9*	*40-130*			
Surrogate: TCMX	*1.97*			ug/L	*2.50*	*NA*	*78.7*	*40-120*			

Laboratory Control Sample (B9I0106-BS1)

Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.60	0.25	0.016	ug/L	2.50	NA	104	80-120	NA	NA	
4,4'-DDE	2.51	0.25	0.016	ug/L	2.50	NA	100	80-120	NA	NA	
4,4'-DDT	2.66	0.25	0.020	ug/L	2.50	NA	106	80-120	NA	NA	
Aldrin	2.35	0.25	0.018	ug/L	2.50	NA	94.1	60-110	NA	NA	
alpha-BHC	2.54	0.25	0.021	ug/L	2.50	NA	102	70-120	NA	NA	
alpha-Chlordane	2.58	0.25	0.016	ug/L	2.50	NA	103	80-120	NA	NA	
beta-BHC	2.60	0.25	0.016	ug/L	2.50	NA	104	80-120	NA	NA	
delta-BHC	2.60	0.25	0.014	ug/L	2.50	NA	104	80-120	NA	NA	
Dieldrin	2.61	0.25	0.024	ug/L	2.50	NA	104	80-120	NA	NA	
Endosulfan I	2.59	0.25	0.021	ug/L	2.50	NA	104	80-120	NA	NA	
Endosulfan II	2.61	0.25	0.019	ug/L	2.50	NA	105	80-120	NA	NA	
Endosulfan Sulfate	2.61	0.25	0.019	ug/L	2.50	NA	104	80-120	NA	NA	
Endrin	2.64	0.25	0.020	ug/L	2.50	NA	105	80-120	NA	NA	
Endrin Aldehyde	2.82	0.25	0.040	ug/L	2.50	NA	113	80-120	NA	NA	
Endrin Ketone	2.62	0.25	0.019	ug/L	2.50	NA	105	80-120	NA	NA	
gamma-BHC	2.56	0.25	0.020	ug/L	2.50	NA	103	80-120	NA	NA	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0106 - EPA 3510C

Laboratory Control Sample (B9I0106-BS1)

Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
gamma-Chlordane	2.58	0.25	0.042	ug/L	2.50	NA	103	80-120	NA	NA	
Heptachlor	2.50	0.25	0.018	ug/L	2.50	NA	100	60-110	NA	NA	
Heptachlor Epoxide	2.59	0.25	0.038	ug/L	2.50	NA	104	80-120	NA	NA	
Methoxychlor	2.67	0.25	0.026	ug/L	2.50	NA	107	80-120	NA	NA	
Surrogate: DBC	*2.40*			ug/L	*2.50*	*NA*	*95.9*	*40-130*			
Surrogate: TCMX	*2.31*			ug/L	*2.50*	*NA*	*92.4*	*40-120*			

Laboratory Control Sample Duplicate (B9I0106-BSD1)

Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.47	0.25	0.016	ug/L	2.50	NA	98.7	80-120	5.20	25	
4,4'-DDE	2.35	0.25	0.016	ug/L	2.50	NA	93.9	80-120	6.77	25	
4,4'-DDT	2.54	0.25	0.020	ug/L	2.50	NA	102	80-120	4.54	25	
Aldrin	2.07	0.25	0.018	ug/L	2.50	NA	82.8	60-110	12.7	25	
alpha-BHC	2.30	0.25	0.021	ug/L	2.50	NA	91.9	70-120	9.95	25	
alpha-Chlordane	2.42	0.25	0.016	ug/L	2.50	NA	97.0	80-120	6.07	25	
beta-BHC	2.47	0.25	0.016	ug/L	2.50	NA	98.8	80-120	5.22	25	
delta-BHC	2.48	0.25	0.014	ug/L	2.50	NA	99.3	80-120	4.62	25	
Dieldrin	2.47	0.25	0.024	ug/L	2.50	NA	98.7	80-120	5.57	25	
Endosulfan I	2.44	0.25	0.021	ug/L	2.50	NA	97.6	80-120	5.87	25	
Endosulfan II	2.49	0.25	0.019	ug/L	2.50	NA	99.5	80-120	4.93	25	
Endosulfan Sulfate	2.48	0.25	0.019	ug/L	2.50	NA	99.2	80-120	5.22	25	
Endrin	2.48	0.25	0.020	ug/L	2.50	NA	99.2	80-120	6.15	25	
Endrin Aldehyde	2.67	0.25	0.040	ug/L	2.50	NA	107	80-120	5.43	25	
Endrin Ketone	2.51	0.25	0.019	ug/L	2.50	NA	100	80-120	4.53	25	
gamma-BHC	2.38	0.25	0.020	ug/L	2.50	NA	95.3	80-120	7.39	25	
gamma-Chlordane	2.42	0.25	0.042	ug/L	2.50	NA	96.8	80-120	6.33	25	
Heptachlor	2.28	0.25	0.018	ug/L	2.50	NA	91.0	60-110	9.37	25	
Heptachlor Epoxide	2.43	0.25	0.038	ug/L	2.50	NA	97.4	80-120	6.36	25	
Methoxychlor	2.55	0.25	0.026	ug/L	2.50	NA	102	80-120	4.62	25	
Surrogate: DBC	*2.25*			ug/L	*2.50*	*NA*	*90.1*	*40-130*			
Surrogate: TCMX	*1.96*			ug/L	*2.50*	*NA*	*78.6*	*40-120*			

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0106 - EPA 3510C

Duplicate (B9I0106-DUP1)

Source: 0904811-01 Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	<0.016	0.25	0.016	ug/L	NA	ND	NA	NA	NA	25	
4,4'-DDE	<0.016	0.25	0.016	ug/L	NA	ND	NA	NA	NA	25	
4,4'-DDT	<0.020	0.25	0.020	ug/L	NA	ND	NA	NA	NA	25	
Aldrin	<0.018	0.25	0.018	ug/L	NA	ND	NA	NA	NA	25	
alpha-BHC	<0.021	0.25	0.021	ug/L	NA	ND	NA	NA	NA	25	
alpha-Chlordane	<0.016	0.25	0.016	ug/L	NA	ND	NA	NA	NA	25	
beta-BHC	<0.016	0.25	0.016	ug/L	NA	ND	NA	NA	NA	25	
delta-BHC	<0.014	0.25	0.014	ug/L	NA	ND	NA	NA	NA	25	
Dieldrin	<0.024	0.25	0.024	ug/L	NA	ND	NA	NA	NA	25	
Endosulfan I	<0.021	0.25	0.021	ug/L	NA	ND	NA	NA	NA	25	
Endosulfan II	<0.019	0.25	0.019	ug/L	NA	ND	NA	NA	NA	25	
Endosulfan Sulfate	<0.019	0.25	0.019	ug/L	NA	ND	NA	NA	NA	25	
Endrin	<0.020	0.25	0.020	ug/L	NA	ND	NA	NA	NA	25	
Endrin Aldehyde	<0.040	0.25	0.040	ug/L	NA	ND	NA	NA	NA	25	
Endrin Ketone	<0.019	0.25	0.019	ug/L	NA	ND	NA	NA	NA	25	
gamma-BHC	<0.020	0.25	0.020	ug/L	NA	ND	NA	NA	NA	25	
gamma-Chlordane	<0.042	0.25	0.042	ug/L	NA	ND	NA	NA	NA	25	
Heptachlor	<0.018	0.25	0.018	ug/L	NA	ND	NA	NA	NA	25	
Heptachlor Epoxide	<0.038	0.25	0.038	ug/L	NA	ND	NA	NA	NA	25	
Methoxychlor	<0.026	0.25	0.026	ug/L	NA	ND	NA	NA	NA	25	
Toxaphene	<1.0	5.0	1.0	ug/L	NA	ND	NA	NA	NA	25	
Surrogate: DBC	*2.28*			ug/L	*2.53*	*NA*	*90.4*	*40-130*			
Surrogate: TCMX	*2.26*			ug/L	*2.53*	*NA*	*89.3*	*40-120*			

Batch B9I0141 - EPA 3545

Method Blank (B9I0141-BLK1)

Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	<0.025	0.025	0.0015	mg/kg	NA	NA	NA	NA	NA	NA	
4,4'-DDE	<0.025	0.025	0.0026	mg/kg	NA	NA	NA	NA	NA	NA	
4,4'-DDT	<0.025	0.025	0.0023	mg/kg	NA	NA	NA	NA	NA	NA	
Aldrin	<0.025	0.025	0.0032	mg/kg	NA	NA	NA	NA	NA	NA	
alpha-BHC	<0.025	0.025	0.0023	mg/kg	NA	NA	NA	NA	NA	NA	
alpha-Chlordane	<0.025	0.025	0.0020	mg/kg	NA	NA	NA	NA	NA	NA	
beta-BHC	<0.025	0.025	0.0023	mg/kg	NA	NA	NA	NA	NA	NA	
delta-BHC	<0.025	0.025	0.0018	mg/kg	NA	NA	NA	NA	NA	NA	
Dieldrin	<0.025	0.025	0.0022	mg/kg	NA	NA	NA	NA	NA	NA	
Endosulfan I	<0.025	0.025	0.0028	mg/kg	NA	NA	NA	NA	NA	NA	
Endosulfan II	<0.025	0.025	0.0021	mg/kg	NA	NA	NA	NA	NA	NA	
Endosulfan Sulfate	<0.025	0.025	0.0023	mg/kg	NA	NA	NA	NA	NA	NA	
Endrin	<0.025	0.025	0.0028	mg/kg	NA	NA	NA	NA	NA	NA	
Endrin Aldehyde	<0.025	0.025	0.0096	mg/kg	NA	NA	NA	NA	NA	NA	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904744
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0141 - EPA 3545

Method Blank (B9I0141-BLK1)

Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Endrin Ketone	<0.025	0.025	0.0031	mg/kg	NA	NA	NA	NA	NA	NA	
gamma-BHC	<0.025	0.025	0.0025	mg/kg	NA	NA	NA	NA	NA	NA	
gamma-Chlordane	<0.025	0.025	0.0017	mg/kg	NA	NA	NA	NA	NA	NA	
Heptachlor	<0.025	0.025	0.0054	mg/kg	NA	NA	NA	NA	NA	NA	
Heptachlor Epoxide	<0.025	0.025	0.0043	mg/kg	NA	NA	NA	NA	NA	NA	
Methoxychlor	<0.025	0.025	0.0021	mg/kg	NA	NA	NA	NA	NA	NA	
Toxaphene	<0.50	0.50	0.096	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: DBC	*0.206*			mg/kg	*0.248*	*NA*	*83.3*	*40-160*			
Surrogate: TCMX	*0.200*			mg/kg	*0.248*	*NA*	*80.8*	*60-130*			

Laboratory Control Sample (B9I0141-BS1)

Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.213	0.024	0.0014	mg/kg	0.237	NA	89.8	70-130	NA	NA	
4,4'-DDE	0.221	0.024	0.0025	mg/kg	0.237	NA	93.1	70-130	NA	NA	
4,4'-DDT	0.269	0.024	0.0022	mg/kg	0.237	NA	113	70-130	NA	NA	
Aldrin	0.226	0.024	0.0030	mg/kg	0.237	NA	95.3	70-130	NA	NA	
alpha-BHC	0.231	0.024	0.0022	mg/kg	0.237	NA	97.7	70-130	NA	NA	
alpha-Chlordane	0.225	0.024	0.0019	mg/kg	0.237	NA	94.9	70-130	NA	NA	
beta-BHC	0.234	0.024	0.0022	mg/kg	0.237	NA	98.7	70-130	NA	NA	
delta-BHC	0.229	0.024	0.0017	mg/kg	0.237	NA	96.4	70-130	NA	NA	
Dieldrin	0.220	0.024	0.0021	mg/kg	0.237	NA	92.8	70-130	NA	NA	
Endosulfan I	0.224	0.024	0.0027	mg/kg	0.237	NA	94.7	70-130	NA	NA	
Endosulfan II	0.207	0.024	0.0020	mg/kg	0.237	NA	87.5	70-130	NA	NA	
Endosulfan Sulfate	0.220	0.024	0.0022	mg/kg	0.237	NA	93.0	70-130	NA	NA	
Endrin	0.212	0.024	0.0027	mg/kg	0.237	NA	89.3	70-130	NA	NA	
Endrin Aldehyde	0.232	0.024	0.0091	mg/kg	0.237	NA	97.7	70-130	NA	NA	
Endrin Ketone	0.262	0.024	0.0029	mg/kg	0.237	NA	111	70-130	NA	NA	
gamma-BHC	0.236	0.024	0.0024	mg/kg	0.237	NA	99.6	70-130	NA	NA	
gamma-Chlordane	0.229	0.024	0.0016	mg/kg	0.237	NA	96.5	70-130	NA	NA	
Heptachlor	0.247	0.024	0.0051	mg/kg	0.237	NA	104	70-130	NA	NA	
Heptachlor Epoxide	0.227	0.024	0.0041	mg/kg	0.237	NA	95.9	70-130	NA	NA	
Methoxychlor	0.259	0.024	0.0020	mg/kg	0.237	NA	109	70-130	NA	NA	
Surrogate: DBC	*0.219*			mg/kg	*0.237*	*NA*	*92.5*	*40-160*			
Surrogate: TCMX	*0.213*			mg/kg	*0.237*	*NA*	*90.0*	*60-130*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904744
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0141 - EPA 3545

Laboratory Control Sample Duplicate (B9I0141-BSD1)

Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.240	0.024	0.0015	mg/kg	0.244	NA	98.6	70-130	12.1	25	
4,4'-DDE	0.245	0.024	0.0025	mg/kg	0.244	NA	100	70-130	10.3	25	
4,4'-DDT	0.276	0.024	0.0022	mg/kg	0.244	NA	113	70-130	2.78	25	
Aldrin	0.251	0.024	0.0031	mg/kg	0.244	NA	103	70-130	10.6	25	
alpha-BHC	0.258	0.024	0.0022	mg/kg	0.244	NA	106	70-130	10.8	25	
alpha-Chlordane	0.248	0.024	0.0019	mg/kg	0.244	NA	102	70-130	9.89	25	
beta-BHC	0.261	0.024	0.0022	mg/kg	0.244	NA	107	70-130	11.2	25	
delta-BHC	0.257	0.024	0.0018	mg/kg	0.244	NA	106	70-130	11.8	25	
Dieldrin	0.248	0.024	0.0021	mg/kg	0.244	NA	102	70-130	11.8	25	
Endosulfan I	0.245	0.024	0.0027	mg/kg	0.244	NA	101	70-130	8.95	25	
Endosulfan II	0.231	0.024	0.0020	mg/kg	0.244	NA	95.0	70-130	11.0	25	
Endosulfan Sulfate	0.236	0.024	0.0022	mg/kg	0.244	NA	96.8	70-130	6.80	25	
Endrin	0.236	0.024	0.0027	mg/kg	0.244	NA	97.0	70-130	11.0	25	
Endrin Aldehyde	0.249	0.024	0.0094	mg/kg	0.244	NA	102	70-130	7.21	25	
Endrin Ketone	0.254	0.024	0.0030	mg/kg	0.244	NA	104	70-130	3.01	25	
gamma-BHC	0.263	0.024	0.0024	mg/kg	0.244	NA	108	70-130	10.8	25	
gamma-Chlordane	0.254	0.024	0.0017	mg/kg	0.244	NA	104	70-130	10.3	25	
Heptachlor	0.272	0.024	0.0053	mg/kg	0.244	NA	112	70-130	9.61	25	
Heptachlor Epoxide	0.253	0.024	0.0042	mg/kg	0.244	NA	104	70-130	10.6	25	
Methoxychlor	0.265	0.024	0.0020	mg/kg	0.244	NA	109	70-130	2.12	25	
Surrogate: DBC	*0.228*			mg/kg	*0.244*	*NA*	*93.4*	*40-160*			
Surrogate: TCMX	*0.233*			mg/kg	*0.244*	*NA*	*95.7*	*60-130*			

Matrix Spike (B9I0141-MS1)

Source: 0904744-01 Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.211	0.030	0.0018	mg/kg dry	0.295	ND	71.3	50-130	NA	NA	
4,4'-DDE	0.215	0.030	0.0031	mg/kg dry	0.295	ND	72.9	50-130	NA	NA	
4,4'-DDT	0.250	0.030	0.0027	mg/kg dry	0.295	ND	84.7	50-130	NA	NA	
Aldrin	0.223	0.030	0.0038	mg/kg dry	0.295	ND	75.5	50-130	NA	NA	
alpha-BHC	0.236	0.030	0.0027	mg/kg dry	0.295	ND	79.9	50-130	NA	NA	
alpha-Chlordane	0.221	0.030	0.0024	mg/kg dry	0.295	ND	75.0	50-130	NA	NA	
beta-BHC	0.238	0.030	0.0027	mg/kg dry	0.295	ND	80.5	50-130	NA	NA	
delta-BHC	0.230	0.030	0.0021	mg/kg dry	0.295	ND	77.7	50-130	NA	NA	
Dieldrin	0.205	0.030	0.0026	mg/kg dry	0.295	ND	69.5	50-130	NA	NA	
Endosulfan I	0.223	0.030	0.0033	mg/kg dry	0.295	ND	75.5	50-130	NA	NA	
Endosulfan II	0.200	0.030	0.0025	mg/kg dry	0.295	ND	67.7	50-130	NA	NA	
Endosulfan Sulfate	0.220	0.030	0.0027	mg/kg dry	0.295	ND	74.7	50-130	NA	NA	
Endrin	0.207	0.030	0.0033	mg/kg dry	0.295	ND	70.1	50-130	NA	NA	
Endrin Aldehyde	0.178	0.030	0.011	mg/kg dry	0.295	ND	60.4	50-130	NA	NA	
Endrin Ketone	0.292	0.030	0.0037	mg/kg dry	0.295	ND	98.9	50-130	NA	NA	
gamma-BHC	0.240	0.030	0.0030	mg/kg dry	0.295	ND	81.2	50-130	NA	NA	
gamma-Chlordane	0.225	0.030	0.0020	mg/kg dry	0.295	ND	76.0	50-130	NA	NA	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904744
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0141 - EPA 3545

Matrix Spike (B9I0141-MS1)

Source: 0904744-01 Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Heptachlor	0.238	0.030	0.0064	mg/kg dry	0.295	ND	80.6	50-130	NA	NA	
Heptachlor Epoxide	0.227	0.030	0.0051	mg/kg dry	0.295	ND	76.8	50-130	NA	NA	
Methoxychlor	0.249	0.030	0.0025	mg/kg dry	0.295	ND	84.2	50-130	NA	NA	
Surrogate: DBC	*0.226*			mg/kg dry	*0.295*	*NA*	*76.6*	*40-160*			
Surrogate: TCMX	*0.214*			mg/kg dry	*0.295*	*NA*	*72.5*	*60-130*			

Matrix Spike Duplicate (B9I0141-MSD1)

Source: 0904744-01 Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.216	0.028	0.0017	mg/kg dry	0.278	ND	77.8	50-130	2.64	25	
4,4'-DDE	0.216	0.028	0.0029	mg/kg dry	0.278	ND	77.9	50-130	0.544	25	
4,4'-DDT	0.261	0.028	0.0026	mg/kg dry	0.278	ND	93.9	50-130	4.28	25	
Aldrin	0.232	0.028	0.0036	mg/kg dry	0.278	ND	83.5	50-130	4.03	25	
alpha-BHC	0.243	0.028	0.0026	mg/kg dry	0.278	ND	87.3	50-130	2.82	25	
alpha-Chlordane	0.221	0.028	0.0022	mg/kg dry	0.278	ND	79.6	50-130	0.114	25	
beta-BHC	0.244	0.028	0.0026	mg/kg dry	0.278	ND	87.9	50-130	2.74	25	
delta-BHC	0.232	0.028	0.0020	mg/kg dry	0.278	ND	83.6	50-130	1.23	25	
Dieldrin	0.217	0.028	0.0024	mg/kg dry	0.278	ND	78.0	50-130	5.51	25	
Endosulfan I	0.226	0.028	0.0031	mg/kg dry	0.278	ND	81.5	50-130	1.52	25	
Endosulfan II	0.202	0.028	0.0023	mg/kg dry	0.278	ND	72.8	50-130	1.24	25	
Endosulfan Sulfate	0.222	0.028	0.0026	mg/kg dry	0.278	ND	80.0	50-130	0.804	25	
Endrin	0.211	0.028	0.0031	mg/kg dry	0.278	ND	75.9	50-130	1.80	25	
Endrin Aldehyde	0.158	0.028	0.011	mg/kg dry	0.278	ND	56.9	50-130	12.0	25	
Endrin Ketone	0.279	0.028	0.0034	mg/kg dry	0.278	ND	100	50-130	4.75	25	
gamma-BHC	0.248	0.028	0.0028	mg/kg dry	0.278	ND	89.1	50-130	3.21	25	
gamma-Chlordane	0.230	0.028	0.0019	mg/kg dry	0.278	ND	82.7	50-130	2.27	25	
Heptachlor	0.249	0.028	0.0060	mg/kg dry	0.278	ND	89.8	50-130	4.68	25	
Heptachlor Epoxide	0.232	0.028	0.0048	mg/kg dry	0.278	ND	83.4	50-130	2.15	25	
Methoxychlor	0.259	0.028	0.0023	mg/kg dry	0.278	ND	93.1	50-130	3.96	25	
Surrogate: DBC	*0.224*			mg/kg dry	*0.278*	*NA*	*80.5*	*40-160*			
Surrogate: TCMX	*0.217*			mg/kg dry	*0.278*	*NA*	*78.0*	*60-130*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904744
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0097 - EPA 3510C

Method Blank (B9I0097-BLK1)

Prepared: 09/05/09 Analyzed: 09/08/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	<0.25	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Alachlor	<0.19	0.50	0.19	ug/L	NA	NA	NA	NA	NA	NA	
Atrazine	<0.24	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	<0.34	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Cyanazine	<0.48	0.50	0.48	ug/L	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	<0.26	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
Desethylatrazine	<0.29	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Dimethenamid	<0.24	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
EPTC	<0.22	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Ethalfluralin	<0.47	0.50	0.47	ug/L	NA	NA	NA	NA	NA	NA	
Fonofos	<0.30	0.50	0.30	ug/L	NA	NA	NA	NA	NA	NA	
Metolachlor	<0.28	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
Metribuzin	<0.35	0.50	0.35	ug/L	NA	NA	NA	NA	NA	NA	
Pendimethalin	<0.25	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Phorate	<0.58	1.0	0.58	ug/L	NA	NA	NA	NA	NA	NA	
Prometon	<0.29	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Propachlor	<0.14	0.50	0.14	ug/L	NA	NA	NA	NA	NA	NA	
Propazine	<0.21	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Simazine	<0.32	0.50	0.32	ug/L	NA	NA	NA	NA	NA	NA	
Terbufos	<0.54	1.0	0.54	ug/L	NA	NA	NA	NA	NA	NA	
Triallate	<0.34	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Trifluralin	<0.21	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: Atrazine-d5	*9.31*			ug/L	*10.0*	*NA*	*93.1*	*50-120*			
Surrogate: Diazinon-d10	*9.19*			ug/L	*10.0*	*NA*	*91.9*	*50-120*			

Laboratory Control Sample (B9I0097-BS1)

Prepared: 09/05/09 Analyzed: 09/08/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	9.45	0.50	0.25	ug/L	10.0	NA	94.5	65-115	NA	NA	
Alachlor	9.37	0.50	0.19	ug/L	10.0	NA	93.7	65-115	NA	NA	
Atrazine	9.34	0.50	0.24	ug/L	10.0	NA	93.4	65-115	NA	NA	
Chlorpyrifos	9.19	0.50	0.34	ug/L	10.0	NA	91.9	65-115	NA	NA	
Cyanazine	10.6	0.50	0.48	ug/L	10.0	NA	106	65-115	NA	NA	
Deisopropylatrazine	8.39	0.50	0.26	ug/L	10.0	NA	83.9	65-115	NA	NA	
Desethylatrazine	9.44	0.50	0.29	ug/L	10.0	NA	94.4	65-115	NA	NA	
Dimethenamid	9.41	0.50	0.24	ug/L	10.0	NA	94.1	65-115	NA	NA	
EPTC	8.95	0.50	0.22	ug/L	10.0	NA	89.5	50-110	NA	NA	
Ethalfluralin	9.71	0.50	0.47	ug/L	10.0	NA	97.1	65-115	NA	NA	
Fonofos	9.14	0.50	0.30	ug/L	10.0	NA	91.4	55-115	NA	NA	
Metolachlor	9.69	0.50	0.28	ug/L	10.0	NA	96.9	70-120	NA	NA	
Metribuzin	9.80	0.50	0.35	ug/L	10.0	NA	98.0	70-120	NA	NA	
Pendimethalin	9.26	0.50	0.25	ug/L	10.0	NA	92.6	65-115	NA	NA	
Phorate	8.76	1.0	0.58	ug/L	10.0	NA	87.6	30-100	NA	NA	

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0097 - EPA 3510C

Laboratory Control Sample (B9I0097-BS1)

Prepared: 09/05/09 Analyzed: 09/08/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	9.80	0.50	0.29	ug/L	10.0	NA	98.0	70-120	NA	NA	
Propachlor	9.35	0.50	0.14	ug/L	10.0	NA	93.5	65-115	NA	NA	
Propazine	9.40	0.50	0.21	ug/L	10.0	NA	94.0	65-115	NA	NA	
Simazine	11.1	0.50	0.32	ug/L	10.0	NA	111	65-115	NA	NA	
Terbufos	9.28	1.0	0.54	ug/L	10.0	NA	92.8	30-100	NA	NA	
Triallate	9.10	0.50	0.34	ug/L	10.0	NA	91.0	65-115	NA	NA	
Trifluralin	9.44	0.50	0.21	ug/L	10.0	NA	94.4	65-115	NA	NA	
Surrogate: Atrazine-d5	*9.00*			ug/L	*10.0*	*NA*	*90.0*	*50-120*			
Surrogate: Diazinon-d10	*9.01*			ug/L	*10.0*	*NA*	*90.1*	*50-120*			

Laboratory Control Sample Duplicate (B9I0097-BSD1)

Prepared: 09/05/09 Analyzed: 09/08/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	8.97	0.50	0.25	ug/L	10.0	NA	89.7	65-115	5.21	25	
Alachlor	9.23	0.50	0.19	ug/L	10.0	NA	92.3	65-115	1.51	25	
Atrazine	9.31	0.50	0.24	ug/L	10.0	NA	93.1	65-115	0.322	25	
Chlorpyrifos	8.72	0.50	0.34	ug/L	10.0	NA	87.2	65-115	5.25	25	
Cyanazine	9.07	0.50	0.48	ug/L	10.0	NA	90.7	65-115	15.3	25	
Deisopropylatrazine	8.60	0.50	0.26	ug/L	10.0	NA	86.0	65-115	2.47	25	
Desethylatrazine	9.10	0.50	0.29	ug/L	10.0	NA	91.0	65-115	3.67	25	
Dimethenamid	8.95	0.50	0.24	ug/L	10.0	NA	89.5	65-115	5.01	25	
EPTC	8.25	0.50	0.22	ug/L	10.0	NA	82.5	50-110	8.14	30	
Ethalfluralin	9.50	0.50	0.47	ug/L	10.0	NA	95.0	65-115	2.19	30	
Fonofos	8.97	0.50	0.30	ug/L	10.0	NA	89.7	55-115	1.88	30	
Metolachlor	9.32	0.50	0.28	ug/L	10.0	NA	93.2	70-120	3.89	25	
Metribuzin	9.58	0.50	0.35	ug/L	10.0	NA	95.8	70-120	2.27	25	
Pendimethalin	9.02	0.50	0.25	ug/L	10.0	NA	90.2	65-115	2.63	25	
Phorate	8.46	1.0	0.58	ug/L	10.0	NA	84.6	30-100	3.48	30	
Prometon	9.39	0.50	0.29	ug/L	10.0	NA	93.9	70-120	4.27	30	
Propachlor	9.02	0.50	0.14	ug/L	10.0	NA	90.2	65-115	3.59	30	
Propazine	9.05	0.50	0.21	ug/L	10.0	NA	90.5	65-115	3.79	25	
Simazine	10.6	0.50	0.32	ug/L	10.0	NA	106	65-115	3.87	25	
Terbufos	8.62	1.0	0.54	ug/L	10.0	NA	86.2	30-100	7.37	30	
Triallate	8.93	0.50	0.34	ug/L	10.0	NA	89.3	65-115	1.89	25	
Trifluralin	8.86	0.50	0.21	ug/L	10.0	NA	88.6	65-115	6.34	25	
Surrogate: Atrazine-d5	*8.69*			ug/L	*10.0*	*NA*	*86.9*	*50-120*			
Surrogate: Diazinon-d10	*8.88*			ug/L	*10.0*	*NA*	*88.8*	*50-120*			

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UMP018557

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904744
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0097 - EPA 3510C

Duplicate (B9I0097-DUP1)

Source: 0904785-01 Prepared: 09/05/09 Analyzed: 09/08/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	<0.28	0.56	0.28	ug/L	NA	ND	NA	NA	NA	30	
Alachlor	<0.21	0.56	0.21	ug/L	NA	ND	NA	NA	NA	30	
Atrazine	1.16	0.56	0.26	ug/L	NA	1.00	NA	NA	14.4	30	
Chlorpyrifos	<0.37	0.56	0.37	ug/L	NA	ND	NA	NA	NA	30	
Cyanazine	<0.54	0.56	0.54	ug/L	NA	ND	NA	NA	NA	30	
Deisopropylatrazine	<0.29	0.56	0.29	ug/L	NA	ND	NA	NA	NA	30	
Desethylatrazine	0.711	0.56	0.32	ug/L	NA	0.705	NA	NA	0.928	30	
Dimethenamid	<0.26	0.56	0.26	ug/L	NA	ND	NA	NA	NA	30	
EPTC	<0.24	0.56	0.24	ug/L	NA	ND	NA	NA	NA	30	
Ethalfluralin	<0.52	0.56	0.52	ug/L	NA	ND	NA	NA	NA	30	
Fonofos	<0.33	0.56	0.33	ug/L	NA	ND	NA	NA	NA	30	
Metolachlor	<0.31	0.56	0.31	ug/L	NA	ND	NA	NA	NA	30	
Metribuzin	<0.39	0.56	0.39	ug/L	NA	ND	NA	NA	NA	30	
Pendimethalin	<0.28	0.56	0.28	ug/L	NA	ND	NA	NA	NA	30	
Phorate	<0.65	1.1	0.65	ug/L	NA	ND	NA	NA	NA	30	
Prometon	<0.33	0.56	0.33	ug/L	NA	ND	NA	NA	NA	30	
Propachlor	<0.16	0.56	0.16	ug/L	NA	ND	NA	NA	NA	30	
Propazine	<0.23	0.56	0.23	ug/L	NA	ND	NA	NA	NA	30	
Simazine	<0.35	0.56	0.35	ug/L	NA	ND	NA	NA	NA	30	
Terbufos	<0.60	1.1	0.60	ug/L	NA	ND	NA	NA	NA	30	
Triallate	<0.37	0.56	0.37	ug/L	NA	ND	NA	NA	NA	30	
Trifluralin	<0.24	0.56	0.24	ug/L	NA	ND	NA	NA	NA	30	
Surrogate: Atrazine-d5	*10.0*			ug/L	*11.1*	*NA*	*90.0*	*50-120*			
Surrogate: Diazinon-d10	*10.1*			ug/L	*11.1*	*NA*	*91.3*	*50-120*			

Batch B9I0227 - EPA 3545

Method Blank (B9I0227-BLK1)

Prepared: 09/13/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	<0.040	0.040	0.010	mg/kg	NA	NA	NA	NA	NA	NA	
Alachlor	<0.040	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Atrazine	<0.040	0.040	0.010	mg/kg	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	<0.040	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Cyanazine	<0.040	0.040	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	<0.040	0.040	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Desethylatrazine	<0.040	0.040	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Dimethenamid	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
EPTC	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Ethalfluralin	<0.040	0.040	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Fonofos	<0.040	0.040	0.0040	mg/kg	NA	NA	NA	NA	NA	NA	
Metolachlor	<0.040	0.040	0.0030	mg/kg	NA	NA	NA	NA	NA	NA	
Metribuzin	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904744
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0227 - EPA 3545

Method Blank (B9I0227-BLK1)

Prepared: 09/13/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Pendimethalin	<0.040	0.040	0.016	mg/kg	NA	NA	NA	NA	NA	NA	
Phorate	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Prometon	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Propachlor	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Propazine	<0.040	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Simazine	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Terbufos	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Triallate	<0.040	0.040	0.0050	mg/kg	NA	NA	NA	NA	NA	NA	
Trifluralin	<0.040	0.040	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: Atrazine-d5	*0.232*			mg/kg	*0.329*	*NA*	*70.6*	*50-125*			
Surrogate: Diazinon-d10	*0.246*			mg/kg	*0.329*	*NA*	*74.6*	*35-120*			

Laboratory Control Sample (B9I0227-BS1)

Prepared: 09/13/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.302	0.040	0.010	mg/kg	0.332	NA	91.1	70-120	NA	NA	
Alachlor	0.299	0.040	0.0070	mg/kg	0.332	NA	90.2	70-120	NA	NA	
Atrazine	0.294	0.040	0.010	mg/kg	0.332	NA	88.7	70-120	NA	NA	
Chlorpyrifos	0.293	0.040	0.0070	mg/kg	0.332	NA	88.4	70-120	NA	NA	
Cyanazine	0.306	0.040	0.0080	mg/kg	0.332	NA	92.3	70-120	NA	NA	
Deisopropylatrazine	0.274	0.040	0.0080	mg/kg	0.332	NA	82.6	65-115	NA	NA	
Desethylatrazine	0.301	0.040	0.011	mg/kg	0.332	NA	90.7	70-120	NA	NA	
Dimethenamid	0.296	0.040	0.0060	mg/kg	0.332	NA	89.3	70-120	NA	NA	
EPTC	0.284	0.040	0.0060	mg/kg	0.332	NA	85.7	60-105	NA	NA	
Ethalfluralin	0.276	0.040	0.014	mg/kg	0.332	NA	83.2	70-120	NA	NA	
Fonofos	0.298	0.040	0.0040	mg/kg	0.332	NA	89.8	70-115	NA	NA	
Metolachlor	0.300	0.040	0.0030	mg/kg	0.332	NA	90.6	70-120	NA	NA	
Metribuzin	0.297	0.040	0.0090	mg/kg	0.332	NA	89.7	70-120	NA	NA	
Pendimethalin	0.307	0.040	0.016	mg/kg	0.332	NA	92.7	70-120	NA	NA	
Phorate	0.305	0.040	0.0060	mg/kg	0.332	NA	91.9	70-115	NA	NA	
Prometon	0.299	0.040	0.0060	mg/kg	0.332	NA	90.2	70-120	NA	NA	
Propachlor	0.284	0.040	0.0090	mg/kg	0.332	NA	85.8	70-115	NA	NA	
Propazine	0.297	0.040	0.0070	mg/kg	0.332	NA	89.7	70-120	NA	NA	
Simazine	0.262	0.040	0.0090	mg/kg	0.332	NA	78.9	60-115	NA	NA	
Terbufos	0.293	0.040	0.0090	mg/kg	0.332	NA	88.5	70-115	NA	NA	
Triallate	0.285	0.040	0.0050	mg/kg	0.332	NA	86.0	70-115	NA	NA	
Trifluralin	0.284	0.040	0.014	mg/kg	0.332	NA	85.8	70-115	NA	NA	
Surrogate: Atrazine-d5	*0.259*			mg/kg	*0.332*	*NA*	*78.2*	*50-125*			
Surrogate: Diazinon-d10	*0.264*			mg/kg	*0.332*	*NA*	*79.7*	*35-120*			

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UMP018559

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904744
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0227 - EPA 3545

Laboratory Control Sample Duplicate (B9I0227-BSD1)

Prepared: 09/13/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.298	0.040	0.010	mg/kg	0.329	NA	90.4	70-120	1.47	20	
Alachlor	0.304	0.040	0.0070	mg/kg	0.329	NA	92.2	70-120	1.50	20	
Atrazine	0.298	0.040	0.010	mg/kg	0.329	NA	90.4	70-120	1.20	20	
Chlorpyrifos	0.294	0.040	0.0070	mg/kg	0.329	NA	89.2	70-120	0.207	20	
Cyanazine	0.308	0.040	0.0080	mg/kg	0.329	NA	93.5	70-120	0.598	20	
Deisopropylatrazine	0.279	0.040	0.0080	mg/kg	0.329	NA	84.7	65-115	1.82	20	
Desethylatrazine	0.298	0.040	0.011	mg/kg	0.329	NA	90.6	70-120	0.804	20	
Dimethenamid	0.308	0.040	0.0060	mg/kg	0.329	NA	93.6	70-120	4.01	20	
EPTC	0.269	0.040	0.0060	mg/kg	0.329	NA	81.7	60-105	5.47	20	
Ethalfluralin	0.302	0.040	0.014	mg/kg	0.329	NA	91.7	70-120	9.03	20	
Fonofos	0.300	0.040	0.0040	mg/kg	0.329	NA	91.1	70-115	0.743	20	
Metolachlor	0.307	0.040	0.0030	mg/kg	0.329	NA	93.3	70-120	2.24	20	
Metribuzin	0.299	0.040	0.0090	mg/kg	0.329	NA	90.7	70-120	0.415	20	
Pendimethalin	0.310	0.040	0.016	mg/kg	0.329	NA	94.1	70-120	0.805	20	
Phorate	0.304	0.040	0.0060	mg/kg	0.329	NA	92.4	70-115	0.151	20	
Prometon	0.311	0.040	0.0060	mg/kg	0.329	NA	94.5	70-120	3.96	20	
Propachlor	0.288	0.040	0.0090	mg/kg	0.329	NA	87.5	70-115	1.27	20	
Propazine	0.309	0.040	0.0070	mg/kg	0.329	NA	93.9	70-120	3.88	20	
Simazine	0.273	0.040	0.0090	mg/kg	0.329	NA	82.9	60-115	4.25	20	
Terbufos	0.296	0.040	0.0090	mg/kg	0.329	NA	90.0	70-115	0.987	20	
Triallate	0.290	0.040	0.0050	mg/kg	0.329	NA	88.1	70-115	1.72	20	
Trifluralin	0.278	0.040	0.014	mg/kg	0.329	NA	84.5	70-115	2.22	20	
Surrogate: Atrazine-d5	*0.261*			mg/kg	*0.329*	*NA*	*79.4*	*50-125*			
Surrogate: Diazinon-d10	*0.268*			mg/kg	*0.329*	*NA*	*81.3*	*35-120*			

Matrix Spike (B9I0227-MS1)

Source: 0904744-01 Prepared: 09/13/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.356	0.048	0.012	mg/kg dry	0.396	ND	89.8	50-120	NA	NA	
Alachlor	0.366	0.048	0.0083	mg/kg dry	0.396	ND	92.3	55-120	NA	NA	
Atrazine	0.375	0.048	0.012	mg/kg dry	0.396	ND	94.7	60-120	NA	NA	
Chlorpyrifos	0.313	0.048	0.0083	mg/kg dry	0.396	ND	79.0	40-125	NA	NA	
Cyanazine	0.390	0.048	0.0095	mg/kg dry	0.396	ND	98.3	55-125	NA	NA	
Deisopropylatrazine	0.334	0.048	0.0095	mg/kg dry	0.396	ND	84.4	55-120	NA	NA	
Desethylatrazine	0.379	0.048	0.013	mg/kg dry	0.396	ND	95.6	60-125	NA	NA	
Dimethenamid	0.384	0.048	0.0071	mg/kg dry	0.396	ND	96.9	55-120	NA	NA	
EPTC	0.363	0.048	0.0071	mg/kg dry	0.396	ND	91.6	40-105	NA	NA	
Ethalfluralin	0.327	0.048	0.017	mg/kg dry	0.396	ND	82.6	40-120	NA	NA	
Fonofos	0.356	0.048	0.0048	mg/kg dry	0.396	ND	89.9	45-115	NA	NA	
Metolachlor	0.401	0.048	0.0036	mg/kg dry	0.396	0.0233	95.2	50-125	NA	NA	
Metribuzin	0.356	0.048	0.011	mg/kg dry	0.396	ND	89.9	55-125	NA	NA	
Pendimethalin	0.349	0.048	0.019	mg/kg dry	0.396	ND	88.0	40-120	NA	NA	
Phorate	0.357	0.048	0.0071	mg/kg dry	0.396	ND	90.2	40-115	NA	NA	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904744
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0227 - EPA 3545

Matrix Spike (B9I0227-MS1)

Source: 0904744-01 Prepared: 09/13/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	0.345	0.048	0.0071	mg/kg dry	0.396	ND	87.0	60-125	NA	NA	
Propachlor	0.379	0.048	0.011	mg/kg dry	0.396	ND	95.7	60-115	NA	NA	
Propazine	0.386	0.048	0.0083	mg/kg dry	0.396	ND	97.5	55-120	NA	NA	
Simazine	0.336	0.048	0.011	mg/kg dry	0.396	ND	84.8	50-120	NA	NA	
Terbufos	0.344	0.048	0.011	mg/kg dry	0.396	ND	86.8	40-120	NA	NA	
Triallate	0.327	0.048	0.0059	mg/kg dry	0.396	ND	82.6	40-115	NA	NA	
Trifluralin	0.319	0.048	0.017	mg/kg dry	0.396	ND	80.6	40-115	NA	NA	
Surrogate: Atrazine-d5	*0.350*			mg/kg dry	*0.396*	*NA*	*88.3*	*50-125*			
Surrogate: Diazinon-d10	*0.321*			mg/kg dry	*0.396*	*NA*	*80.9*	*35-120*			

Matrix Spike Duplicate (B9I0227-MSD1)

Source: 0904744-01 Prepared: 09/13/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.330	0.048	0.012	mg/kg dry	0.395	ND	83.6	50-120	7.48	25	
Alachlor	0.336	0.048	0.0083	mg/kg dry	0.395	ND	85.0	55-120	8.57	25	
Atrazine	0.350	0.048	0.012	mg/kg dry	0.395	ND	88.5	60-120	7.10	25	
Chlorpyrifos	0.294	0.048	0.0083	mg/kg dry	0.395	ND	74.4	40-125	6.33	25	
Cyanazine	0.354	0.048	0.0095	mg/kg dry	0.395	ND	89.7	55-125	9.48	25	
Deisopropylatrazine	0.329	0.048	0.0095	mg/kg dry	0.395	ND	83.2	55-120	1.76	25	
Desethylatrazine	0.353	0.048	0.013	mg/kg dry	0.395	ND	89.3	60-125	7.15	25	
Dimethenamid	0.357	0.048	0.0071	mg/kg dry	0.395	ND	90.5	55-120	7.16	25	
EPTC	0.331	0.048	0.0071	mg/kg dry	0.395	ND	83.7	40-105	9.34	25	
Ethalfluralin	0.308	0.048	0.017	mg/kg dry	0.395	ND	77.9	40-120	6.19	25	
Fonofos	0.326	0.048	0.0048	mg/kg dry	0.395	ND	82.5	45-115	8.92	25	
Metolachlor	0.362	0.048	0.0036	mg/kg dry	0.395	0.0233	85.8	50-125	10.1	25	
Metribuzin	0.336	0.048	0.011	mg/kg dry	0.395	ND	85.0	55-125	5.94	25	
Pendimethalin	0.308	0.048	0.019	mg/kg dry	0.395	ND	77.9	40-120	12.5	25	
Phorate	0.323	0.048	0.0071	mg/kg dry	0.395	ND	81.7	40-115	10.2	25	
Prometon	0.333	0.048	0.0071	mg/kg dry	0.395	ND	84.3	60-125	3.48	25	
Propachlor	0.350	0.048	0.011	mg/kg dry	0.395	ND	88.5	60-115	8.15	25	
Propazine	0.357	0.048	0.0083	mg/kg dry	0.395	ND	90.4	55-120	7.89	25	
Simazine	0.323	0.048	0.011	mg/kg dry	0.395	ND	81.8	50-120	3.93	25	
Terbufos	0.309	0.048	0.011	mg/kg dry	0.395	ND	78.3	40-120	10.6	25	
Triallate	0.298	0.048	0.0059	mg/kg dry	0.395	ND	75.4	40-115	9.45	25	
Trifluralin	0.299	0.048	0.017	mg/kg dry	0.395	ND	75.6	40-115	6.73	25	
Surrogate: Atrazine-d5	*0.312*			mg/kg dry	*0.395*	*NA*	*79.0*	*50-125*			
Surrogate: Diazinon-d10	*0.307*			mg/kg dry	*0.395*	*NA*	*77.7*	*35-120*			

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UMP018561

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904744
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0107 - EPA 3510C

Method Blank (B9I0107-BLK1)

Prepared: 09/08/09 Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	<0.50	0.50	0.31	ug/L	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	<0.50	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D	<0.50	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D.B.	<0.50	0.50	0.15	ug/L	NA	NA	NA	NA	NA	NA	
Bentazon	<0.50	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Dicamba	<0.50	0.50	0.38	ug/L	NA	NA	NA	NA	NA	NA	
Dinoseb	<1.0	1.0	0.34	ug/L	NA	NA	NA	NA	NA	NA	
M.C.P.A.	<0.30	0.30	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	<0.50	0.50	0.39	ug/L	NA	NA	NA	NA	NA	NA	
Picloram	<0.50	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Triclopyr	<0.50	0.50	0.41	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	*3.95*			ug/L	*5.00*	*NA*	*79.0*	*65-130*			

Laboratory Control Sample (B9I0107-BS1)

Prepared: 09/08/09 Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.62	0.50	0.31	ug/L	5.00	NA	92.4	70-130	NA	NA	
2,4,5-T.P.	4.57	0.50	0.28	ug/L	5.00	NA	91.4	70-130	NA	NA	
2,4-D	4.23	0.50	0.26	ug/L	5.00	NA	84.6	70-130	NA	NA	
2,4-D.B.	5.67	0.50	0.15	ug/L	5.00	NA	113	75-140	NA	NA	
Bentazon	5.14	0.50	0.22	ug/L	5.00	NA	103	75-135	NA	NA	
Dicamba	3.82	0.50	0.38	ug/L	5.00	NA	76.4	65-130	NA	NA	
Dinoseb	3.57	1.0	0.34	ug/L	5.00	NA	71.4	40-125	NA	NA	
M.C.P.A.	3.67	0.30	0.29	ug/L	5.00	NA	73.4	70-130	NA	NA	
Pentachlorophenol	4.25	0.50	0.39	ug/L	5.00	NA	85.0	70-120	NA	NA	
Picloram	3.81	0.50	0.25	ug/L	5.00	NA	76.2	60-125	NA	NA	
Triclopyr	4.32	0.50	0.41	ug/L	5.00	NA	86.4	75-125	NA	NA	
Surrogate: D.C.A.A.	*3.80*			ug/L	*5.00*	*NA*	*76.0*	*65-130*			

Laboratory Control Sample Duplicate (B9I0107-BSD1)

Prepared: 09/08/09 Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.33	0.50	0.31	ug/L	5.00	NA	86.6	70-130	6.48	20	
2,4,5-T.P.	4.65	0.50	0.28	ug/L	5.00	NA	93.0	70-130	1.74	20	
2,4-D	4.25	0.50	0.26	ug/L	5.00	NA	85.0	70-130	0.472	20	
2,4-D.B.	5.52	0.50	0.15	ug/L	5.00	NA	110	75-140	2.68	20	
Bentazon	4.99	0.50	0.22	ug/L	5.00	NA	99.8	75-135	2.96	20	
Dicamba	3.80	0.50	0.38	ug/L	5.00	NA	76.0	65-130	0.525	20	
Dinoseb	3.45	1.0	0.34	ug/L	5.00	NA	69.0	40-125	3.42	20	
M.C.P.A.	3.75	0.30	0.29	ug/L	5.00	NA	75.0	70-130	2.16	20	
Pentachlorophenol	3.96	0.50	0.39	ug/L	5.00	NA	79.2	70-120	7.06	20	
Picloram	3.74	0.50	0.25	ug/L	5.00	NA	74.8	60-125	1.85	20	
Triclopyr	4.47	0.50	0.41	ug/L	5.00	NA	89.4	75-125	3.41	20	

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UMP018562

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904744
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0107 - EPA 3510C

Laboratory Control Sample Duplicate (B9I0107-BSD1)

Prepared: 09/08/09 Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: D.C.A.A.	*3.67*			ug/L	*5.00*	*NA*	*73.4*	*65-130*			

Matrix Spike (B9I0107-MS1)

Source: 0904847-02 Prepared: 09/08/09 Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.66	0.56	0.35	ug/L	5.62	ND	83.0	70-140	NA	NA	
2,4,5-T.P.	5.08	0.56	0.32	ug/L	5.62	ND	90.4	70-135	NA	NA	
2,4-D	4.49	0.56	0.30	ug/L	5.62	ND	80.0	70-140	NA	NA	
2,4-D.B.	5.90	0.56	0.17	ug/L	5.62	ND	105	75-140	NA	NA	
Bentazon	4.87	0.56	0.25	ug/L	5.62	ND	86.6	70-140	NA	NA	
Dicamba	4.35	0.56	0.43	ug/L	5.62	ND	77.4	65-140	NA	NA	
Dinoseb	4.37	1.1	0.39	ug/L	5.62	ND	77.8	40-130	NA	NA	
M.C.P.A.	3.34	0.34	0.33	ug/L	5.62	ND	59.4	60-140	NA	NA	
Pentachlorophenol	2.87	0.56	0.44	ug/L	5.62	ND	51.0	70-125	NA	NA	
Picloram	4.17	0.56	0.28	ug/L	5.62	ND	74.2	45-140	NA	NA	
Triclopyr	4.69	0.56	0.46	ug/L	5.62	ND	83.4	75-125	NA	NA	
Surrogate: D.C.A.A.	*4.45*			ug/L	*5.62*	*NA*	*79.2*	*65-130*			

Matrix Spike Duplicate (B9I0107-MSD1)

Source: 0904847-02 Prepared: 09/08/09 Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	5.00	0.57	0.36	ug/L	5.68	ND	88.0	70-140	6.98	25	
2,4,5-T.P.	5.19	0.57	0.32	ug/L	5.68	ND	91.4	70-135	2.23	25	
2,4-D	4.61	0.57	0.30	ug/L	5.68	ND	81.2	70-140	2.62	25	
2,4-D.B.	6.08	0.57	0.17	ug/L	5.68	ND	107	75-140	3.02	25	
Bentazon	4.47	0.57	0.26	ug/L	5.68	ND	78.6	70-140	8.56	25	
Dicamba	4.42	0.57	0.43	ug/L	5.68	ND	77.8	65-140	1.65	25	
Dinoseb	4.28	1.1	0.39	ug/L	5.68	ND	75.4	40-130	2.00	25	
M.C.P.A.	3.28	0.34	0.33	ug/L	5.68	ND	57.8	60-140	1.60	25	
Pentachlorophenol	2.28	0.57	0.45	ug/L	5.68	ND	40.2	70-125	22.6	25	
Picloram	4.43	0.57	0.29	ug/L	5.68	ND	78.0	45-140	6.12	25	
Triclopyr	4.94	0.57	0.46	ug/L	5.68	ND	87.0	75-125	5.35	25	
Surrogate: D.C.A.A.	*4.39*			ug/L	*5.68*	*NA*	*77.2*	*65-130*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904744
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0256 - EPA 3545

Method Blank (B9I0256-BLK1)

Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	<0.050	0.050	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	<0.050	0.050	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D	<0.050	0.050	0.012	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D.B.	<0.050	0.050	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Bentazon	<0.050	0.050	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Dicamba	<0.050	0.050	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Dinoseb	<0.050	0.050	0.0050	mg/kg	NA	NA	NA	NA	NA	NA	
M.C.P.A.	<0.050	0.050	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	<0.050	0.050	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Picloram	<0.050	0.050	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Triclopyr	<0.050	0.050	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	*0.112*			mg/kg	*0.166*	*NA*	*67.2*	*50-125*			

Laboratory Control Sample (B9I0256-BS1)

Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.128	0.050	0.0090	mg/kg	0.164	NA	77.8	60-125	NA	NA	
2,4,5-T.P.	0.127	0.050	0.0070	mg/kg	0.164	NA	77.4	65-125	NA	NA	
2,4-D	0.126	0.050	0.012	mg/kg	0.164	NA	76.6	60-125	NA	NA	
2,4-D.B.	0.131	0.050	0.011	mg/kg	0.164	NA	79.6	70-130	NA	NA	
Bentazon	0.127	0.050	0.0090	mg/kg	0.164	NA	77.2	65-125	NA	NA	
Dicamba	0.123	0.050	0.0080	mg/kg	0.164	NA	75.2	60-120	NA	NA	
Dinoseb	0.0926	0.050	0.0050	mg/kg	0.164	NA	56.4	30-120	NA	NA	
M.C.P.A.	0.127	0.050	0.014	mg/kg	0.164	NA	77.2	60-115	NA	NA	
Pentachlorophenol	0.111	0.050	0.0070	mg/kg	0.164	NA	67.6	50-120	NA	NA	
Picloram	0.0725	0.050	0.011	mg/kg	0.164	NA	44.2	30-100	NA	NA	
Triclopyr	0.126	0.050	0.0060	mg/kg	0.164	NA	77.0	65-120	NA	NA	
Surrogate: D.C.A.A.	*0.130*			mg/kg	*0.164*	*NA*	*79.0*	*50-125*			

Laboratory Control Sample Duplicate (B9I0256-BSD1)

Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.133	0.050	0.0090	mg/kg	0.165	NA	80.6	60-125	4.13	25	
2,4,5-T.P.	0.134	0.050	0.0070	mg/kg	0.165	NA	81.4	65-125	5.63	25	
2,4-D	0.141	0.050	0.012	mg/kg	0.165	NA	85.6	60-125	11.7	25	
2,4-D.B.	0.136	0.050	0.011	mg/kg	0.165	NA	82.4	70-130	4.05	25	
Bentazon	0.126	0.050	0.0090	mg/kg	0.165	NA	76.6	65-125	0.188	25	
Dicamba	0.131	0.050	0.0080	mg/kg	0.165	NA	79.4	60-120	6.03	25	
Dinoseb	0.102	0.050	0.0050	mg/kg	0.165	NA	61.8	30-120	9.73	25	
M.C.P.A.	0.133	0.050	0.014	mg/kg	0.165	NA	80.6	60-115	4.90	25	
Pentachlorophenol	0.124	0.050	0.0070	mg/kg	0.165	NA	75.2	50-120	11.2	25	
Picloram	0.0918	0.050	0.011	mg/kg	0.165	NA	55.6	30-100	23.4	25	
Triclopyr	0.131	0.050	0.0060	mg/kg	0.165	NA	79.4	65-120	3.66	25	

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UMP018564

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904744
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0256 - EPA 3545

Laboratory Control Sample Duplicate (B9I0256-BSD1)

Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: D.C.A.A.	*0.126*			mg/kg	*0.165*	*NA*	*76.2*	*50-125*			

Matrix Spike (B9I0256-MS1)

Source: 0904744-01RE1 Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.164	0.059	0.011	mg/kg dry	0.196	ND	83.6	30-130	NA	NA	
2,4,5-T.P.	0.162	0.059	0.0083	mg/kg dry	0.196	ND	82.6	40-130	NA	NA	
2,4-D	0.163	0.059	0.014	mg/kg dry	0.196	ND	83.0	30-125	NA	NA	
2,4-D.B.	0.157	0.059	0.013	mg/kg dry	0.196	ND	80.0	70-130	NA	NA	
Bentazon	0.152	0.059	0.011	mg/kg dry	0.196	ND	77.6	65-125	NA	NA	
Dicamba	0.159	0.059	0.0095	mg/kg dry	0.196	ND	80.8	30-120	NA	NA	
Dinoseb	0.106	0.059	0.0059	mg/kg dry	0.196	ND	54.2	30-120	NA	NA	
M.C.P.A.	0.162	0.059	0.017	mg/kg dry	0.196	ND	82.4	30-120	NA	NA	
Pentachlorophenol	0.152	0.059	0.0083	mg/kg dry	0.196	ND	77.6	50-120	NA	NA	
Picloram	<0.059	0.059	0.013	mg/kg dry	0.196	ND	NA	30-100	NA	NA	
Triclopyr	0.162	0.059	0.0071	mg/kg dry	0.196	ND	82.2	30-120	NA	NA	
Surrogate: D.C.A.A.	*0.161*			mg/kg dry	*0.196*	*NA*	*81.8*	*50-125*			

Matrix Spike Duplicate (B9I0256-MSD1)

Source: 0904744-01RE1 Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.144	0.059	0.011	mg/kg dry	0.196	ND	73.2	30-130	13.3	25	
2,4,5-T.P.	0.145	0.059	0.0083	mg/kg dry	0.196	ND	73.8	40-130	11.3	25	
2,4-D	0.155	0.059	0.014	mg/kg dry	0.196	ND	78.8	30-125	5.26	25	
2,4-D.B.	0.150	0.059	0.013	mg/kg dry	0.196	ND	76.2	70-130	4.93	25	
Bentazon	0.145	0.059	0.011	mg/kg dry	0.196	ND	73.6	65-125	5.36	25	
Dicamba	0.152	0.059	0.0095	mg/kg dry	0.196	ND	77.6	30-120	4.11	25	
Dinoseb	0.120	0.059	0.0059	mg/kg dry	0.196	ND	61.2	30-120	12.1	25	
M.C.P.A.	0.152	0.059	0.017	mg/kg dry	0.196	ND	77.6	30-120	6.07	25	
Pentachlorophenol	0.152	0.059	0.0083	mg/kg dry	0.196	ND	77.2	50-120	0.583	25	
Picloram	<0.059	0.059	0.013	mg/kg dry	0.196	ND	NA	30-100	NA	25	
Triclopyr	0.153	0.059	0.0071	mg/kg dry	0.196	ND	78.0	30-120	5.31	25	
Surrogate: D.C.A.A.	*0.149*			mg/kg dry	*0.196*	*NA*	*76.0*	*50-125*			

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BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904744
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

0904744

BARR *Chain of Custody*

4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number: 23/19-0805.07 SIRI 300

Project Name: UMA-SSI/RI

№ 28810

COC 1 of 1

Project Manager: JSA/JME

Project Contact: KJN/AAN

Sampled by: KCB

Laboratory: Braun

Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: OC	Volatile Organics (Pest.)*1	Semivolatile Organics*2	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	General (Unpreserved)*3	Cyanide (NaOH)	Nutrients (H_2SO_4)*4	Oil and Grease (H_2SO_4)	Sulfide (Zn Acetate)	Methane	Bacteria ($Na_2S_2O_3$)	DRO (HCl)	VOCs (2-oz tared MeOH)*1	GRO, BTEX (2-oz tared MeOH)*1	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.)*2	% Moisture (plastic vial, unpres.)	Total No. Of Containers	Remarks
1. SOC5-SS9-0.5'	9/1/09	850		X	X																			X	X	7	Analyze OC-pest. + List 1+2 pest (MS/MSD not included)
2. FB-1	↓	1030	X		X		X	X																		3	Analyze OC-pest + List 1+2 Pest.
3. SOC5-TT29-5'	↓	1130		X	X																			X	X	3	↓
4.																											
5.																											
6.																											
7.																											
8.																											
9.																											
10.																											
11.																											
12.																											

1.0°C + TB

Common Parameter/Container - Preservation Key
*1 - Volatile Organics = BTEX, GRO, TPH, Full List
*2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
*3 - General = pH, Chloride, Flouride, Alkalinity, TSS, TDS, TS, Sulfate
*4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
[illegible]	Y N	09/09/09	630	[illegible]	9/2/09	1046
Relinquished By:	On Ice? Y N	Date	Time	Received by:	Date	Time

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

H:\RLG\STDFORMS\Chain Of Custody Form RLG Rev. 07/07/05

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Braun Intertec Corporation
11001 Hampshire Avenue S.
Minneapolis, MN 55438

Phone: 952.995.2000
Fax: 952.995.2020
Web: braunintertec.com

Ms. Kelly Neppl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

October 20, 2009

Work Order #: 0904785
(Revised)

RE: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300

Dear Kelly Neppl:

Braun Intertec Corporation received samples for the project identified above on September 03, 2009. Analytical results are summarized in the following report.

All routine quality assurance procedures were followed, unless otherwise noted.

Analytical results are reported on an "as received" basis unless otherwise noted. Where possible, the samples will be retained by the laboratory for 14 days following issuance of the initial final report. The samples will be disposed of or returned at that time. Arrangements can be made for extended storage by contacting me at this time.

We appreciate your decision to use Braun Intertec Corporation for this project. We are committed to being your vendor of choice to meet your analytical chemistry needs.

If you have any questions please contact me at the above phone number.

Sincerely,

Steven J. Albrecht

Steven J. Albrecht
Associate Principal

Certification/Accreditation Numbers

Minnesota Department of Health: 027-053-117 Wisconsin DNR: 999462640

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904785
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

How to Use this Report

In order to get the most out of the information presented in this report please refer to the following explanations as to how the data in this report is tied together and how some of the terms are defined.

Qualifiers and Abbreviations are defined in the following section. You will find these codes used throughout the report in headers and in note sections to designate a unique fact about the data to which they are associated.

The Case Narrative gives a "story" about the analysis and results. Here you will find greater elaboration on relevant qualifiers as well as an explanation of anything of particular note in the data. This is a discussion of the data in terms of quality control and chemistry. It is a summary of any deviations that could affect the usefulness of the data. This is not an interpretation as to how this information relates to regulatory compliance, toxicity, or hazardous characterization. These items are beyond the scope of this report.

The Sample Summary provides detail on sample receipt. The association between Client sample ID and the Laboratory sample ID are defined here; this information is valuable to have when discussing results with your project manager. Sample collection and receipt dates and times are provided here as well. General notes regarding the work order are also documented here. This is a mini "case narrative" that describes any anomalies regarding the condition of the samples upon arrival to the laboratory or special circumstances regarding the work order.

The Conditions Upon Receipt summarizes the results of specific checks that have been performed at sample receipt. This includes items like custody documentation, sample condition, and temperature at receipt. Each "cooler" is identified and the conditions associated with that cooler are documented. A "cooler" is defined as the larger container used to transport the individual samples. In most cases this is a standard recreational cooler but it can be a box, plastic bag, or other container.

The laboratory results are summarized in the following sections. Data is broken down into major categories for convenience. An example of such a category would be "Total Petroleum Hydrocarbons." Here you would find data that references the testing of such parameters as diesel range organics and gasoline range organics. Other categories are similarly mapped. The batch number is associated with each sample. This is important to evaluate Quality Control (QC) data. Surrogate results samples are provided with each sample. Laboratory control limits are provided for comparison (see below). The reference method is also identified. If a method is denoted with an "M" (e.g. EPA 1234(M)) this means that it has been modified. An explanation of the modification will be found in the Case Narrative. A result is given with appropriate units. If a soil sample is dry-weight corrected then the word "dry" will appear next to the units. If the word "dry" does not appear then the result is "as received."

The Method Reporting Limit (MRL) and Method Detection Limit (MDL) are provided. It is important to understand these terms. The MRL is a level that has been empirically verified to provide reliable quantitation of results. Results that are equal to or greater than this value will show up in bold. They are considered "hits." The MDL is a statistically derived number that indicates an estimated concentration at which an analyte can be detected above the noise level. If a result is less than the MRL but greater than the MDL then it is considered an estimate. Such a result is reported with a "J" flag denoting that it has been detected but that the result is an estimate.

In this specific report format, the majority of the analyses are reported without estimated concentrations less than the MRL. For these analyses, if a result is less than the MRL, the result is given as less than the MRL (e.g. if the MRL = 10 then a less than result would be given as "<10"). However, for the Organochlorine Pesticides in water and MDA List 1 Pesticides in water analyses, if a result is less than the MRL but greater than the MDL, then an estimated result is reported with a "J" flag. If a result for either of these two analyses is less than the MDL, then the result is given as less than the MDL.

The Quality Control (QC) samples are documented in the following section. Here you will find the preparation batches associated with each sample from the results section. The sample preparation method is also defined here. Accuracy is represented here in terms of a percent recovery as compared to a known value. Precision is represented as a relative percent difference between two duplicate sample aliquots. The laboratory control limits are provided as a means to evaluate the quality control data. If the result falls outside the laboratory control limits this simply means that it is outside what is typical for the laboratory and is noted accordingly. This does not mean that the data is invalid. Laboratory control limits are generally tighter than most program limits. This is a very important distinction. How the data is ultimately used determines its validity. Program requirements are defined in the Quality Assurance Project Plan (QAPP) governing the project. If your project manager is aware of your specific program requirements then a note will be made in the case narrative if the data fails to meet any of these requirements.

The last section contains copies of important documents and/or instrument printouts relevant to the report. This includes the chain of custody. It also may include items like chromatograms or spectra.

Please note that this report is paginated and must be reproduced in its entirety.

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904785
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Qualifiers and Abbreviations

qn	The spike recovery is outside of laboratory control limits for the matrix spike (MS) and/or the matrix spike duplicate (MSD).
J	Detected but below the Method Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
COC	Chain of Custody
dry	Sample results reported on a dry weight basis
MDL	Method Detection Limit
MRL	Method Reporting Limit
NA	Not Applicable
ND	Analyte NOT DETECTED
NR	Not Reported
%Rec	Percent Recovery
RPD	Relative Percent Difference
VOC	Volatile Organic Compound

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC5-GP4	0904785-01	Water	09/01/09 09:00	09/03/09 10:25
SOC5-GP27 (2-2.5)	0904785-04	Soil	09/01/09 10:45	09/03/09 10:25
SOC5-GP13 (2-2.5)	0904785-06	Soil	09/01/09 12:45	09/03/09 10:25
SOC5-GP12 (2-2.5)	0904785-09	Soil	09/01/09 14:25	09/03/09 10:25
SOC5-GP14 (2-2.5)	0904785-12	Soil	09/01/09 15:45	09/03/09 10:25

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Conditions Upon Receipt

Cooler: Cooler 1

Temperature:	3.7 °C	**COC Included:**	Yes	**Custody Seals Used:**	No
Temperature Blank:	Yes	**COC Complete:**	Yes	**Custody Seals Intact:**	NA
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	No
Preservation Confirmed:	Yes	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

Cooler: Cooler 2

Temperature:	3.1 °C	**COC Included:**	Yes	**Custody Seals Used:**	No
Temperature Blank:	Yes	**COC Complete:**	Yes	**Custody Seals Intact:**	NA
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	No
Preservation Confirmed:	Yes	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-GP4

0904785-01 (Water)

9/1/09 9:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Total Kjeldahl Nitrogen	<2.0	2.0	0.69	mg/L	B9I0146	9/8/09 15:23	9/11/09 10:36	EPA 351.2	
Nitrate + Nitrite as N	**8.4**	0.10	0.034	mg/L	B9I0178	9/10/09 6:43	9/10/09 10:33	SM4500 NO3F	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.016	0.25	0.016	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:44	EPA 8081A	
4,4'-DDE	<0.016	0.25	0.016	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:44	EPA 8081A	
4,4'-DDT	<0.020	0.25	0.020	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:44	EPA 8081A	
Aldrin	<0.018	0.25	0.018	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:44	EPA 8081A	
alpha-BHC	<0.021	0.25	0.021	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:44	EPA 8081A	
alpha-Chlordane	<0.016	0.25	0.016	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:44	EPA 8081A	
beta-BHC	<0.016	0.25	0.016	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:44	EPA 8081A	
delta-BHC	<0.014	0.25	0.014	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:44	EPA 8081A	
Dieldrin	<0.024	0.25	0.024	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:44	EPA 8081A	
Endosulfan I	<0.021	0.25	0.021	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:44	EPA 8081A	
Endosulfan II	<0.019	0.25	0.019	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:44	EPA 8081A	
Endosulfan Sulfate	<0.019	0.25	0.019	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:44	EPA 8081A	
Endrin	<0.020	0.25	0.020	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:44	EPA 8081A	
Endrin Aldehyde	<0.040	0.25	0.040	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:44	EPA 8081A	
Endrin Ketone	<0.019	0.25	0.019	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:44	EPA 8081A	
gamma-BHC	<0.020	0.25	0.020	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:44	EPA 8081A	
gamma-Chlordane	<0.042	0.25	0.042	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:44	EPA 8081A	
Heptachlor	<0.018	0.25	0.018	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:44	EPA 8081A	
Heptachlor Epoxide	<0.038	0.25	0.038	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:44	EPA 8081A	
Methoxychlor	<0.026	0.25	0.026	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:44	EPA 8081A	
Toxaphene	<1.0	5.0	1.0	ug/L	B9I0106	9/8/09 5:50	9/9/09 2:44	EPA 8081A	
Surr: DBC	*85.3 %*	*Limits: 40-130%*			*B9I0106*	*9/8/09 5:50*	*9/9/09 2:44*	*EPA 8081A*	
Surr: TCMX	*81.3 %*	*Limits: 40-120%*			*B9I0106*	*9/8/09 5:50*	*9/9/09 3:10*	*EPA 8081A*	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-GP4

0904785-01 (Water)

9/1/09 9:00

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.28	0.57	0.28	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:53	EPA 8270C	
Alachlor	<0.21	0.57	0.21	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:53	EPA 8270C	
Atrazine	**1.0**	0.57	0.27	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:53	EPA 8270C	
Chlorpyrifos	<0.38	0.57	0.38	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:53	EPA 8270C	
Cyanazine	<0.55	0.57	0.55	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:53	EPA 8270C	
Deisopropylatrazine	<0.29	0.57	0.29	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:53	EPA 8270C	
Desethylatrazine	**0.70**	0.57	0.33	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:53	EPA 8270C	
Dimethenamid	<0.27	0.57	0.27	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:53	EPA 8270C	
EPTC	<0.24	0.57	0.24	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:53	EPA 8270C	
Ethalfluralin	<0.53	0.57	0.53	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:53	EPA 8270C	
Fonofos	<0.34	0.57	0.34	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:53	EPA 8270C	
Metolachlor	<0.31	0.57	0.31	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:53	EPA 8270C	
Metribuzin	<0.40	0.57	0.40	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:53	EPA 8270C	
Pendimethalin	<0.29	0.57	0.29	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:53	EPA 8270C	
Phorate	<0.66	1.1	0.66	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:53	EPA 8270C	
Prometon	<0.33	0.57	0.33	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:53	EPA 8270C	
Propachlor	<0.16	0.57	0.16	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:53	EPA 8270C	
Propazine	<0.23	0.57	0.23	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:53	EPA 8270C	
Simazine	<0.36	0.57	0.36	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:53	EPA 8270C	
Terbufos	<0.62	1.1	0.62	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:53	EPA 8270C	
Triallate	<0.38	0.57	0.38	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:53	EPA 8270C	
Trifluralin	<0.24	0.57	0.24	ug/L	B9I0097	9/5/09 6:22	9/8/09 19:53	EPA 8270C	
Surr: Atrazine-d5	*93.1 %*	*Limits: 50-120%*			*B9I0097*	*9/5/09 6:22*	*9/8/09 19:53*	*EPA 8270C*	
Surr: Diazinon-d10	*92.0 %*	*Limits: 50-120%*			*B9I0097*	*9/5/09 6:22*	*9/8/09 19:53*	*EPA 8270C*	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-GP4

0904785-01 (Water)

9/1/09 9:00

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.61	0.61	0.38	ug/L	B9I0107	9/8/09 5:56	9/10/09 13:43	EPA 8270C	
2,4,5-T.P.	<0.61	0.61	0.35	ug/L	B9I0107	9/8/09 5:56	9/10/09 13:43	EPA 8270C	
2,4-D	<0.61	0.61	0.32	ug/L	B9I0107	9/8/09 5:56	9/10/09 13:43	EPA 8270C	
2,4-D.B.	<0.61	0.61	0.18	ug/L	B9I0107	9/8/09 5:56	9/10/09 13:43	EPA 8270C	
Bentazon	<0.61	0.61	0.28	ug/L	B9I0107	9/8/09 5:56	9/10/09 13:43	EPA 8270C	
Dicamba	<0.61	0.61	0.47	ug/L	B9I0107	9/8/09 5:56	9/10/09 13:43	EPA 8270C	
Dinoseb	<1.2	1.2	0.42	ug/L	B9I0107	9/8/09 5:56	9/10/09 13:43	EPA 8270C	
M.C.P.A.	<0.37	0.37	0.36	ug/L	B9I0107	9/8/09 5:56	9/10/09 13:43	EPA 8270C	qn
Pentachlorophenol	<0.61	0.61	0.48	ug/L	B9I0107	9/8/09 5:56	9/10/09 13:43	EPA 8270C	qn
Picloram	<0.61	0.61	0.31	ug/L	B9I0107	9/8/09 5:56	9/10/09 13:43	EPA 8270C	
Triclopyr	<0.61	0.61	0.50	ug/L	B9I0107	9/8/09 5:56	9/10/09 13:43	EPA 8270C	
Surr: D.C.A.A.	*79.4 %*	*Limits: 65-130%*			*B9I0107*	*9/8/09 5:56*	*9/10/09 13:43*	*EPA 8270C*	

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UMP018574

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-GP27 (2-2.5)

0904785-04 (Soil)

9/1/09 10:45

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**91**	0.050	0.010	% Wt	B9I0086	9/4/09 7:56	9/4/09 14:29	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.027	0.027	0.0016	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:02	EPA 8081A	
4,4'-DDE	<0.027	0.027	0.0028	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:02	EPA 8081A	
4,4'-DDT	<0.027	0.027	0.0025	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:02	EPA 8081A	
Aldrin	<0.027	0.027	0.0034	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:02	EPA 8081A	
alpha-BHC	<0.027	0.027	0.0025	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:02	EPA 8081A	
alpha-Chlordane	<0.027	0.027	0.0021	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:02	EPA 8081A	
beta-BHC	<0.027	0.027	0.0025	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:02	EPA 8081A	
delta-BHC	<0.027	0.027	0.0019	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:02	EPA 8081A	
Dieldrin	<0.027	0.027	0.0024	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:02	EPA 8081A	
Endosulfan I	<0.027	0.027	0.0030	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:02	EPA 8081A	
Endosulfan II	<0.027	0.027	0.0022	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:02	EPA 8081A	
Endosulfan Sulfate	<0.027	0.027	0.0025	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:02	EPA 8081A	
Endrin	<0.027	0.027	0.0030	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:02	EPA 8081A	
Endrin Aldehyde	<0.027	0.027	0.010	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:02	EPA 8081A	
Endrin Ketone	<0.027	0.027	0.0033	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:02	EPA 8081A	
gamma-BHC	<0.027	0.027	0.0027	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:02	EPA 8081A	
gamma-Chlordane	<0.027	0.027	0.0018	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:02	EPA 8081A	
Heptachlor	<0.027	0.027	0.0058	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:02	EPA 8081A	
Heptachlor Epoxide	<0.027	0.027	0.0046	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:02	EPA 8081A	
Methoxychlor	<0.027	0.027	0.0022	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:28	EPA 8081A	
Toxaphene	<0.54	0.54	0.10	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:02	EPA 8081A	
Surr: DBC	*104 %*	*Limits: 40-160%*			*B9I0141*	*9/8/09 14:58*	*9/10/09 4:28*	*EPA 8081A*	
Surr: TCMX	*92.8 %*	*Limits: 60-130%*			*B9I0141*	*9/8/09 14:58*	*9/10/09 4:02*	*EPA 8081A*	

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UMP018575

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904785
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-GP27 (2-2.5)

0904785-04 (Soil)

9/1/09 10:45

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.044	0.044	0.011	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:27	EPA 8270C	
Alachlor	<0.044	0.044	0.0077	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:27	EPA 8270C	
Atrazine	<0.044	0.044	0.011	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:27	EPA 8270C	
Chlorpyrifos	<0.044	0.044	0.0077	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:27	EPA 8270C	
Cyanazine	<0.044	0.044	0.0088	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:27	EPA 8270C	
Deisopropylatrazine	<0.044	0.044	0.0088	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:27	EPA 8270C	
Desethylatrazine	<0.044	0.044	0.012	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:27	EPA 8270C	
Dimethenamid	<0.044	0.044	0.0066	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:27	EPA 8270C	
EPTC	<0.044	0.044	0.0066	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:27	EPA 8270C	
Ethalfluralin	<0.044	0.044	0.015	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:27	EPA 8270C	
Fonofos	<0.044	0.044	0.0044	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:27	EPA 8270C	
Metolachlor	<0.044	0.044	0.0033	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:27	EPA 8270C	
Metribuzin	<0.044	0.044	0.0099	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:27	EPA 8270C	
Pendimethalin	<0.044	0.044	0.018	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:27	EPA 8270C	
Phorate	<0.044	0.044	0.0066	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:27	EPA 8270C	
Prometon	<0.044	0.044	0.0066	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:27	EPA 8270C	
Propachlor	<0.044	0.044	0.0099	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:27	EPA 8270C	
Propazine	<0.044	0.044	0.0077	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:27	EPA 8270C	
Simazine	<0.044	0.044	0.0099	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:27	EPA 8270C	
Terbufos	<0.044	0.044	0.0099	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:27	EPA 8270C	
Triallate	<0.044	0.044	0.0055	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:27	EPA 8270C	
Trifluralin	<0.044	0.044	0.015	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:27	EPA 8270C	
Surr: Atrazine-d5	*88.9 %*	*Limits: 50-125%*			*B9I0227*	*9/13/09 16:39*	*9/14/09 22:27*	*EPA 8270C*	
Surr: Diazinon-d10	*85.0 %*	*Limits: 35-120%*			*B9I0227*	*9/13/09 16:39*	*9/14/09 22:27*	*EPA 8270C*	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.055	0.055	0.0099	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 19:36	EPA 8270C	
2,4,5-T.P.	<0.055	0.055	0.0077	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 19:36	EPA 8270C	
2,4-D	<0.055	0.055	0.013	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 19:36	EPA 8270C	
2,4-D.B.	<0.055	0.055	0.012	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 19:36	EPA 8270C	
Bentazon	<0.055	0.055	0.0099	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 19:36	EPA 8270C	
Dicamba	<0.055	0.055	0.0088	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 19:36	EPA 8270C	
Dinoseb	<0.055	0.055	0.0055	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 19:36	EPA 8270C	
M.C.P.A.	<0.055	0.055	0.015	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 19:36	EPA 8270C	
Pentachlorophenol	<0.055	0.055	0.0077	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 19:36	EPA 8270C	
Picloram	<0.055	0.055	0.012	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 19:36	EPA 8270C	qn
Triclopyr	<0.055	0.055	0.0066	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 19:36	EPA 8270C	
Surr: D.C.A.A.	*75.8 %*	*Limits: 50-125%*			*B9I0256*	*9/14/09 9:00*	*9/17/09 19:36*	*EPA 8270C*	

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UMP018576

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904785
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-GP13 (2-2.5)

0904785-06 (Soil)

9/1/09 12:45

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**79**	0.050	0.010	% Wt	B9I0086	9/4/09 7:56	9/4/09 14:29	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.030	0.030	0.0018	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:28	EPA 8081A	
4,4'-DDE	<0.030	0.030	0.0031	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:28	EPA 8081A	
4,4'-DDT	<0.030	0.030	0.0027	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:54	EPA 8081A	
Aldrin	<0.030	0.030	0.0038	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:28	EPA 8081A	
alpha-BHC	<0.030	0.030	0.0027	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:28	EPA 8081A	
alpha-Chlordane	<0.030	0.030	0.0024	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:28	EPA 8081A	
beta-BHC	<0.030	0.030	0.0027	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:28	EPA 8081A	
delta-BHC	<0.030	0.030	0.0021	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:28	EPA 8081A	
Dieldrin	<0.030	0.030	0.0026	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:28	EPA 8081A	
Endosulfan I	<0.030	0.030	0.0033	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:28	EPA 8081A	
Endosulfan II	<0.030	0.030	0.0025	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:28	EPA 8081A	
Endosulfan Sulfate	<0.030	0.030	0.0027	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:28	EPA 8081A	
Endrin	<0.030	0.030	0.0033	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:28	EPA 8081A	
Endrin Aldehyde	<0.030	0.030	0.011	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:28	EPA 8081A	
Endrin Ketone	<0.030	0.030	0.0037	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:28	EPA 8081A	
gamma-BHC	<0.030	0.030	0.0030	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:28	EPA 8081A	
gamma-Chlordane	<0.030	0.030	0.0020	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:28	EPA 8081A	
Heptachlor	<0.030	0.030	0.0064	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:28	EPA 8081A	
Heptachlor Epoxide	<0.030	0.030	0.0051	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:28	EPA 8081A	
Methoxychlor	<0.030	0.030	0.0025	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:54	EPA 8081A	
Toxaphene	<0.59	0.59	0.11	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:28	EPA 8081A	
Surr: DBC	*86.8 %*	*Limits: 40-160%*			*B9I0141*	*9/8/09 14:58*	*9/10/09 4:28*	*EPA 8081A*	
Surr: TCMX	*80.2 %*	*Limits: 60-130%*			*B9I0141*	*9/8/09 14:58*	*9/10/09 4:28*	*EPA 8081A*	

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UMP018577

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904785
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-GP13 (2-2.5)

0904785-06 (Soil)

9/1/09 12:45

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.051	0.051	0.013	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:52	EPA 8270C	
Alachlor	<0.051	0.051	0.0089	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:52	EPA 8270C	
Atrazine	<0.051	0.051	0.013	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:52	EPA 8270C	
Chlorpyrifos	<0.051	0.051	0.0089	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:52	EPA 8270C	
Cyanazine	<0.051	0.051	0.010	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:52	EPA 8270C	
Deisopropylatrazine	<0.051	0.051	0.010	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:52	EPA 8270C	
Desethylatrazine	<0.051	0.051	0.014	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:52	EPA 8270C	
Dimethenamid	<0.051	0.051	0.0076	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:52	EPA 8270C	
EPTC	<0.051	0.051	0.0076	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:52	EPA 8270C	
Ethalfluralin	<0.051	0.051	0.018	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:52	EPA 8270C	
Fonofos	<0.051	0.051	0.0051	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:52	EPA 8270C	
Metolachlor	<0.051	0.051	0.0038	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:52	EPA 8270C	
Metribuzin	<0.051	0.051	0.011	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:52	EPA 8270C	
Pendimethalin	<0.051	0.051	0.020	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:52	EPA 8270C	
Phorate	<0.051	0.051	0.0076	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:52	EPA 8270C	
Prometon	<0.051	0.051	0.0076	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:52	EPA 8270C	
Propachlor	<0.051	0.051	0.011	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:52	EPA 8270C	
Propazine	<0.051	0.051	0.0089	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:52	EPA 8270C	
Simazine	<0.051	0.051	0.011	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:52	EPA 8270C	
Terbufos	<0.051	0.051	0.011	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:52	EPA 8270C	
Triallate	<0.051	0.051	0.0063	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:52	EPA 8270C	
Trifluralin	<0.051	0.051	0.018	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 22:52	EPA 8270C	
Surr: Atrazine-d5	*87.4 %*	*Limits: 50-125%*			*B9I0227*	*9/13/09 16:39*	*9/14/09 22:52*	*EPA 8270C*	
Surr: Diazinon-d10	*77.0 %*	*Limits: 35-120%*			*B9I0227*	*9/13/09 16:39*	*9/14/09 22:52*	*EPA 8270C*	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.063	0.063	0.011	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 20:01	EPA 8270C	
2,4,5-T.P.	<0.063	0.063	0.0089	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 20:01	EPA 8270C	
2,4-D	<0.063	0.063	0.015	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 20:01	EPA 8270C	
2,4-D.B.	<0.063	0.063	0.014	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 20:01	EPA 8270C	
Bentazon	<0.063	0.063	0.011	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 20:01	EPA 8270C	
Dicamba	<0.063	0.063	0.010	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 20:01	EPA 8270C	
Dinoseb	<0.063	0.063	0.0063	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 20:01	EPA 8270C	
M.C.P.A.	<0.063	0.063	0.018	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 20:01	EPA 8270C	
Pentachlorophenol	<0.063	0.063	0.0089	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 20:01	EPA 8270C	
Picloram	<0.063	0.063	0.014	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 20:01	EPA 8270C	qn
Triclopyr	<0.063	0.063	0.0076	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 20:01	EPA 8270C	
Surr: D.C.A.A.	*76.2 %*	*Limits: 50-125%*			*B9I0256*	*9/14/09 9:00*	*9/17/09 20:01*	*EPA 8270C*	

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UMP018578

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904785
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-GP12 (2-2.5)

0904785-09 (Soil)

9/1/09 14:25

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**77**	0.050	0.010	% Wt	B9I0086	9/4/09 7:56	9/4/09 14:29	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.033	0.033	0.0020	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:54	EPA 8081A	
4,4'-DDE	<0.033	0.033	0.0034	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:54	EPA 8081A	
4,4'-DDT	<0.033	0.033	0.0030	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:20	EPA 8081A	
Aldrin	<0.033	0.033	0.0042	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:54	EPA 8081A	
alpha-BHC	<0.033	0.033	0.0030	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:54	EPA 8081A	
alpha-Chlordane	<0.033	0.033	0.0026	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:54	EPA 8081A	
beta-BHC	<0.033	0.033	0.0030	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:54	EPA 8081A	
delta-BHC	<0.033	0.033	0.0024	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:54	EPA 8081A	
Dieldrin	<0.033	0.033	0.0029	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:54	EPA 8081A	
Endosulfan I	<0.033	0.033	0.0037	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:54	EPA 8081A	
Endosulfan II	<0.033	0.033	0.0027	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:54	EPA 8081A	
Endosulfan Sulfate	<0.033	0.033	0.0030	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:54	EPA 8081A	
Endrin	<0.033	0.033	0.0037	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:54	EPA 8081A	
Endrin Aldehyde	<0.033	0.033	0.013	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:54	EPA 8081A	
Endrin Ketone	<0.033	0.033	0.0041	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:54	EPA 8081A	
gamma-BHC	<0.033	0.033	0.0033	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:54	EPA 8081A	
gamma-Chlordane	<0.033	0.033	0.0022	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:54	EPA 8081A	
Heptachlor	<0.033	0.033	0.0071	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:54	EPA 8081A	
Heptachlor Epoxide	<0.033	0.033	0.0056	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:54	EPA 8081A	
Methoxychlor	<0.033	0.033	0.0027	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:54	EPA 8081A	
Toxaphene	<0.65	0.65	0.13	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 4:54	EPA 8081A	
Surr: DBC	*85.1 %*	*Limits: 40-160%*			*B9I0141*	*9/8/09 14:58*	*9/10/09 5:20*	*EPA 8081A*	
Surr: TCMX	*72.6 %*	*Limits: 60-130%*			*B9I0141*	*9/8/09 14:58*	*9/10/09 5:20*	*EPA 8081A*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904785
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-GP12 (2-2.5)

0904785-09 (Soil)

9/1/09 14:25

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.052	0.052	0.013	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:18	EPA 8270C	
Alachlor	<0.052	0.052	0.0091	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:18	EPA 8270C	
Atrazine	<0.052	0.052	0.013	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:18	EPA 8270C	
Chlorpyrifos	<0.052	0.052	0.0091	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:18	EPA 8270C	
Cyanazine	<0.052	0.052	0.010	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:18	EPA 8270C	
Deisopropylatrazine	<0.052	0.052	0.010	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:18	EPA 8270C	
Desethylatrazine	<0.052	0.052	0.014	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:18	EPA 8270C	
Dimethenamid	<0.052	0.052	0.0078	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:18	EPA 8270C	
EPTC	<0.052	0.052	0.0078	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:18	EPA 8270C	
Ethalfluralin	<0.052	0.052	0.018	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:18	EPA 8270C	
Fonofos	<0.052	0.052	0.0052	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:18	EPA 8270C	
Metolachlor	<0.052	0.052	0.0039	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:18	EPA 8270C	
Metribuzin	<0.052	0.052	0.012	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:18	EPA 8270C	
Pendimethalin	<0.052	0.052	0.021	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:18	EPA 8270C	
Phorate	<0.052	0.052	0.0078	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:18	EPA 8270C	
Prometon	<0.052	0.052	0.0078	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:18	EPA 8270C	
Propachlor	<0.052	0.052	0.012	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:18	EPA 8270C	
Propazine	<0.052	0.052	0.0091	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:18	EPA 8270C	
Simazine	<0.052	0.052	0.012	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:18	EPA 8270C	
Terbufos	<0.052	0.052	0.012	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:18	EPA 8270C	
Triallate	<0.052	0.052	0.0065	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:18	EPA 8270C	
Trifluralin	<0.052	0.052	0.018	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:18	EPA 8270C	
Surr: Atrazine-d5	*76.0 %*	*Limits: 50-125%*			*B9I0227*	*9/13/09 16:39*	*9/14/09 23:18*	*EPA 8270C*	
Surr: Diazinon-d10	*70.1 %*	*Limits: 35-120%*			*B9I0227*	*9/13/09 16:39*	*9/14/09 23:18*	*EPA 8270C*	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.065	0.065	0.012	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 20:26	EPA 8270C	
2,4,5-T.P.	<0.065	0.065	0.0091	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 20:26	EPA 8270C	
2,4-D	<0.065	0.065	0.016	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 20:26	EPA 8270C	
2,4-D.B.	<0.065	0.065	0.014	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 20:26	EPA 8270C	
Bentazon	<0.065	0.065	0.012	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 20:26	EPA 8270C	
Dicamba	<0.065	0.065	0.010	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 20:26	EPA 8270C	
Dinoseb	<0.065	0.065	0.0065	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 20:26	EPA 8270C	
M.C.P.A.	<0.065	0.065	0.018	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 20:26	EPA 8270C	
Pentachlorophenol	<0.065	0.065	0.0091	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 20:26	EPA 8270C	
Picloram	<0.065	0.065	0.014	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 20:26	EPA 8270C	qn
Triclopyr	<0.065	0.065	0.0078	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 20:26	EPA 8270C	
Surr: D.C.A.A.	*80.8 %*	*Limits: 50-125%*			*B9I0256*	*9/14/09 9:00*	*9/17/09 20:26*	*EPA 8270C*	

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UMP018580

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904785
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-GP14 (2-2.5)

0904785-12 (Soil)

9/1/09 15:45

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**84**	0.050	0.010	% Wt	B9I0086	9/4/09 7:56	9/4/09 14:29	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.027	0.027	0.0016	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:20	EPA 8081A	
4,4'-DDE	<0.027	0.027	0.0029	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:20	EPA 8081A	
4,4'-DDT	<0.027	0.027	0.0025	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:20	EPA 8081A	
Aldrin	<0.027	0.027	0.0035	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:20	EPA 8081A	
alpha-BHC	<0.027	0.027	0.0025	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:20	EPA 8081A	
alpha-Chlordane	<0.027	0.027	0.0022	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:20	EPA 8081A	
beta-BHC	<0.027	0.027	0.0025	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:20	EPA 8081A	
delta-BHC	<0.027	0.027	0.0020	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:20	EPA 8081A	
Dieldrin	<0.027	0.027	0.0024	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:20	EPA 8081A	
Endosulfan I	<0.027	0.027	0.0031	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:20	EPA 8081A	
Endosulfan II	<0.027	0.027	0.0023	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:20	EPA 8081A	
Endosulfan Sulfate	<0.027	0.027	0.0025	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:20	EPA 8081A	
Endrin	<0.027	0.027	0.0031	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:20	EPA 8081A	
Endrin Aldehyde	<0.027	0.027	0.011	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:20	EPA 8081A	
Endrin Ketone	<0.027	0.027	0.0034	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:20	EPA 8081A	
gamma-BHC	<0.027	0.027	0.0027	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:20	EPA 8081A	
gamma-Chlordane	<0.027	0.027	0.0019	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:20	EPA 8081A	
Heptachlor	<0.027	0.027	0.0059	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:20	EPA 8081A	
Heptachlor Epoxide	<0.027	0.027	0.0047	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:20	EPA 8081A	
Methoxychlor	<0.027	0.027	0.0023	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:46	EPA 8081A	
Toxaphene	<0.55	0.55	0.11	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:20	EPA 8081A	
Surr: DBC	*75.4 %*	*Limits: 40-160%*			*B9I0141*	*9/8/09 14:58*	*9/10/09 5:46*	*EPA 8081A*	
Surr: TCMX	*71.4 %*	*Limits: 60-130%*			*B9I0141*	*9/8/09 14:58*	*9/10/09 5:20*	*EPA 8081A*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904785
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-GP14 (2-2.5)

0904785-12 (Soil)

9/1/09 15:45

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.047	0.047	0.012	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:44	EPA 8270C	
Alachlor	<0.047	0.047	0.0083	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:44	EPA 8270C	
Atrazine	<0.047	0.047	0.012	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:44	EPA 8270C	
Chlorpyrifos	<0.047	0.047	0.0083	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:44	EPA 8270C	
Cyanazine	<0.047	0.047	0.0095	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:44	EPA 8270C	
Deisopropylatrazine	<0.047	0.047	0.0095	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:44	EPA 8270C	
Desethylatrazine	<0.047	0.047	0.013	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:44	EPA 8270C	
Dimethenamid	<0.047	0.047	0.0071	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:44	EPA 8270C	
EPTC	<0.047	0.047	0.0071	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:44	EPA 8270C	
Ethalfluralin	<0.047	0.047	0.017	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:44	EPA 8270C	
Fonofos	<0.047	0.047	0.0047	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:44	EPA 8270C	
Metolachlor	<0.047	0.047	0.0036	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:44	EPA 8270C	
Metribuzin	<0.047	0.047	0.011	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:44	EPA 8270C	
Pendimethalin	<0.047	0.047	0.019	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:44	EPA 8270C	
Phorate	<0.047	0.047	0.0071	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:44	EPA 8270C	
Prometon	<0.047	0.047	0.0071	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:44	EPA 8270C	
Propachlor	<0.047	0.047	0.011	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:44	EPA 8270C	
Propazine	<0.047	0.047	0.0083	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:44	EPA 8270C	
Simazine	<0.047	0.047	0.011	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:44	EPA 8270C	
Terbufos	<0.047	0.047	0.011	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:44	EPA 8270C	
Triallate	<0.047	0.047	0.0059	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:44	EPA 8270C	
Trifluralin	<0.047	0.047	0.017	mg/kg dry	B9I0227	9/13/09 16:39	9/14/09 23:44	EPA 8270C	
Surr: Atrazine-d5	*89.6 %*	*Limits: 50-125%*			*B9I0227*	*9/13/09 16:39*	*9/14/09 23:44*	*EPA 8270C*	
Surr: Diazinon-d10	*87.7 %*	*Limits: 35-120%*			*B9I0227*	*9/13/09 16:39*	*9/14/09 23:44*	*EPA 8270C*	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.058	0.058	0.010	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 20:51	EPA 8270C	
2,4,5-T.P.	<0.058	0.058	0.0081	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 20:51	EPA 8270C	
2,4-D	<0.058	0.058	0.014	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 20:51	EPA 8270C	
2,4-D.B.	<0.058	0.058	0.013	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 20:51	EPA 8270C	
Bentazon	<0.058	0.058	0.010	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 20:51	EPA 8270C	
Dicamba	<0.058	0.058	0.0093	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 20:51	EPA 8270C	
Dinoseb	<0.058	0.058	0.0058	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 20:51	EPA 8270C	
M.C.P.A.	<0.058	0.058	0.016	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 20:51	EPA 8270C	
Pentachlorophenol	<0.058	0.058	0.0081	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 20:51	EPA 8270C	
Picloram	<0.058	0.058	0.013	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 20:51	EPA 8270C	qn
Triclopyr	<0.058	0.058	0.0070	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 20:51	EPA 8270C	
Surr: D.C.A.A.	*83.0 %*	*Limits: 50-125%*			*B9I0256*	*9/14/09 9:00*	*9/17/09 20:51*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904785
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Classical Chemistry Parameters - Quality Control

Batch B9I0086 - % Solids

Method Blank (B9I0086-BLK1)

Prepared & Analyzed: 09/04/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	<0.050	0.050	0.010	% Wt	NA	NA	NA	NA	NA	NA	

Duplicate (B9I0086-DUP1)

Source: 0904775-01 Prepared & Analyzed: 09/04/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	97.0	0.050	0.010	% Wt	NA	96.9	NA	NA	0.126	20	

Standard Reference Material (B9I0086-SRM1)

Prepared & Analyzed: 09/04/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	88.1			% Wt	91.3	NA	96.5	90-110	NA	NA	

Batch B9I0146 - EPA 351.2

Method Blank (B9I0146-BLK1)

Prepared: 09/08/09 Analyzed: 09/11/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	<0.50	0.50	0.17	mg/L	NA	NA	NA	NA	NA	NA	

Laboratory Control Sample (B9I0146-BS1)

Prepared: 09/08/09 Analyzed: 09/11/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	2.54	0.50	0.17	mg/L	2.50	NA	102	90-110	NA	NA	

Laboratory Control Sample Duplicate (B9I0146-BSD1)

Prepared: 09/08/09 Analyzed: 09/11/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	2.66	0.50	0.17	mg/L	2.50	NA	106	90-110	4.46	20	

Matrix Spike (B9I0146-MS1)

Source: 0904778-01 Prepared: 09/08/09 Analyzed: 09/11/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	4.23	0.50	0.17	mg/L	2.50	1.99	89.4	90-110	NA	NA	

Matrix Spike Duplicate (B9I0146-MSD1)

Source: 0904778-01 Prepared: 09/08/09 Analyzed: 09/11/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	4.08	0.50	0.17	mg/L	2.50	1.99	83.4	90-110	3.59	20	

Batch B9I0178 - NO PREP

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BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904785
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Classical Chemistry Parameters - Quality Control

Batch B9I0178 - NO PREP

Method Blank (B9I0178-BLK1)

Prepared & Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	<0.020	0.020	0.0069	mg/L	NA	NA	NA	NA	NA	NA	

Laboratory Control Sample (B9I0178-BS1)

Prepared & Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	0.486	0.020	0.0069	mg/L	0.500	NA	97.1	80-120	NA	NA	

Laboratory Control Sample Duplicate (B9I0178-BSD1)

Prepared & Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	0.539	0.020	0.0069	mg/L	0.500	NA	108	80-120	10.4	20	

Matrix Spike (B9I0178-MS1)

Source: 0904730-03

Prepared & Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	0.568	0.020	0.0069	mg/L	0.500	ND	114	75-125	NA	NA	

Matrix Spike Duplicate (B9I0178-MSD1)

Source: 0904730-03

Prepared & Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	0.564	0.020	0.0069	mg/L	0.500	ND	113	75-125	0.866	20	

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0106 - EPA 3510C

Method Blank (B9I0106-BLK1)

Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
4,4'-DDE	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
4,4'-DDT	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
Aldrin	<0.018	0.25	0.018	ug/L	NA	NA	NA	NA	NA	NA	
alpha-BHC	<0.021	0.25	0.021	ug/L	NA	NA	NA	NA	NA	NA	
alpha-Chlordane	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
beta-BHC	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
delta-BHC	<0.014	0.25	0.014	ug/L	NA	NA	NA	NA	NA	NA	
Dieldrin	<0.024	0.25	0.024	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan I	<0.021	0.25	0.021	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan II	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan Sulfate	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
Endrin	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
Endrin Aldehyde	<0.040	0.25	0.040	ug/L	NA	NA	NA	NA	NA	NA	
Endrin Ketone	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
gamma-BHC	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
gamma-Chlordane	<0.042	0.25	0.042	ug/L	NA	NA	NA	NA	NA	NA	
Heptachlor	<0.018	0.25	0.018	ug/L	NA	NA	NA	NA	NA	NA	
Heptachlor Epoxide	<0.038	0.25	0.038	ug/L	NA	NA	NA	NA	NA	NA	
Methoxychlor	<0.026	0.25	0.026	ug/L	NA	NA	NA	NA	NA	NA	
Toxaphene	<1.0	5.0	1.0	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: DBC	*2.22*			ug/L	*2.50*	*NA*	*88.9*	*40-130*			
Surrogate: TCMX	*1.97*			ug/L	*2.50*	*NA*	*78.7*	*40-120*			

Laboratory Control Sample (B9I0106-BS1)

Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.60	0.25	0.016	ug/L	2.50	NA	104	80-120	NA	NA	
4,4'-DDE	2.51	0.25	0.016	ug/L	2.50	NA	100	80-120	NA	NA	
4,4'-DDT	2.66	0.25	0.020	ug/L	2.50	NA	106	80-120	NA	NA	
Aldrin	2.35	0.25	0.018	ug/L	2.50	NA	94.1	60-110	NA	NA	
alpha-BHC	2.54	0.25	0.021	ug/L	2.50	NA	102	70-120	NA	NA	
alpha-Chlordane	2.58	0.25	0.016	ug/L	2.50	NA	103	80-120	NA	NA	
beta-BHC	2.60	0.25	0.016	ug/L	2.50	NA	104	80-120	NA	NA	
delta-BHC	2.60	0.25	0.014	ug/L	2.50	NA	104	80-120	NA	NA	
Dieldrin	2.61	0.25	0.024	ug/L	2.50	NA	104	80-120	NA	NA	
Endosulfan I	2.59	0.25	0.021	ug/L	2.50	NA	104	80-120	NA	NA	
Endosulfan II	2.61	0.25	0.019	ug/L	2.50	NA	105	80-120	NA	NA	
Endosulfan Sulfate	2.61	0.25	0.019	ug/L	2.50	NA	104	80-120	NA	NA	
Endrin	2.64	0.25	0.020	ug/L	2.50	NA	105	80-120	NA	NA	
Endrin Aldehyde	2.82	0.25	0.040	ug/L	2.50	NA	113	80-120	NA	NA	
Endrin Ketone	2.62	0.25	0.019	ug/L	2.50	NA	105	80-120	NA	NA	
gamma-BHC	2.56	0.25	0.020	ug/L	2.50	NA	103	80-120	NA	NA	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0106 - EPA 3510C

Laboratory Control Sample (B9I0106-BS1)

Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
gamma-Chlordane	2.58	0.25	0.042	ug/L	2.50	NA	103	80-120	NA	NA	
Heptachlor	2.50	0.25	0.018	ug/L	2.50	NA	100	60-110	NA	NA	
Heptachlor Epoxide	2.59	0.25	0.038	ug/L	2.50	NA	104	80-120	NA	NA	
Methoxychlor	2.67	0.25	0.026	ug/L	2.50	NA	107	80-120	NA	NA	
Surrogate: DBC	*2.40*			ug/L	*2.50*	*NA*	*95.9*	*40-130*			
Surrogate: TCMX	*2.31*			ug/L	*2.50*	*NA*	*92.4*	*40-120*			

Laboratory Control Sample Duplicate (B9I0106-BSD1)

Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.47	0.25	0.016	ug/L	2.50	NA	98.7	80-120	5.20	25	
4,4'-DDE	2.35	0.25	0.016	ug/L	2.50	NA	93.9	80-120	6.77	25	
4,4'-DDT	2.54	0.25	0.020	ug/L	2.50	NA	102	80-120	4.54	25	
Aldrin	2.07	0.25	0.018	ug/L	2.50	NA	82.8	60-110	12.7	25	
alpha-BHC	2.30	0.25	0.021	ug/L	2.50	NA	91.9	70-120	9.95	25	
alpha-Chlordane	2.42	0.25	0.016	ug/L	2.50	NA	97.0	80-120	6.07	25	
beta-BHC	2.47	0.25	0.016	ug/L	2.50	NA	98.8	80-120	5.22	25	
delta-BHC	2.48	0.25	0.014	ug/L	2.50	NA	99.3	80-120	4.62	25	
Dieldrin	2.47	0.25	0.024	ug/L	2.50	NA	98.7	80-120	5.57	25	
Endosulfan I	2.44	0.25	0.021	ug/L	2.50	NA	97.6	80-120	5.87	25	
Endosulfan II	2.49	0.25	0.019	ug/L	2.50	NA	99.5	80-120	4.93	25	
Endosulfan Sulfate	2.48	0.25	0.019	ug/L	2.50	NA	99.2	80-120	5.22	25	
Endrin	2.48	0.25	0.020	ug/L	2.50	NA	99.2	80-120	6.15	25	
Endrin Aldehyde	2.67	0.25	0.040	ug/L	2.50	NA	107	80-120	5.43	25	
Endrin Ketone	2.51	0.25	0.019	ug/L	2.50	NA	100	80-120	4.53	25	
gamma-BHC	2.38	0.25	0.020	ug/L	2.50	NA	95.3	80-120	7.39	25	
gamma-Chlordane	2.42	0.25	0.042	ug/L	2.50	NA	96.8	80-120	6.33	25	
Heptachlor	2.28	0.25	0.018	ug/L	2.50	NA	91.0	60-110	9.37	25	
Heptachlor Epoxide	2.43	0.25	0.038	ug/L	2.50	NA	97.4	80-120	6.36	25	
Methoxychlor	2.55	0.25	0.026	ug/L	2.50	NA	102	80-120	4.62	25	
Surrogate: DBC	*2.25*			ug/L	*2.50*	*NA*	*90.1*	*40-130*			
Surrogate: TCMX	*1.96*			ug/L	*2.50*	*NA*	*78.6*	*40-120*			

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0106 - EPA 3510C

Duplicate (B9I0106-DUP1)

Source: 0904811-01 Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	<0.016	0.25	0.016	ug/L	NA	ND	NA	NA	NA	25	
4,4'-DDE	<0.016	0.25	0.016	ug/L	NA	ND	NA	NA	NA	25	
4,4'-DDT	<0.020	0.25	0.020	ug/L	NA	ND	NA	NA	NA	25	
Aldrin	<0.018	0.25	0.018	ug/L	NA	ND	NA	NA	NA	25	
alpha-BHC	<0.021	0.25	0.021	ug/L	NA	ND	NA	NA	NA	25	
alpha-Chlordane	<0.016	0.25	0.016	ug/L	NA	ND	NA	NA	NA	25	
beta-BHC	<0.016	0.25	0.016	ug/L	NA	ND	NA	NA	NA	25	
delta-BHC	<0.014	0.25	0.014	ug/L	NA	ND	NA	NA	NA	25	
Dieldrin	<0.024	0.25	0.024	ug/L	NA	ND	NA	NA	NA	25	
Endosulfan I	<0.021	0.25	0.021	ug/L	NA	ND	NA	NA	NA	25	
Endosulfan II	<0.019	0.25	0.019	ug/L	NA	ND	NA	NA	NA	25	
Endosulfan Sulfate	<0.019	0.25	0.019	ug/L	NA	ND	NA	NA	NA	25	
Endrin	<0.020	0.25	0.020	ug/L	NA	ND	NA	NA	NA	25	
Endrin Aldehyde	<0.040	0.25	0.040	ug/L	NA	ND	NA	NA	NA	25	
Endrin Ketone	<0.019	0.25	0.019	ug/L	NA	ND	NA	NA	NA	25	
gamma-BHC	<0.020	0.25	0.020	ug/L	NA	ND	NA	NA	NA	25	
gamma-Chlordane	<0.042	0.25	0.042	ug/L	NA	ND	NA	NA	NA	25	
Heptachlor	<0.018	0.25	0.018	ug/L	NA	ND	NA	NA	NA	25	
Heptachlor Epoxide	<0.038	0.25	0.038	ug/L	NA	ND	NA	NA	NA	25	
Methoxychlor	<0.026	0.25	0.026	ug/L	NA	ND	NA	NA	NA	25	
Toxaphene	<1.0	5.0	1.0	ug/L	NA	ND	NA	NA	NA	25	
Surrogate: DBC	*2.28*			ug/L	*2.53*	*NA*	*90.4*	*40-130*			
Surrogate: TCMX	*2.26*			ug/L	*2.53*	*NA*	*89.3*	*40-120*			

Batch B9I0141 - EPA 3545

Method Blank (B9I0141-BLK1)

Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	<0.025	0.025	0.0015	mg/kg	NA	NA	NA	NA	NA	NA	
4,4'-DDE	<0.025	0.025	0.0026	mg/kg	NA	NA	NA	NA	NA	NA	
4,4'-DDT	<0.025	0.025	0.0023	mg/kg	NA	NA	NA	NA	NA	NA	
Aldrin	<0.025	0.025	0.0032	mg/kg	NA	NA	NA	NA	NA	NA	
alpha-BHC	<0.025	0.025	0.0023	mg/kg	NA	NA	NA	NA	NA	NA	
alpha-Chlordane	<0.025	0.025	0.0020	mg/kg	NA	NA	NA	NA	NA	NA	
beta-BHC	<0.025	0.025	0.0023	mg/kg	NA	NA	NA	NA	NA	NA	
delta-BHC	<0.025	0.025	0.0018	mg/kg	NA	NA	NA	NA	NA	NA	
Dieldrin	<0.025	0.025	0.0022	mg/kg	NA	NA	NA	NA	NA	NA	
Endosulfan I	<0.025	0.025	0.0028	mg/kg	NA	NA	NA	NA	NA	NA	
Endosulfan II	<0.025	0.025	0.0021	mg/kg	NA	NA	NA	NA	NA	NA	
Endosulfan Sulfate	<0.025	0.025	0.0023	mg/kg	NA	NA	NA	NA	NA	NA	
Endrin	<0.025	0.025	0.0028	mg/kg	NA	NA	NA	NA	NA	NA	
Endrin Aldehyde	<0.025	0.025	0.0096	mg/kg	NA	NA	NA	NA	NA	NA	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0141 - EPA 3545

Method Blank (B9I0141-BLK1)

Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Endrin Ketone	<0.025	0.025	0.0031	mg/kg	NA	NA	NA	NA	NA	NA	
gamma-BHC	<0.025	0.025	0.0025	mg/kg	NA	NA	NA	NA	NA	NA	
gamma-Chlordane	<0.025	0.025	0.0017	mg/kg	NA	NA	NA	NA	NA	NA	
Heptachlor	<0.025	0.025	0.0054	mg/kg	NA	NA	NA	NA	NA	NA	
Heptachlor Epoxide	<0.025	0.025	0.0043	mg/kg	NA	NA	NA	NA	NA	NA	
Methoxychlor	<0.025	0.025	0.0021	mg/kg	NA	NA	NA	NA	NA	NA	
Toxaphene	<0.50	0.50	0.096	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: DBC	*0.206*			mg/kg	*0.248*	*NA*	*83.3*	*40-160*			
Surrogate: TCMX	*0.200*			mg/kg	*0.248*	*NA*	*80.8*	*60-130*			

Laboratory Control Sample (B9I0141-BS1)

Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.213	0.024	0.0014	mg/kg	0.237	NA	89.8	70-130	NA	NA	
4,4'-DDE	0.221	0.024	0.0025	mg/kg	0.237	NA	93.1	70-130	NA	NA	
4,4'-DDT	0.269	0.024	0.0022	mg/kg	0.237	NA	113	70-130	NA	NA	
Aldrin	0.226	0.024	0.0030	mg/kg	0.237	NA	95.3	70-130	NA	NA	
alpha-BHC	0.231	0.024	0.0022	mg/kg	0.237	NA	97.7	70-130	NA	NA	
alpha-Chlordane	0.225	0.024	0.0019	mg/kg	0.237	NA	94.9	70-130	NA	NA	
beta-BHC	0.234	0.024	0.0022	mg/kg	0.237	NA	98.7	70-130	NA	NA	
delta-BHC	0.229	0.024	0.0017	mg/kg	0.237	NA	96.4	70-130	NA	NA	
Dieldrin	0.220	0.024	0.0021	mg/kg	0.237	NA	92.8	70-130	NA	NA	
Endosulfan I	0.224	0.024	0.0027	mg/kg	0.237	NA	94.7	70-130	NA	NA	
Endosulfan II	0.207	0.024	0.0020	mg/kg	0.237	NA	87.5	70-130	NA	NA	
Endosulfan Sulfate	0.220	0.024	0.0022	mg/kg	0.237	NA	93.0	70-130	NA	NA	
Endrin	0.212	0.024	0.0027	mg/kg	0.237	NA	89.3	70-130	NA	NA	
Endrin Aldehyde	0.232	0.024	0.0091	mg/kg	0.237	NA	97.7	70-130	NA	NA	
Endrin Ketone	0.262	0.024	0.0029	mg/kg	0.237	NA	111	70-130	NA	NA	
gamma-BHC	0.236	0.024	0.0024	mg/kg	0.237	NA	99.6	70-130	NA	NA	
gamma-Chlordane	0.229	0.024	0.0016	mg/kg	0.237	NA	96.5	70-130	NA	NA	
Heptachlor	0.247	0.024	0.0051	mg/kg	0.237	NA	104	70-130	NA	NA	
Heptachlor Epoxide	0.227	0.024	0.0041	mg/kg	0.237	NA	95.9	70-130	NA	NA	
Methoxychlor	0.259	0.024	0.0020	mg/kg	0.237	NA	109	70-130	NA	NA	
Surrogate: DBC	*0.219*			mg/kg	*0.237*	*NA*	*92.5*	*40-160*			
Surrogate: TCMX	*0.213*			mg/kg	*0.237*	*NA*	*90.0*	*60-130*			

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0141 - EPA 3545

Laboratory Control Sample Duplicate (B9I0141-BSD1)

Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.240	0.024	0.0015	mg/kg	0.244	NA	98.6	70-130	12.1	25	
4,4'-DDE	0.245	0.024	0.0025	mg/kg	0.244	NA	100	70-130	10.3	25	
4,4'-DDT	0.276	0.024	0.0022	mg/kg	0.244	NA	113	70-130	2.78	25	
Aldrin	0.251	0.024	0.0031	mg/kg	0.244	NA	103	70-130	10.6	25	
alpha-BHC	0.258	0.024	0.0022	mg/kg	0.244	NA	106	70-130	10.8	25	
alpha-Chlordane	0.248	0.024	0.0019	mg/kg	0.244	NA	102	70-130	9.89	25	
beta-BHC	0.261	0.024	0.0022	mg/kg	0.244	NA	107	70-130	11.2	25	
delta-BHC	0.257	0.024	0.0018	mg/kg	0.244	NA	106	70-130	11.8	25	
Dieldrin	0.248	0.024	0.0021	mg/kg	0.244	NA	102	70-130	11.8	25	
Endosulfan I	0.245	0.024	0.0027	mg/kg	0.244	NA	101	70-130	8.95	25	
Endosulfan II	0.231	0.024	0.0020	mg/kg	0.244	NA	95.0	70-130	11.0	25	
Endosulfan Sulfate	0.236	0.024	0.0022	mg/kg	0.244	NA	96.8	70-130	6.80	25	
Endrin	0.236	0.024	0.0027	mg/kg	0.244	NA	97.0	70-130	11.0	25	
Endrin Aldehyde	0.249	0.024	0.0094	mg/kg	0.244	NA	102	70-130	7.21	25	
Endrin Ketone	0.254	0.024	0.0030	mg/kg	0.244	NA	104	70-130	3.01	25	
gamma-BHC	0.263	0.024	0.0024	mg/kg	0.244	NA	108	70-130	10.8	25	
gamma-Chlordane	0.254	0.024	0.0017	mg/kg	0.244	NA	104	70-130	10.3	25	
Heptachlor	0.272	0.024	0.0053	mg/kg	0.244	NA	112	70-130	9.61	25	
Heptachlor Epoxide	0.253	0.024	0.0042	mg/kg	0.244	NA	104	70-130	10.6	25	
Methoxychlor	0.265	0.024	0.0020	mg/kg	0.244	NA	109	70-130	2.12	25	
Surrogate: DBC	*0.228*			mg/kg	*0.244*	*NA*	*93.4*	*40-160*			
Surrogate: TCMX	*0.233*			mg/kg	*0.244*	*NA*	*95.7*	*60-130*			

Matrix Spike (B9I0141-MS1)

Source: 0904744-01 Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.211	0.030	0.0018	mg/kg dry	0.295	ND	71.3	50-130	NA	NA	
4,4'-DDE	0.215	0.030	0.0031	mg/kg dry	0.295	ND	72.9	50-130	NA	NA	
4,4'-DDT	0.250	0.030	0.0027	mg/kg dry	0.295	ND	84.7	50-130	NA	NA	
Aldrin	0.223	0.030	0.0038	mg/kg dry	0.295	ND	75.5	50-130	NA	NA	
alpha-BHC	0.236	0.030	0.0027	mg/kg dry	0.295	ND	79.9	50-130	NA	NA	
alpha-Chlordane	0.221	0.030	0.0024	mg/kg dry	0.295	ND	75.0	50-130	NA	NA	
beta-BHC	0.238	0.030	0.0027	mg/kg dry	0.295	ND	80.5	50-130	NA	NA	
delta-BHC	0.230	0.030	0.0021	mg/kg dry	0.295	ND	77.7	50-130	NA	NA	
Dieldrin	0.205	0.030	0.0026	mg/kg dry	0.295	ND	69.5	50-130	NA	NA	
Endosulfan I	0.223	0.030	0.0033	mg/kg dry	0.295	ND	75.5	50-130	NA	NA	
Endosulfan II	0.200	0.030	0.0025	mg/kg dry	0.295	ND	67.7	50-130	NA	NA	
Endosulfan Sulfate	0.220	0.030	0.0027	mg/kg dry	0.295	ND	74.7	50-130	NA	NA	
Endrin	0.207	0.030	0.0033	mg/kg dry	0.295	ND	70.1	50-130	NA	NA	
Endrin Aldehyde	0.178	0.030	0.011	mg/kg dry	0.295	ND	60.4	50-130	NA	NA	
Endrin Ketone	0.292	0.030	0.0037	mg/kg dry	0.295	ND	98.9	50-130	NA	NA	
gamma-BHC	0.240	0.030	0.0030	mg/kg dry	0.295	ND	81.2	50-130	NA	NA	
gamma-Chlordane	0.225	0.030	0.0020	mg/kg dry	0.295	ND	76.0	50-130	NA	NA	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904785
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0141 - EPA 3545

Matrix Spike (B9I0141-MS1)

Source: 0904744-01 Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Heptachlor	0.238	0.030	0.0064	mg/kg dry	0.295	ND	80.6	50-130	NA	NA	
Heptachlor Epoxide	0.227	0.030	0.0051	mg/kg dry	0.295	ND	76.8	50-130	NA	NA	
Methoxychlor	0.249	0.030	0.0025	mg/kg dry	0.295	ND	84.2	50-130	NA	NA	
Surrogate: DBC	*0.226*			mg/kg dry	*0.295*	*NA*	*76.6*	*40-160*			
Surrogate: TCMX	*0.214*			mg/kg dry	*0.295*	*NA*	*72.5*	*60-130*			

Matrix Spike Duplicate (B9I0141-MSD1)

Source: 0904744-01 Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.216	0.028	0.0017	mg/kg dry	0.278	ND	77.8	50-130	2.64	25	
4,4'-DDE	0.216	0.028	0.0029	mg/kg dry	0.278	ND	77.9	50-130	0.544	25	
4,4'-DDT	0.261	0.028	0.0026	mg/kg dry	0.278	ND	93.9	50-130	4.28	25	
Aldrin	0.232	0.028	0.0036	mg/kg dry	0.278	ND	83.5	50-130	4.03	25	
alpha-BHC	0.243	0.028	0.0026	mg/kg dry	0.278	ND	87.3	50-130	2.82	25	
alpha-Chlordane	0.221	0.028	0.0022	mg/kg dry	0.278	ND	79.6	50-130	0.114	25	
beta-BHC	0.244	0.028	0.0026	mg/kg dry	0.278	ND	87.9	50-130	2.74	25	
delta-BHC	0.232	0.028	0.0020	mg/kg dry	0.278	ND	83.6	50-130	1.23	25	
Dieldrin	0.217	0.028	0.0024	mg/kg dry	0.278	ND	78.0	50-130	5.51	25	
Endosulfan I	0.226	0.028	0.0031	mg/kg dry	0.278	ND	81.5	50-130	1.52	25	
Endosulfan II	0.202	0.028	0.0023	mg/kg dry	0.278	ND	72.8	50-130	1.24	25	
Endosulfan Sulfate	0.222	0.028	0.0026	mg/kg dry	0.278	ND	80.0	50-130	0.804	25	
Endrin	0.211	0.028	0.0031	mg/kg dry	0.278	ND	75.9	50-130	1.80	25	
Endrin Aldehyde	0.158	0.028	0.011	mg/kg dry	0.278	ND	56.9	50-130	12.0	25	
Endrin Ketone	0.279	0.028	0.0034	mg/kg dry	0.278	ND	100	50-130	4.75	25	
gamma-BHC	0.248	0.028	0.0028	mg/kg dry	0.278	ND	89.1	50-130	3.21	25	
gamma-Chlordane	0.230	0.028	0.0019	mg/kg dry	0.278	ND	82.7	50-130	2.27	25	
Heptachlor	0.249	0.028	0.0060	mg/kg dry	0.278	ND	89.8	50-130	4.68	25	
Heptachlor Epoxide	0.232	0.028	0.0048	mg/kg dry	0.278	ND	83.4	50-130	2.15	25	
Methoxychlor	0.259	0.028	0.0023	mg/kg dry	0.278	ND	93.1	50-130	3.96	25	
Surrogate: DBC	*0.224*			mg/kg dry	*0.278*	*NA*	*80.5*	*40-160*			
Surrogate: TCMX	*0.217*			mg/kg dry	*0.278*	*NA*	*78.0*	*60-130*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904785
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0097 - EPA 3510C

Method Blank (B9I0097-BLK1)

Prepared: 09/05/09 Analyzed: 09/08/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	<0.25	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Alachlor	<0.19	0.50	0.19	ug/L	NA	NA	NA	NA	NA	NA	
Atrazine	<0.24	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	<0.34	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Cyanazine	<0.48	0.50	0.48	ug/L	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	<0.26	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
Desethylatrazine	<0.29	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Dimethenamid	<0.24	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
EPTC	<0.22	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Ethalfluralin	<0.47	0.50	0.47	ug/L	NA	NA	NA	NA	NA	NA	
Fonofos	<0.30	0.50	0.30	ug/L	NA	NA	NA	NA	NA	NA	
Metolachlor	<0.28	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
Metribuzin	<0.35	0.50	0.35	ug/L	NA	NA	NA	NA	NA	NA	
Pendimethalin	<0.25	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Phorate	<0.58	1.0	0.58	ug/L	NA	NA	NA	NA	NA	NA	
Prometon	<0.29	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Propachlor	<0.14	0.50	0.14	ug/L	NA	NA	NA	NA	NA	NA	
Propazine	<0.21	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Simazine	<0.32	0.50	0.32	ug/L	NA	NA	NA	NA	NA	NA	
Terbufos	<0.54	1.0	0.54	ug/L	NA	NA	NA	NA	NA	NA	
Triallate	<0.34	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Trifluralin	<0.21	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: Atrazine-d5	*9.31*			ug/L	*10.0*	*NA*	*93.1*	*50-120*			
Surrogate: Diazinon-d10	*9.19*			ug/L	*10.0*	*NA*	*91.9*	*50-120*			

Laboratory Control Sample (B9I0097-BS1)

Prepared: 09/05/09 Analyzed: 09/08/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	9.45	0.50	0.25	ug/L	10.0	NA	94.5	65-115	NA	NA	
Alachlor	9.37	0.50	0.19	ug/L	10.0	NA	93.7	65-115	NA	NA	
Atrazine	9.34	0.50	0.24	ug/L	10.0	NA	93.4	65-115	NA	NA	
Chlorpyrifos	9.19	0.50	0.34	ug/L	10.0	NA	91.9	65-115	NA	NA	
Cyanazine	10.6	0.50	0.48	ug/L	10.0	NA	106	65-115	NA	NA	
Deisopropylatrazine	8.39	0.50	0.26	ug/L	10.0	NA	83.9	65-115	NA	NA	
Desethylatrazine	9.44	0.50	0.29	ug/L	10.0	NA	94.4	65-115	NA	NA	
Dimethenamid	9.41	0.50	0.24	ug/L	10.0	NA	94.1	65-115	NA	NA	
EPTC	8.95	0.50	0.22	ug/L	10.0	NA	89.5	50-110	NA	NA	
Ethalfluralin	9.71	0.50	0.47	ug/L	10.0	NA	97.1	65-115	NA	NA	
Fonofos	9.14	0.50	0.30	ug/L	10.0	NA	91.4	55-115	NA	NA	
Metolachlor	9.69	0.50	0.28	ug/L	10.0	NA	96.9	70-120	NA	NA	
Metribuzin	9.80	0.50	0.35	ug/L	10.0	NA	98.0	70-120	NA	NA	
Pendimethalin	9.26	0.50	0.25	ug/L	10.0	NA	92.6	65-115	NA	NA	
Phorate	8.76	1.0	0.58	ug/L	10.0	NA	87.6	30-100	NA	NA	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904785
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0097 - EPA 3510C

Laboratory Control Sample (B9I0097-BS1)

Prepared: 09/05/09 Analyzed: 09/08/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	9.80	0.50	0.29	ug/L	10.0	NA	98.0	70-120	NA	NA	
Propachlor	9.35	0.50	0.14	ug/L	10.0	NA	93.5	65-115	NA	NA	
Propazine	9.40	0.50	0.21	ug/L	10.0	NA	94.0	65-115	NA	NA	
Simazine	11.1	0.50	0.32	ug/L	10.0	NA	111	65-115	NA	NA	
Terbufos	9.28	1.0	0.54	ug/L	10.0	NA	92.8	30-100	NA	NA	
Triallate	9.10	0.50	0.34	ug/L	10.0	NA	91.0	65-115	NA	NA	
Trifluralin	9.44	0.50	0.21	ug/L	10.0	NA	94.4	65-115	NA	NA	
Surrogate: Atrazine-d5	*9.00*			ug/L	*10.0*	*NA*	*90.0*	*50-120*			
Surrogate: Diazinon-d10	*9.01*			ug/L	*10.0*	*NA*	*90.1*	*50-120*			

Laboratory Control Sample Duplicate (B9I0097-BSD1)

Prepared: 09/05/09 Analyzed: 09/08/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	8.97	0.50	0.25	ug/L	10.0	NA	89.7	65-115	5.21	25	
Alachlor	9.23	0.50	0.19	ug/L	10.0	NA	92.3	65-115	1.51	25	
Atrazine	9.31	0.50	0.24	ug/L	10.0	NA	93.1	65-115	0.322	25	
Chlorpyrifos	8.72	0.50	0.34	ug/L	10.0	NA	87.2	65-115	5.25	25	
Cyanazine	9.07	0.50	0.48	ug/L	10.0	NA	90.7	65-115	15.3	25	
Deisopropylatrazine	8.60	0.50	0.26	ug/L	10.0	NA	86.0	65-115	2.47	25	
Desethylatrazine	9.10	0.50	0.29	ug/L	10.0	NA	91.0	65-115	3.67	25	
Dimethenamid	8.95	0.50	0.24	ug/L	10.0	NA	89.5	65-115	5.01	25	
EPTC	8.25	0.50	0.22	ug/L	10.0	NA	82.5	50-110	8.14	30	
Ethalfluralin	9.50	0.50	0.47	ug/L	10.0	NA	95.0	65-115	2.19	30	
Fonofos	8.97	0.50	0.30	ug/L	10.0	NA	89.7	55-115	1.88	30	
Metolachlor	9.32	0.50	0.28	ug/L	10.0	NA	93.2	70-120	3.89	25	
Metribuzin	9.58	0.50	0.35	ug/L	10.0	NA	95.8	70-120	2.27	25	
Pendimethalin	9.02	0.50	0.25	ug/L	10.0	NA	90.2	65-115	2.63	25	
Phorate	8.46	1.0	0.58	ug/L	10.0	NA	84.6	30-100	3.48	30	
Prometon	9.39	0.50	0.29	ug/L	10.0	NA	93.9	70-120	4.27	30	
Propachlor	9.02	0.50	0.14	ug/L	10.0	NA	90.2	65-115	3.59	30	
Propazine	9.05	0.50	0.21	ug/L	10.0	NA	90.5	65-115	3.79	25	
Simazine	10.6	0.50	0.32	ug/L	10.0	NA	106	65-115	3.87	25	
Terbufos	8.62	1.0	0.54	ug/L	10.0	NA	86.2	30-100	7.37	30	
Triallate	8.93	0.50	0.34	ug/L	10.0	NA	89.3	65-115	1.89	25	
Trifluralin	8.86	0.50	0.21	ug/L	10.0	NA	88.6	65-115	6.34	25	
Surrogate: Atrazine-d5	*8.69*			ug/L	*10.0*	*NA*	*86.9*	*50-120*			
Surrogate: Diazinon-d10	*8.88*			ug/L	*10.0*	*NA*	*88.8*	*50-120*			

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UMP018592

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0097 - EPA 3510C

Duplicate (B9I0097-DUP1)

Source: 0904785-01 Prepared: 09/05/09 Analyzed: 09/08/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	<0.28	0.56	0.28	ug/L	NA	ND	NA	NA	NA	30	
Alachlor	<0.21	0.56	0.21	ug/L	NA	ND	NA	NA	NA	30	
Atrazine	1.16	0.56	0.26	ug/L	NA	1.00	NA	NA	14.4	30	
Chlorpyrifos	<0.37	0.56	0.37	ug/L	NA	ND	NA	NA	NA	30	
Cyanazine	<0.54	0.56	0.54	ug/L	NA	ND	NA	NA	NA	30	
Deisopropylatrazine	<0.29	0.56	0.29	ug/L	NA	ND	NA	NA	NA	30	
Desethylatrazine	0.711	0.56	0.32	ug/L	NA	0.705	NA	NA	0.928	30	
Dimethenamid	<0.26	0.56	0.26	ug/L	NA	ND	NA	NA	NA	30	
EPTC	<0.24	0.56	0.24	ug/L	NA	ND	NA	NA	NA	30	
Ethalfluralin	<0.52	0.56	0.52	ug/L	NA	ND	NA	NA	NA	30	
Fonofos	<0.33	0.56	0.33	ug/L	NA	ND	NA	NA	NA	30	
Metolachlor	<0.31	0.56	0.31	ug/L	NA	ND	NA	NA	NA	30	
Metribuzin	<0.39	0.56	0.39	ug/L	NA	ND	NA	NA	NA	30	
Pendimethalin	<0.28	0.56	0.28	ug/L	NA	ND	NA	NA	NA	30	
Phorate	<0.65	1.1	0.65	ug/L	NA	ND	NA	NA	NA	30	
Prometon	<0.33	0.56	0.33	ug/L	NA	ND	NA	NA	NA	30	
Propachlor	<0.16	0.56	0.16	ug/L	NA	ND	NA	NA	NA	30	
Propazine	<0.23	0.56	0.23	ug/L	NA	ND	NA	NA	NA	30	
Simazine	<0.35	0.56	0.35	ug/L	NA	ND	NA	NA	NA	30	
Terbufos	<0.60	1.1	0.60	ug/L	NA	ND	NA	NA	NA	30	
Triallate	<0.37	0.56	0.37	ug/L	NA	ND	NA	NA	NA	30	
Trifluralin	<0.24	0.56	0.24	ug/L	NA	ND	NA	NA	NA	30	
Surrogate: Atrazine-d5	*10.0*			ug/L	*11.1*	*NA*	*90.0*	*50-120*			
Surrogate: Diazinon-d10	*10.1*			ug/L	*11.1*	*NA*	*91.3*	*50-120*			

Batch B9I0227 - EPA 3545

Method Blank (B9I0227-BLK1)

Prepared: 09/13/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	<0.040	0.040	0.010	mg/kg	NA	NA	NA	NA	NA	NA	
Alachlor	<0.040	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Atrazine	<0.040	0.040	0.010	mg/kg	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	<0.040	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Cyanazine	<0.040	0.040	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	<0.040	0.040	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Desethylatrazine	<0.040	0.040	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Dimethenamid	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
EPTC	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Ethalfluralin	<0.040	0.040	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Fonofos	<0.040	0.040	0.0040	mg/kg	NA	NA	NA	NA	NA	NA	
Metolachlor	<0.040	0.040	0.0030	mg/kg	NA	NA	NA	NA	NA	NA	
Metribuzin	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904785
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0227 - EPA 3545

Method Blank (B9I0227-BLK1)

Prepared: 09/13/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Pendimethalin	<0.040	0.040	0.016	mg/kg	NA	NA	NA	NA	NA	NA	
Phorate	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Prometon	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Propachlor	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Propazine	<0.040	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Simazine	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Terbufos	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Triallate	<0.040	0.040	0.0050	mg/kg	NA	NA	NA	NA	NA	NA	
Trifluralin	<0.040	0.040	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: Atrazine-d5	*0.232*			mg/kg	*0.329*	*NA*	*70.6*	*50-125*			
Surrogate: Diazinon-d10	*0.246*			mg/kg	*0.329*	*NA*	*74.6*	*35-120*			

Laboratory Control Sample (B9I0227-BS1)

Prepared: 09/13/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.302	0.040	0.010	mg/kg	0.332	NA	91.1	70-120	NA	NA	
Alachlor	0.299	0.040	0.0070	mg/kg	0.332	NA	90.2	70-120	NA	NA	
Atrazine	0.294	0.040	0.010	mg/kg	0.332	NA	88.7	70-120	NA	NA	
Chlorpyrifos	0.293	0.040	0.0070	mg/kg	0.332	NA	88.4	70-120	NA	NA	
Cyanazine	0.306	0.040	0.0080	mg/kg	0.332	NA	92.3	70-120	NA	NA	
Deisopropylatrazine	0.274	0.040	0.0080	mg/kg	0.332	NA	82.6	65-115	NA	NA	
Desethylatrazine	0.301	0.040	0.011	mg/kg	0.332	NA	90.7	70-120	NA	NA	
Dimethenamid	0.296	0.040	0.0060	mg/kg	0.332	NA	89.3	70-120	NA	NA	
EPTC	0.284	0.040	0.0060	mg/kg	0.332	NA	85.7	60-105	NA	NA	
Ethalfluralin	0.276	0.040	0.014	mg/kg	0.332	NA	83.2	70-120	NA	NA	
Fonofos	0.298	0.040	0.0040	mg/kg	0.332	NA	89.8	70-115	NA	NA	
Metolachlor	0.300	0.040	0.0030	mg/kg	0.332	NA	90.6	70-120	NA	NA	
Metribuzin	0.297	0.040	0.0090	mg/kg	0.332	NA	89.7	70-120	NA	NA	
Pendimethalin	0.307	0.040	0.016	mg/kg	0.332	NA	92.7	70-120	NA	NA	
Phorate	0.305	0.040	0.0060	mg/kg	0.332	NA	91.9	70-115	NA	NA	
Prometon	0.299	0.040	0.0060	mg/kg	0.332	NA	90.2	70-120	NA	NA	
Propachlor	0.284	0.040	0.0090	mg/kg	0.332	NA	85.8	70-115	NA	NA	
Propazine	0.297	0.040	0.0070	mg/kg	0.332	NA	89.7	70-120	NA	NA	
Simazine	0.262	0.040	0.0090	mg/kg	0.332	NA	78.9	60-115	NA	NA	
Terbufos	0.293	0.040	0.0090	mg/kg	0.332	NA	88.5	70-115	NA	NA	
Triallate	0.285	0.040	0.0050	mg/kg	0.332	NA	86.0	70-115	NA	NA	
Trifluralin	0.284	0.040	0.014	mg/kg	0.332	NA	85.8	70-115	NA	NA	
Surrogate: Atrazine-d5	*0.259*			mg/kg	*0.332*	*NA*	*78.2*	*50-125*			
Surrogate: Diazinon-d10	*0.264*			mg/kg	*0.332*	*NA*	*79.7*	*35-120*			

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UMP018594

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904785
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0227 - EPA 3545

Laboratory Control Sample Duplicate (B9I0227-BSD1)

Prepared: 09/13/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.298	0.040	0.010	mg/kg	0.329	NA	90.4	70-120	1.47	20	
Alachlor	0.304	0.040	0.0070	mg/kg	0.329	NA	92.2	70-120	1.50	20	
Atrazine	0.298	0.040	0.010	mg/kg	0.329	NA	90.4	70-120	1.20	20	
Chlorpyrifos	0.294	0.040	0.0070	mg/kg	0.329	NA	89.2	70-120	0.207	20	
Cyanazine	0.308	0.040	0.0080	mg/kg	0.329	NA	93.5	70-120	0.598	20	
Deisopropylatrazine	0.279	0.040	0.0080	mg/kg	0.329	NA	84.7	65-115	1.82	20	
Desethylatrazine	0.298	0.040	0.011	mg/kg	0.329	NA	90.6	70-120	0.804	20	
Dimethenamid	0.308	0.040	0.0060	mg/kg	0.329	NA	93.6	70-120	4.01	20	
EPTC	0.269	0.040	0.0060	mg/kg	0.329	NA	81.7	60-105	5.47	20	
Ethalfluralin	0.302	0.040	0.014	mg/kg	0.329	NA	91.7	70-120	9.03	20	
Fonofos	0.300	0.040	0.0040	mg/kg	0.329	NA	91.1	70-115	0.743	20	
Metolachlor	0.307	0.040	0.0030	mg/kg	0.329	NA	93.3	70-120	2.24	20	
Metribuzin	0.299	0.040	0.0090	mg/kg	0.329	NA	90.7	70-120	0.415	20	
Pendimethalin	0.310	0.040	0.016	mg/kg	0.329	NA	94.1	70-120	0.805	20	
Phorate	0.304	0.040	0.0060	mg/kg	0.329	NA	92.4	70-115	0.151	20	
Prometon	0.311	0.040	0.0060	mg/kg	0.329	NA	94.5	70-120	3.96	20	
Propachlor	0.288	0.040	0.0090	mg/kg	0.329	NA	87.5	70-115	1.27	20	
Propazine	0.309	0.040	0.0070	mg/kg	0.329	NA	93.9	70-120	3.88	20	
Simazine	0.273	0.040	0.0090	mg/kg	0.329	NA	82.9	60-115	4.25	20	
Terbufos	0.296	0.040	0.0090	mg/kg	0.329	NA	90.0	70-115	0.987	20	
Triallate	0.290	0.040	0.0050	mg/kg	0.329	NA	88.1	70-115	1.72	20	
Trifluralin	0.278	0.040	0.014	mg/kg	0.329	NA	84.5	70-115	2.22	20	
Surrogate: Atrazine-d5	*0.261*			mg/kg	*0.329*	*NA*	*79.4*	*50-125*			
Surrogate: Diazinon-d10	*0.268*			mg/kg	*0.329*	*NA*	*81.3*	*35-120*			

Matrix Spike (B9I0227-MS1)

Source: 0904744-01 Prepared: 09/13/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.356	0.048	0.012	mg/kg dry	0.396	ND	89.8	50-120	NA	NA	
Alachlor	0.366	0.048	0.0083	mg/kg dry	0.396	ND	92.3	55-120	NA	NA	
Atrazine	0.375	0.048	0.012	mg/kg dry	0.396	ND	94.7	60-120	NA	NA	
Chlorpyrifos	0.313	0.048	0.0083	mg/kg dry	0.396	ND	79.0	40-125	NA	NA	
Cyanazine	0.390	0.048	0.0095	mg/kg dry	0.396	ND	98.3	55-125	NA	NA	
Deisopropylatrazine	0.334	0.048	0.0095	mg/kg dry	0.396	ND	84.4	55-120	NA	NA	
Desethylatrazine	0.379	0.048	0.013	mg/kg dry	0.396	ND	95.6	60-125	NA	NA	
Dimethenamid	0.384	0.048	0.0071	mg/kg dry	0.396	ND	96.9	55-120	NA	NA	
EPTC	0.363	0.048	0.0071	mg/kg dry	0.396	ND	91.6	40-105	NA	NA	
Ethalfluralin	0.327	0.048	0.017	mg/kg dry	0.396	ND	82.6	40-120	NA	NA	
Fonofos	0.356	0.048	0.0048	mg/kg dry	0.396	ND	89.9	45-115	NA	NA	
Metolachlor	0.401	0.048	0.0036	mg/kg dry	0.396	0.0233	95.2	50-125	NA	NA	
Metribuzin	0.356	0.048	0.011	mg/kg dry	0.396	ND	89.9	55-125	NA	NA	
Pendimethalin	0.349	0.048	0.019	mg/kg dry	0.396	ND	88.0	40-120	NA	NA	
Phorate	0.357	0.048	0.0071	mg/kg dry	0.396	ND	90.2	40-115	NA	NA	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904785
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0227 - EPA 3545

Matrix Spike (B9I0227-MS1)

Source: 0904744-01 Prepared: 09/13/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	0.345	0.048	0.0071	mg/kg dry	0.396	ND	87.0	60-125	NA	NA	
Propachlor	0.379	0.048	0.011	mg/kg dry	0.396	ND	95.7	60-115	NA	NA	
Propazine	0.386	0.048	0.0083	mg/kg dry	0.396	ND	97.5	55-120	NA	NA	
Simazine	0.336	0.048	0.011	mg/kg dry	0.396	ND	84.8	50-120	NA	NA	
Terbufos	0.344	0.048	0.011	mg/kg dry	0.396	ND	86.8	40-120	NA	NA	
Triallate	0.327	0.048	0.0059	mg/kg dry	0.396	ND	82.6	40-115	NA	NA	
Trifluralin	0.319	0.048	0.017	mg/kg dry	0.396	ND	80.6	40-115	NA	NA	
Surrogate: Atrazine-d5	*0.350*			mg/kg dry	*0.396*	*NA*	*88.3*	*50-125*			
Surrogate: Diazinon-d10	*0.321*			mg/kg dry	*0.396*	*NA*	*80.9*	*35-120*			

Matrix Spike Duplicate (B9I0227-MSD1)

Source: 0904744-01 Prepared: 09/13/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.330	0.048	0.012	mg/kg dry	0.395	ND	83.6	50-120	7.48	25	
Alachlor	0.336	0.048	0.0083	mg/kg dry	0.395	ND	85.0	55-120	8.57	25	
Atrazine	0.350	0.048	0.012	mg/kg dry	0.395	ND	88.5	60-120	7.10	25	
Chlorpyrifos	0.294	0.048	0.0083	mg/kg dry	0.395	ND	74.4	40-125	6.33	25	
Cyanazine	0.354	0.048	0.0095	mg/kg dry	0.395	ND	89.7	55-125	9.48	25	
Deisopropylatrazine	0.329	0.048	0.0095	mg/kg dry	0.395	ND	83.2	55-120	1.76	25	
Desethylatrazine	0.353	0.048	0.013	mg/kg dry	0.395	ND	89.3	60-125	7.15	25	
Dimethenamid	0.357	0.048	0.0071	mg/kg dry	0.395	ND	90.5	55-120	7.16	25	
EPTC	0.331	0.048	0.0071	mg/kg dry	0.395	ND	83.7	40-105	9.34	25	
Ethalfluralin	0.308	0.048	0.017	mg/kg dry	0.395	ND	77.9	40-120	6.19	25	
Fonofos	0.326	0.048	0.0048	mg/kg dry	0.395	ND	82.5	45-115	8.92	25	
Metolachlor	0.362	0.048	0.0036	mg/kg dry	0.395	0.0233	85.8	50-125	10.1	25	
Metribuzin	0.336	0.048	0.011	mg/kg dry	0.395	ND	85.0	55-125	5.94	25	
Pendimethalin	0.308	0.048	0.019	mg/kg dry	0.395	ND	77.9	40-120	12.5	25	
Phorate	0.323	0.048	0.0071	mg/kg dry	0.395	ND	81.7	40-115	10.2	25	
Prometon	0.333	0.048	0.0071	mg/kg dry	0.395	ND	84.3	60-125	3.48	25	
Propachlor	0.350	0.048	0.011	mg/kg dry	0.395	ND	88.5	60-115	8.15	25	
Propazine	0.357	0.048	0.0083	mg/kg dry	0.395	ND	90.4	55-120	7.89	25	
Simazine	0.323	0.048	0.011	mg/kg dry	0.395	ND	81.8	50-120	3.93	25	
Terbufos	0.309	0.048	0.011	mg/kg dry	0.395	ND	78.3	40-120	10.6	25	
Triallate	0.298	0.048	0.0059	mg/kg dry	0.395	ND	75.4	40-115	9.45	25	
Trifluralin	0.299	0.048	0.017	mg/kg dry	0.395	ND	75.6	40-115	6.73	25	
Surrogate: Atrazine-d5	*0.312*			mg/kg dry	*0.395*	*NA*	*79.0*	*50-125*			
Surrogate: Diazinon-d10	*0.307*			mg/kg dry	*0.395*	*NA*	*77.7*	*35-120*			

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UMP018596

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904785
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0107 - EPA 3510C

Method Blank (B9I0107-BLK1)

Prepared: 09/08/09 Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	<0.50	0.50	0.31	ug/L	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	<0.50	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D	<0.50	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D.B.	<0.50	0.50	0.15	ug/L	NA	NA	NA	NA	NA	NA	
Bentazon	<0.50	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Dicamba	<0.50	0.50	0.38	ug/L	NA	NA	NA	NA	NA	NA	
Dinoseb	<1.0	1.0	0.34	ug/L	NA	NA	NA	NA	NA	NA	
M.C.P.A.	<0.30	0.30	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	<0.50	0.50	0.39	ug/L	NA	NA	NA	NA	NA	NA	
Picloram	<0.50	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Triclopyr	<0.50	0.50	0.41	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	*3.95*			ug/L	*5.00*	*NA*	*79.0*	*65-130*			

Laboratory Control Sample (B9I0107-BS1)

Prepared: 09/08/09 Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.62	0.50	0.31	ug/L	5.00	NA	92.4	70-130	NA	NA	
2,4,5-T.P.	4.57	0.50	0.28	ug/L	5.00	NA	91.4	70-130	NA	NA	
2,4-D	4.23	0.50	0.26	ug/L	5.00	NA	84.6	70-130	NA	NA	
2,4-D.B.	5.67	0.50	0.15	ug/L	5.00	NA	113	75-140	NA	NA	
Bentazon	5.14	0.50	0.22	ug/L	5.00	NA	103	75-135	NA	NA	
Dicamba	3.82	0.50	0.38	ug/L	5.00	NA	76.4	65-130	NA	NA	
Dinoseb	3.57	1.0	0.34	ug/L	5.00	NA	71.4	40-125	NA	NA	
M.C.P.A.	3.67	0.30	0.29	ug/L	5.00	NA	73.4	70-130	NA	NA	
Pentachlorophenol	4.25	0.50	0.39	ug/L	5.00	NA	85.0	70-120	NA	NA	
Picloram	3.81	0.50	0.25	ug/L	5.00	NA	76.2	60-125	NA	NA	
Triclopyr	4.32	0.50	0.41	ug/L	5.00	NA	86.4	75-125	NA	NA	
Surrogate: D.C.A.A.	*3.80*			ug/L	*5.00*	*NA*	*76.0*	*65-130*			

Laboratory Control Sample Duplicate (B9I0107-BSD1)

Prepared: 09/08/09 Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.33	0.50	0.31	ug/L	5.00	NA	86.6	70-130	6.48	20	
2,4,5-T.P.	4.65	0.50	0.28	ug/L	5.00	NA	93.0	70-130	1.74	20	
2,4-D	4.25	0.50	0.26	ug/L	5.00	NA	85.0	70-130	0.472	20	
2,4-D.B.	5.52	0.50	0.15	ug/L	5.00	NA	110	75-140	2.68	20	
Bentazon	4.99	0.50	0.22	ug/L	5.00	NA	99.8	75-135	2.96	20	
Dicamba	3.80	0.50	0.38	ug/L	5.00	NA	76.0	65-130	0.525	20	
Dinoseb	3.45	1.0	0.34	ug/L	5.00	NA	69.0	40-125	3.42	20	
M.C.P.A.	3.75	0.30	0.29	ug/L	5.00	NA	75.0	70-130	2.16	20	
Pentachlorophenol	3.96	0.50	0.39	ug/L	5.00	NA	79.2	70-120	7.06	20	
Picloram	3.74	0.50	0.25	ug/L	5.00	NA	74.8	60-125	1.85	20	
Triclopyr	4.47	0.50	0.41	ug/L	5.00	NA	89.4	75-125	3.41	20	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904785
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0107 - EPA 3510C

Laboratory Control Sample Duplicate (B9I0107-BSD1)

Prepared: 09/08/09 Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: D.C.A.A.	*3.67*			ug/L	*5.00*	*NA*	*73.4*	*65-130*			

Matrix Spike (B9I0107-MS1)

Source: 0904847-02 Prepared: 09/08/09 Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.66	0.56	0.35	ug/L	5.62	ND	83.0	70-140	NA	NA	
2,4,5-T.P.	5.08	0.56	0.32	ug/L	5.62	ND	90.4	70-135	NA	NA	
2,4-D	4.49	0.56	0.30	ug/L	5.62	ND	80.0	70-140	NA	NA	
2,4-D.B.	5.90	0.56	0.17	ug/L	5.62	ND	105	75-140	NA	NA	
Bentazon	4.87	0.56	0.25	ug/L	5.62	ND	86.6	70-140	NA	NA	
Dicamba	4.35	0.56	0.43	ug/L	5.62	ND	77.4	65-140	NA	NA	
Dinoseb	4.37	1.1	0.39	ug/L	5.62	ND	77.8	40-130	NA	NA	
M.C.P.A.	3.34	0.34	0.33	ug/L	5.62	ND	59.4	60-140	NA	NA	
Pentachlorophenol	2.87	0.56	0.44	ug/L	5.62	ND	51.0	70-125	NA	NA	
Picloram	4.17	0.56	0.28	ug/L	5.62	ND	74.2	45-140	NA	NA	
Triclopyr	4.69	0.56	0.46	ug/L	5.62	ND	83.4	75-125	NA	NA	
Surrogate: D.C.A.A.	*4.45*			ug/L	*5.62*	*NA*	*79.2*	*65-130*			

Matrix Spike Duplicate (B9I0107-MSD1)

Source: 0904847-02 Prepared: 09/08/09 Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	5.00	0.57	0.36	ug/L	5.68	ND	88.0	70-140	6.98	25	
2,4,5-T.P.	5.19	0.57	0.32	ug/L	5.68	ND	91.4	70-135	2.23	25	
2,4-D	4.61	0.57	0.30	ug/L	5.68	ND	81.2	70-140	2.62	25	
2,4-D.B.	6.08	0.57	0.17	ug/L	5.68	ND	107	75-140	3.02	25	
Bentazon	4.47	0.57	0.26	ug/L	5.68	ND	78.6	70-140	8.56	25	
Dicamba	4.42	0.57	0.43	ug/L	5.68	ND	77.8	65-140	1.65	25	
Dinoseb	4.28	1.1	0.39	ug/L	5.68	ND	75.4	40-130	2.00	25	
M.C.P.A.	3.28	0.34	0.33	ug/L	5.68	ND	57.8	60-140	1.60	25	
Pentachlorophenol	2.28	0.57	0.45	ug/L	5.68	ND	40.2	70-125	22.6	25	
Picloram	4.43	0.57	0.29	ug/L	5.68	ND	78.0	45-140	6.12	25	
Triclopyr	4.94	0.57	0.46	ug/L	5.68	ND	87.0	75-125	5.35	25	
Surrogate: D.C.A.A.	*4.39*			ug/L	*5.68*	*NA*	*77.2*	*65-130*			

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UMP018598

BRAUN INTERTEC

11001 Hampshire Ave. S.
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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904785
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0256 - EPA 3545

Method Blank (B9I0256-BLK1)

Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	<0.050	0.050	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	<0.050	0.050	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D	<0.050	0.050	0.012	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D.B.	<0.050	0.050	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Bentazon	<0.050	0.050	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Dicamba	<0.050	0.050	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Dinoseb	<0.050	0.050	0.0050	mg/kg	NA	NA	NA	NA	NA	NA	
M.C.P.A.	<0.050	0.050	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	<0.050	0.050	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Picloram	<0.050	0.050	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Triclopyr	<0.050	0.050	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	*0.112*			mg/kg	*0.166*	*NA*	*67.2*	*50-125*			

Laboratory Control Sample (B9I0256-BS1)

Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.128	0.050	0.0090	mg/kg	0.164	NA	77.8	60-125	NA	NA	
2,4,5-T.P.	0.127	0.050	0.0070	mg/kg	0.164	NA	77.4	65-125	NA	NA	
2,4-D	0.126	0.050	0.012	mg/kg	0.164	NA	76.6	60-125	NA	NA	
2,4-D.B.	0.131	0.050	0.011	mg/kg	0.164	NA	79.6	70-130	NA	NA	
Bentazon	0.127	0.050	0.0090	mg/kg	0.164	NA	77.2	65-125	NA	NA	
Dicamba	0.123	0.050	0.0080	mg/kg	0.164	NA	75.2	60-120	NA	NA	
Dinoseb	0.0926	0.050	0.0050	mg/kg	0.164	NA	56.4	30-120	NA	NA	
M.C.P.A.	0.127	0.050	0.014	mg/kg	0.164	NA	77.2	60-115	NA	NA	
Pentachlorophenol	0.111	0.050	0.0070	mg/kg	0.164	NA	67.6	50-120	NA	NA	
Picloram	0.0725	0.050	0.011	mg/kg	0.164	NA	44.2	30-100	NA	NA	
Triclopyr	0.126	0.050	0.0060	mg/kg	0.164	NA	77.0	65-120	NA	NA	
Surrogate: D.C.A.A.	*0.130*			mg/kg	*0.164*	*NA*	*79.0*	*50-125*			

Laboratory Control Sample Duplicate (B9I0256-BSD1)

Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.133	0.050	0.0090	mg/kg	0.165	NA	80.6	60-125	4.13	25	
2,4,5-T.P.	0.134	0.050	0.0070	mg/kg	0.165	NA	81.4	65-125	5.63	25	
2,4-D	0.141	0.050	0.012	mg/kg	0.165	NA	85.6	60-125	11.7	25	
2,4-D.B.	0.136	0.050	0.011	mg/kg	0.165	NA	82.4	70-130	4.05	25	
Bentazon	0.126	0.050	0.0090	mg/kg	0.165	NA	76.6	65-125	0.188	25	
Dicamba	0.131	0.050	0.0080	mg/kg	0.165	NA	79.4	60-120	6.03	25	
Dinoseb	0.102	0.050	0.0050	mg/kg	0.165	NA	61.8	30-120	9.73	25	
M.C.P.A.	0.133	0.050	0.014	mg/kg	0.165	NA	80.6	60-115	4.90	25	
Pentachlorophenol	0.124	0.050	0.0070	mg/kg	0.165	NA	75.2	50-120	11.2	25	
Picloram	0.0918	0.050	0.011	mg/kg	0.165	NA	55.6	30-100	23.4	25	
Triclopyr	0.131	0.050	0.0060	mg/kg	0.165	NA	79.4	65-120	3.66	25	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904785
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0256 - EPA 3545

Laboratory Control Sample Duplicate (B9I0256-BSD1)

Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: D.C.A.A.	*0.126*			mg/kg	*0.165*	*NA*	*76.2*	*50-125*			

Matrix Spike (B9I0256-MS1)

Source: 0904744-01RE1 Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.164	0.059	0.011	mg/kg dry	0.196	ND	83.6	30-130	NA	NA	
2,4,5-T.P.	0.162	0.059	0.0083	mg/kg dry	0.196	ND	82.6	40-130	NA	NA	
2,4-D	0.163	0.059	0.014	mg/kg dry	0.196	ND	83.0	30-125	NA	NA	
2,4-D.B.	0.157	0.059	0.013	mg/kg dry	0.196	ND	80.0	70-130	NA	NA	
Bentazon	0.152	0.059	0.011	mg/kg dry	0.196	ND	77.6	65-125	NA	NA	
Dicamba	0.159	0.059	0.0095	mg/kg dry	0.196	ND	80.8	30-120	NA	NA	
Dinoseb	0.106	0.059	0.0059	mg/kg dry	0.196	ND	54.2	30-120	NA	NA	
M.C.P.A.	0.162	0.059	0.017	mg/kg dry	0.196	ND	82.4	30-120	NA	NA	
Pentachlorophenol	0.152	0.059	0.0083	mg/kg dry	0.196	ND	77.6	50-120	NA	NA	
Picloram	<0.059	0.059	0.013	mg/kg dry	0.196	ND	NA	30-100	NA	NA	
Triclopyr	0.162	0.059	0.0071	mg/kg dry	0.196	ND	82.2	30-120	NA	NA	
Surrogate: D.C.A.A.	*0.161*			mg/kg dry	*0.196*	*NA*	*81.8*	*50-125*			

Matrix Spike Duplicate (B9I0256-MSD1)

Source: 0904744-01RE1 Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.144	0.059	0.011	mg/kg dry	0.196	ND	73.2	30-130	13.3	25	
2,4,5-T.P.	0.145	0.059	0.0083	mg/kg dry	0.196	ND	73.8	40-130	11.3	25	
2,4-D	0.155	0.059	0.014	mg/kg dry	0.196	ND	78.8	30-125	5.26	25	
2,4-D.B.	0.150	0.059	0.013	mg/kg dry	0.196	ND	76.2	70-130	4.93	25	
Bentazon	0.145	0.059	0.011	mg/kg dry	0.196	ND	73.6	65-125	5.36	25	
Dicamba	0.152	0.059	0.0095	mg/kg dry	0.196	ND	77.6	30-120	4.11	25	
Dinoseb	0.120	0.059	0.0059	mg/kg dry	0.196	ND	61.2	30-120	12.1	25	
M.C.P.A.	0.152	0.059	0.017	mg/kg dry	0.196	ND	77.6	30-120	6.07	25	
Pentachlorophenol	0.152	0.059	0.0083	mg/kg dry	0.196	ND	77.2	50-120	0.583	25	
Picloram	<0.059	0.059	0.013	mg/kg dry	0.196	ND	NA	30-100	NA	25	
Triclopyr	0.153	0.059	0.0071	mg/kg dry	0.196	ND	78.0	30-120	5.31	25	
Surrogate: D.C.A.A.	*0.149*			mg/kg dry	*0.196*	*NA*	*76.0*	*50-125*			

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BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904785
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

0904785

Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number: 23/19-B05 SI RI 300 07

Project Name: UMA SSI/RI

№ 28514

COC 1 of 2

Project Manager: SME

Project Contact: KSN

Sampled by: ESC

Laboratory: Braun

Number of Containers/Preservative — Water: List 1 + 2 Pesticides; OC Pesticides; Arsenic. Soil: VOCs (2-oz. tared MeOH) *1; GRO, BTEX (2-oz tared MeOH) *1; DRO (2-oz tared) - 25 grams; Metals (2-oz unpreserved); SVOCs (2 or 4-oz unpres.) *2; % Moisture (plastic vial, unpres.); OC Pesticides; List 1+2 Pesticides; Total No. Of Containers

Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: OC	Water: List 1+2 Pesticides	Water: OC Pesticides	Water: Arsenic	Soil: % Moisture (plastic vial, unpres.)	Soil: OC Pesticides	Soil: List 1+2 Pesticides	Total No. Of Containers	Remarks
1. SOC5-GP4	9-1-09	0900	X		X			4	1					7	See attached analyte list
2. SOC5-GP27(4.5-5)	9-1-09	1050		X	X						1	1	1	3	← Hold + freeze
3. SOC5-GP27(0.5-1)	9/1/09	1040		X		X					1	1	1	3	HOLD + FREEZE
4. SOC5-GP27(2-2.5')	9/1/09	1045		X		X					1	1	1	3	SEE ATTACHED LIST
5. SOC5-GP13(0.5-1)	9/1/09	1240		X		X					1	1	1	3	HOLD + FREEZE
6. SOC5-GP13(2-2.5)	9/1/09	1245		X		X					1	1	1	3	SEE ATTACHED LIST
7. SOC5-GP13(4.5-5)	9/1/09	1250		X	X						1	1	1	3	HOLD + FREEZE
8. SOC5-GP12(0.5-1')	9/1/09	1420		X		X					1	1	1	3	HOLD + FREEZE
9. SOC5-GP12(2-2.5')	9/1/09	1425		X		X					1	1	1	3	SEE ATTACHED LIST
10. SOC5-GP12(4.5-5)	9/1/09	1430		X	X						1	1	1	3	HOLD + FREEZE
11. SOC5-GP14 (0.5-1)	9/1/09	1540		X		X					1	1	1	3	HOLD + FREEZE
12. SOC5-GP14(2-2.5')	9/1/09	1545		X		X					1	1	1	3	SEE ATTACHED LIST

Common Parameter/Container - Preservation Key
*1 - Volatile Organics = BTEX, GRO, TPH, Full List
*2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
*3 - General = pH, Chloride, Flouride, Alkalinity, TSS, TDS, TS, Sulfate
*4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
[signature] BT	Y N: Y	9/3/09	645			
Relinquished By:	On Ice? Y N	Date	Time	Received by: [signature]	Date 9/3/09	Time 1025

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other

Air Bill Number:

C#1: 3.7°C C#2: 3.1°C + ICE + TB

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904785
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

0904785

Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number: 23/19-B05.31.R1.30D
Project Name: UMA SSI/RI
№ 28509

COC 2 of 2
Project Manager: JME
Project Contact: KSN
Sampled by: ZSC
Laboratory: Braun

Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Volatile Organics (Pres.)*1	Semivolatile Organics *2	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	General (Unpreserved) *3	Cyanide (NaOH)	Nutrients (H_2SO_4) *4	Oil and Grease (H_2SO_4)	Sulfide (Zn Acetate)	Methane	Bacteria ($Na_2S_2O_3$)	DRO (HCl)	VOCs (2-oz tared MeOH)*1	GRO, BTEX (2-oz tared MeOH)*1	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.)*2	% Moisture (plastic vial, unpres.)	QC PEST	LIST 1+2	Total No. Of Containers	Remarks
1. SOCS-6914(15-5)	9/1/09	1550		X		X																			1	1	1	3	Hold & Freeze
2.																													
3.																													
4.																													
5.																													
6.																													
7.																													
8.																													
9.																													
10.																													
11.																													
12.																													

Common Parameter/Container - Preservation Key
*1 - Volatile Organics = BTEX, GRO, TPH, Full List
*2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
*3 - General = pH, Chloride, Flouride, Alkalinity, TSS, TDS, TS, Sulfate
*4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice? Y N	Date	Time	Received by:	Date	Time
[illegible]	Y	9/3/09	0845			
Relinquished By:	On Ice? Y N	Date	Time	Received by:	Date	Time

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other _____
Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

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Braun Intertec Corporation
11001 Hampshire Avenue S.
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Web: braunintertec.com

Ms. Kelly Neppl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

September 15, 2009

Work Order #: 0904847

RE: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300

Dear Kelly Neppl:

Braun Intertec Corporation received samples for the project identified above on September 04, 2009. Analytical results are summarized in the following report.

All routine quality assurance procedures were followed, unless otherwise noted.

Analytical results are reported on an "as received" basis unless otherwise noted. Where possible, the samples will be retained by the laboratory for 14 days following issuance of the initial final report. The samples will be disposed of or returned at that time. Arrangements can be made for extended storage by contacting me at this time.

We appreciate your decision to use Braun Intertec Corporation for this project. We are committed to being your vendor of choice to meet your analytical chemistry needs.

If you have any questions please contact me at the above phone number.

Sincerely,

Steven J. Albrecht

Steven J. Albrecht
Associate Principal

Certification/Accreditation Numbers

Minnesota Department of Health: 027-053-117 Wisconsin DNR: 999462640

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904847
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

How to Use this Report

In order to get the most out of the information presented in this report please refer to the following explanations as to how the data in this report is tied together and how some of the terms are defined.

Qualifiers and Abbreviations are defined in the following section. You will find these codes used throughout the report in headers and in note sections to designate a unique fact about the data to which they are associated.

The Case Narrative gives a "story" about the analysis and results. Here you will find greater elaboration on relevant qualifiers as well as an explanation of anything of particular note in the data. This is a discussion of the data in terms of quality control and chemistry. It is a summary of any deviations that could affect the usefulness of the data. This is not an interpretation as to how this information relates to regulatory compliance, toxicity, or hazardous characterization. These items are beyond the scope of this report.

The Sample Summary provides detail on sample receipt. The association between Client sample ID and the Laboratory sample ID are defined here; this information is valuable to have when discussing results with your project manager. Sample collection and receipt dates and times are provided here as well. General notes regarding the work order are also documented here. This is a mini "case narrative" that describes any anomalies regarding the condition of the samples upon arrival to the laboratory or special circumstances regarding the work order.

The Conditions Upon Receipt summarizes the results of specific checks that have been performed at sample receipt. This includes items like custody documentation, sample condition, and temperature at receipt. Each "cooler" is identified and the conditions associated with that cooler are documented. A "cooler" is defined as the larger container used to transport the individual samples. In most cases this is a standard recreational cooler but it can be a box, plastic bag, or other container.

The laboratory results are summarized in the following sections. Data is broken down into major categories for convenience. An example of such a category would be "Total Petroleum Hydrocarbons." Here you would find data that references the testing of such parameters as diesel range organics and gasoline range organics. Other categories are similarly mapped. The batch number is associated with each sample. This is important to evaluate Quality Control (QC) data. Surrogate results samples are provided with each sample. Laboratory control limits are provided for comparison (see below). The reference method is also identified. If a method is denoted with an "M" (e.g. EPA 1234(M)) this means that it has been modified. An explanation of the modification will be found in the Case Narrative. A result is given with appropriate units. If a soil sample is dry-weight corrected then the word "dry" will appear next to the units. If the word "dry" does not appear then the result is "as received."

The Method Reporting Limit (MRL) and Method Detection Limit (MDL) are provided. It is important to understand these terms. The MRL is a level that has been empirically verified to provide reliable quantitation of results. Results that are equal to or greater than this value will show up in bold. They are considered "hits." The MDL is a statistically derived number that indicates an estimated concentration at which an analyte can be detected above the noise level. If a result is less than the MRL but greater than the MDL then it is considered an estimate. Such a result is reported with a "J" flag denoting that it has been detected but that the result is an estimate.

In this specific report format, the majority of the analyses are reported without estimated concentrations less than the MRL. For these analyses, if a result is less than the MRL, the result is given as less than the MRL (e.g. if the MRL = 10 then a less than result would be given as "<10"). However, for the Organochlorine Pesticides in water and MDA List 1 Pesticides in water analyses, if a result is less than the MRL but greater than the MDL, then an estimated result is reported with a "J" flag. If a result for either of these two analyses is less than the MDL, then the result is given as less than the MDL.

The Quality Control (QC) samples are documented in the following section. Here you will find the preparation batches associated with each sample from the results section. The sample preparation method is also defined here. Accuracy is represented here in terms of a percent recovery as compared to a known value. Precision is represented as a relative percent difference between two duplicate sample aliquots. The laboratory control limits are provided as a means to evaluate the quality control data. If the result falls outside the laboratory control limits this simply means that it is outside what is typical for the laboratory and is noted accordingly. This does not mean that the data is invalid. Laboratory control limits are generally tighter than most program limits. This is a very important distinction. How the data is ultimately used determines its validity. Program requirements are defined in the Quality Assurance Project Plan (QAPP) governing the project. If your project manager is aware of your specific program requirements then a note will be made in the case narrative if the data fails to meet any of these requirements.

The last section contains copies of important documents and/or instrument printouts relevant to the report. This includes the chain of custody. It also may include items like chromatograms or spectra.

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904847
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Qualifiers and Abbreviations

qn	The spike recovery is outside of laboratory control limits for the matrix spike (MS) and/or the matrix spike duplicate (MSD).
COC	Chain of Custody
dry	Sample results reported on a dry weight basis
MDL	Method Detection Limit
MRL	Method Reporting Limit
NA	Not Applicable
ND	Analyte NOT DETECTED
NR	Not Reported
%Rec	Percent Recovery
RPD	Relative Percent Difference
VOC	Volatile Organic Compound

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SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC5-GP3	0904847-01	Water	09/03/09 11:00	09/04/09 11:09
SOC5 -GP1 MS-MSD	0904847-02	Water	09/03/09 14:30	09/04/09 11:09

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Conditions Upon Receipt

Cooler: Cooler 1

Temperature:	10.7 °C	**COC Included:**	Yes	**Custody Seals Used:**	No
Temperature Blank:	Yes	**COC Complete:**	Yes	**Custody Seals Intact:**	NA
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	No
Preservation Confirmed:	No	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

Cooler: Cooler 2

Temperature:	11.0 °C	**COC Included:**	Yes	**Custody Seals Used:**	No
Temperature Blank:	Yes	**COC Complete:**	Yes	**Custody Seals Intact:**	NA
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	No
Preservation Confirmed:	No	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

Cooler: Cooler 3

Temperature:	8.4 °C	**COC Included:**	Yes	**Custody Seals Used:**	No
Temperature Blank:	Yes	**COC Complete:**	Yes	**Custody Seals Intact:**	NA
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	No
Preservation Confirmed:	Yes	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

Cooler: Cooler 4

Temperature:	6.5 °C	**COC Included:**	Yes	**Custody Seals Used:**	No
Temperature Blank:	Yes	**COC Complete:**	Yes	**Custody Seals Intact:**	NA
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	No
Preservation Confirmed:	No	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

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SOC5-GP3

0904847-01 (Water)

9/3/09 11:00

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.33	0.65	0.33	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:06	EPA 8270C	
Alachlor	<0.25	0.65	0.25	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:06	EPA 8270C	
Atrazine	**0.90**	0.65	0.31	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:06	EPA 8270C	
Chlorpyrifos	<0.44	0.65	0.44	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:06	EPA 8270C	
Cyanazine	<0.63	0.65	0.63	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:06	EPA 8270C	
Deisopropylatrazine	<0.34	0.65	0.34	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:06	EPA 8270C	
Desethylatrazine	**1.9**	0.65	0.38	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:06	EPA 8270C	
Dimethenamid	<0.31	0.65	0.31	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:06	EPA 8270C	
EPTC	<0.28	0.65	0.28	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:06	EPA 8270C	
Ethalfluralin	<0.61	0.65	0.61	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:06	EPA 8270C	
Fonofos	<0.39	0.65	0.39	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:06	EPA 8270C	
Metolachlor	<0.36	0.65	0.36	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:06	EPA 8270C	
Metribuzin	<0.46	0.65	0.46	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:06	EPA 8270C	
Pendimethalin	<0.33	0.65	0.33	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:06	EPA 8270C	
Phorate	<0.76	1.3	0.76	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:06	EPA 8270C	
Prometon	<0.38	0.65	0.38	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:06	EPA 8270C	
Propachlor	<0.18	0.65	0.18	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:06	EPA 8270C	
Propazine	<0.27	0.65	0.27	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:06	EPA 8270C	
Simazine	<0.41	0.65	0.41	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:06	EPA 8270C	
Terbufos	<0.71	1.3	0.71	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:06	EPA 8270C	
Triallate	<0.44	0.65	0.44	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:06	EPA 8270C	
Trifluralin	<0.28	0.65	0.28	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:06	EPA 8270C	
Surr: Atrazine-d5	*81.2 %*	*Limits: 50-120%*			*B9I0151*	*9/9/09 6:35*	*9/11/09 15:06*	*EPA 8270C*	
Surr: Diazinon-d10	*81.3 %*	*Limits: 50-120%*			*B9I0151*	*9/9/09 6:35*	*9/11/09 15:06*	*EPA 8270C*	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-GP3

0904847-01 (Water)

9/3/09 11:00

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.65	0.65	0.40	ug/L	B9I0107	9/8/09 5:56	9/10/09 14:08	EPA 8270C	
2,4,5-T.P.	<0.65	0.65	0.37	ug/L	B9I0107	9/8/09 5:56	9/10/09 14:08	EPA 8270C	
2,4-D	<0.65	0.65	0.34	ug/L	B9I0107	9/8/09 5:56	9/10/09 14:08	EPA 8270C	
2,4-D.B.	<0.65	0.65	0.19	ug/L	B9I0107	9/8/09 5:56	9/10/09 14:08	EPA 8270C	
Bentazon	<0.65	0.65	0.29	ug/L	B9I0107	9/8/09 5:56	9/10/09 14:08	EPA 8270C	
Dicamba	<0.65	0.65	0.49	ug/L	B9I0107	9/8/09 5:56	9/10/09 14:08	EPA 8270C	
Dinoseb	<1.3	1.3	0.44	ug/L	B9I0107	9/8/09 5:56	9/10/09 14:08	EPA 8270C	
M.C.P.A.	<0.39	0.39	0.38	ug/L	B9I0107	9/8/09 5:56	9/10/09 14:08	EPA 8270C	qn
Pentachlorophenol	<0.65	0.65	0.51	ug/L	B9I0107	9/8/09 5:56	9/10/09 14:08	EPA 8270C	qn
Picloram	<0.65	0.65	0.32	ug/L	B9I0107	9/8/09 5:56	9/10/09 14:08	EPA 8270C	
Triclopyr	<0.65	0.65	0.53	ug/L	B9I0107	9/8/09 5:56	9/10/09 14:08	EPA 8270C	
Surr: D.C.A.A.	*73.8 %*	*Limits: 65-130%*			*B9I0107*	*9/8/09 5:56*	*9/10/09 14:08*	*EPA 8270C*	

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5 -GP1 MS-MSD

0904847-02 (Water)

9/3/09 14:30

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.33	0.65	0.33	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:32	EPA 8270C	
Alachlor	<0.25	0.65	0.25	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:32	EPA 8270C	
Atrazine	<0.31	0.65	0.31	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:32	EPA 8270C	
Chlorpyrifos	<0.44	0.65	0.44	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:32	EPA 8270C	
Cyanazine	<0.63	0.65	0.63	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:32	EPA 8270C	
Deisopropylatrazine	<0.34	0.65	0.34	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:32	EPA 8270C	
Desethylatrazine	<0.38	0.65	0.38	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:32	EPA 8270C	
Dimethenamid	<0.31	0.65	0.31	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:32	EPA 8270C	
EPTC	<0.28	0.65	0.28	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:32	EPA 8270C	
Ethalfluralin	<0.61	0.65	0.61	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:32	EPA 8270C	
Fonofos	<0.39	0.65	0.39	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:32	EPA 8270C	
Metolachlor	<0.36	0.65	0.36	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:32	EPA 8270C	
Metribuzin	<0.46	0.65	0.46	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:32	EPA 8270C	
Pendimethalin	<0.33	0.65	0.33	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:32	EPA 8270C	
Phorate	<0.76	1.3	0.76	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:32	EPA 8270C	
Prometon	<0.38	0.65	0.38	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:32	EPA 8270C	
Propachlor	<0.18	0.65	0.18	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:32	EPA 8270C	
Propazine	<0.27	0.65	0.27	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:32	EPA 8270C	
Simazine	<0.41	0.65	0.41	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:32	EPA 8270C	
Terbufos	<0.71	1.3	0.71	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:32	EPA 8270C	
Triallate	<0.44	0.65	0.44	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:32	EPA 8270C	
Trifluralin	<0.28	0.65	0.28	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:32	EPA 8270C	
Surr: Atrazine-d5	*80.0 %*	*Limits: 50-120%*			*B9I0151*	*9/9/09 6:35*	*9/11/09 15:32*	*EPA 8270C*	
Surr: Diazinon-d10	*76.4 %*	*Limits: 50-120%*			*B9I0151*	*9/9/09 6:35*	*9/11/09 15:32*	*EPA 8270C*	

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5 -GP1 MS-MSD

0904847-02 (Water)

9/3/09 14:30

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.60	0.60	0.38	ug/L	B9I0107	9/8/09 5:56	9/10/09 14:33	EPA 8270C	
2,4,5-T.P.	<0.60	0.60	0.34	ug/L	B9I0107	9/8/09 5:56	9/10/09 14:33	EPA 8270C	
2,4-D	<0.60	0.60	0.32	ug/L	B9I0107	9/8/09 5:56	9/10/09 14:33	EPA 8270C	
2,4-D.B.	<0.60	0.60	0.18	ug/L	B9I0107	9/8/09 5:56	9/10/09 14:33	EPA 8270C	
Bentazon	<0.60	0.60	0.27	ug/L	B9I0107	9/8/09 5:56	9/10/09 14:33	EPA 8270C	
Dicamba	<0.60	0.60	0.46	ug/L	B9I0107	9/8/09 5:56	9/10/09 14:33	EPA 8270C	
Dinoseb	<1.2	1.2	0.41	ug/L	B9I0107	9/8/09 5:56	9/10/09 14:33	EPA 8270C	
M.C.P.A.	<0.36	0.36	0.35	ug/L	B9I0107	9/8/09 5:56	9/10/09 14:33	EPA 8270C	qn
Pentachlorophenol	<0.60	0.60	0.47	ug/L	B9I0107	9/8/09 5:56	9/10/09 14:33	EPA 8270C	qn
Picloram	<0.60	0.60	0.30	ug/L	B9I0107	9/8/09 5:56	9/10/09 14:33	EPA 8270C	
Triclopyr	<0.60	0.60	0.49	ug/L	B9I0107	9/8/09 5:56	9/10/09 14:33	EPA 8270C	
Surr: D.C.A.A.	*79.8 %*	*Limits: 65-130%*			*B9I0107*	*9/8/09 5:56*	*9/10/09 14:33*	*EPA 8270C*	

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0151 - EPA 3510C

Method Blank (B9I0151-BLK1)

Prepared: 09/09/09 Analyzed: 09/11/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	<0.25	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Alachlor	<0.19	0.50	0.19	ug/L	NA	NA	NA	NA	NA	NA	
Atrazine	<0.24	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	<0.34	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Cyanazine	<0.48	0.50	0.48	ug/L	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	<0.26	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
Desethylatrazine	<0.29	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Dimethenamid	<0.24	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
EPTC	<0.22	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Ethalfluralin	<0.47	0.50	0.47	ug/L	NA	NA	NA	NA	NA	NA	
Fonofos	<0.30	0.50	0.30	ug/L	NA	NA	NA	NA	NA	NA	
Metolachlor	<0.28	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
Metribuzin	<0.35	0.50	0.35	ug/L	NA	NA	NA	NA	NA	NA	
Pendimethalin	<0.25	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Phorate	<0.58	1.0	0.58	ug/L	NA	NA	NA	NA	NA	NA	
Prometon	<0.29	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Propachlor	<0.14	0.50	0.14	ug/L	NA	NA	NA	NA	NA	NA	
Propazine	<0.21	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Simazine	<0.32	0.50	0.32	ug/L	NA	NA	NA	NA	NA	NA	
Terbufos	<0.54	1.0	0.54	ug/L	NA	NA	NA	NA	NA	NA	
Triallate	<0.34	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Trifluralin	<0.21	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: Atrazine-d5	*8.65*			ug/L	*10.0*	*NA*	*86.5*	*50-120*			
Surrogate: Diazinon-d10	*8.02*			ug/L	*10.0*	*NA*	*80.2*	*50-120*			

Laboratory Control Sample (B9I0151-BS1)

Prepared: 09/09/09 Analyzed: 09/11/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	8.83	0.50	0.25	ug/L	10.0	NA	88.3	65-115	NA	NA	
Alachlor	8.87	0.50	0.19	ug/L	10.0	NA	88.7	65-115	NA	NA	
Atrazine	8.45	0.50	0.24	ug/L	10.0	NA	84.5	65-115	NA	NA	
Chlorpyrifos	8.45	0.50	0.34	ug/L	10.0	NA	84.5	65-115	NA	NA	
Cyanazine	10.4	0.50	0.48	ug/L	10.0	NA	104	65-115	NA	NA	
Deisopropylatrazine	8.60	0.50	0.26	ug/L	10.0	NA	86.0	65-115	NA	NA	
Desethylatrazine	9.00	0.50	0.29	ug/L	10.0	NA	90.0	65-115	NA	NA	
Dimethenamid	8.54	0.50	0.24	ug/L	10.0	NA	85.4	65-115	NA	NA	
EPTC	7.22	0.50	0.22	ug/L	10.0	NA	72.2	50-110	NA	NA	
Ethalfluralin	9.23	0.50	0.47	ug/L	10.0	NA	92.3	65-115	NA	NA	
Fonofos	8.40	0.50	0.30	ug/L	10.0	NA	84.0	55-115	NA	NA	
Metolachlor	9.06	0.50	0.28	ug/L	10.0	NA	90.6	70-120	NA	NA	
Metribuzin	9.37	0.50	0.35	ug/L	10.0	NA	93.7	70-120	NA	NA	
Pendimethalin	9.02	0.50	0.25	ug/L	10.0	NA	90.2	65-115	NA	NA	
Phorate	7.79	1.0	0.58	ug/L	10.0	NA	77.9	30-100	NA	NA	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904847
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0151 - EPA 3510C

Laboratory Control Sample (B9I0151-BS1)

Prepared: 09/09/09 Analyzed: 09/11/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	9.34	0.50	0.29	ug/L	10.0	NA	93.4	70-120	NA	NA	
Propachlor	8.70	0.50	0.14	ug/L	10.0	NA	87.0	65-115	NA	NA	
Propazine	8.74	0.50	0.21	ug/L	10.0	NA	87.4	65-115	NA	NA	
Simazine	10.2	0.50	0.32	ug/L	10.0	NA	102	65-115	NA	NA	
Terbufos	8.39	1.0	0.54	ug/L	10.0	NA	83.9	30-100	NA	NA	
Triallate	8.24	0.50	0.34	ug/L	10.0	NA	82.4	65-115	NA	NA	
Trifluralin	8.81	0.50	0.21	ug/L	10.0	NA	88.1	65-115	NA	NA	
Surrogate: Atrazine-d5	*8.35*			ug/L	*10.0*	*NA*	*83.5*	*50-120*			
Surrogate: Diazinon-d10	*8.05*			ug/L	*10.0*	*NA*	*80.5*	*50-120*			

Laboratory Control Sample Duplicate (B9I0151-BSD1)

Prepared: 09/09/09 Analyzed: 09/11/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	8.63	0.50	0.25	ug/L	10.0	NA	86.3	65-115	2.29	25	
Alachlor	8.66	0.50	0.19	ug/L	10.0	NA	86.6	65-115	2.40	25	
Atrazine	8.62	0.50	0.24	ug/L	10.0	NA	86.2	65-115	1.99	25	
Chlorpyrifos	8.10	0.50	0.34	ug/L	10.0	NA	81.0	65-115	4.23	25	
Cyanazine	10.5	0.50	0.48	ug/L	10.0	NA	105	65-115	1.15	25	
Deisopropylatrazine	8.21	0.50	0.26	ug/L	10.0	NA	82.1	65-115	4.64	25	
Desethylatrazine	8.82	0.50	0.29	ug/L	10.0	NA	88.2	65-115	2.02	25	
Dimethenamid	8.55	0.50	0.24	ug/L	10.0	NA	85.5	65-115	0.117	25	
EPTC	6.98	0.50	0.22	ug/L	10.0	NA	69.8	50-110	3.38	30	
Ethalfluralin	9.10	0.50	0.47	ug/L	10.0	NA	91.0	65-115	1.42	30	
Fonofos	8.05	0.50	0.30	ug/L	10.0	NA	80.5	55-115	4.26	30	
Metolachlor	8.75	0.50	0.28	ug/L	10.0	NA	87.5	70-120	3.48	25	
Metribuzin	9.64	0.50	0.35	ug/L	10.0	NA	96.4	70-120	2.84	25	
Pendimethalin	8.66	0.50	0.25	ug/L	10.0	NA	86.6	65-115	4.07	25	
Phorate	7.34	1.0	0.58	ug/L	10.0	NA	73.4	30-100	5.95	30	
Prometon	9.42	0.50	0.29	ug/L	10.0	NA	94.2	70-120	0.853	30	
Propachlor	8.11	0.50	0.14	ug/L	10.0	NA	81.1	65-115	7.02	30	
Propazine	8.65	0.50	0.21	ug/L	10.0	NA	86.5	65-115	1.04	25	
Simazine	10.1	0.50	0.32	ug/L	10.0	NA	101	65-115	1.09	25	
Terbufos	8.24	1.0	0.54	ug/L	10.0	NA	82.4	30-100	1.80	30	
Triallate	7.98	0.50	0.34	ug/L	10.0	NA	79.8	65-115	3.21	25	
Trifluralin	8.60	0.50	0.21	ug/L	10.0	NA	86.0	65-115	2.41	25	
Surrogate: Atrazine-d5	*8.11*			ug/L	*10.0*	*NA*	*81.1*	*50-120*			
Surrogate: Diazinon-d10	*7.89*			ug/L	*10.0*	*NA*	*78.9*	*50-120*			

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0151 - EPA 3510C

Matrix Spike (B9I0151-MS1)

Source: 0904847-02 Prepared: 09/09/09 Analyzed: 09/11/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	9.64	0.58	0.29	ug/L	11.6	ND	83.4	65-115	NA	NA	
Alachlor	10.0	0.58	0.22	ug/L	11.6	ND	86.5	65-115	NA	NA	
Atrazine	10.0	0.58	0.27	ug/L	11.6	ND	86.6	65-115	NA	NA	
Chlorpyrifos	9.29	0.58	0.39	ug/L	11.6	ND	80.4	60-115	NA	NA	
Cyanazine	12.0	0.58	0.56	ug/L	11.6	ND	104	65-120	NA	NA	
Deisopropylatrazine	9.62	0.58	0.30	ug/L	11.6	ND	83.2	65-115	NA	NA	
Desethylatrazine	10.1	0.58	0.34	ug/L	11.6	ND	87.3	65-115	NA	NA	
Dimethenamid	9.60	0.58	0.27	ug/L	11.6	ND	83.0	65-120	NA	NA	
EPTC	8.96	0.58	0.25	ug/L	11.6	ND	77.5	50-110	NA	NA	
Ethalfluralin	10.7	0.58	0.54	ug/L	11.6	ND	92.5	65-115	NA	NA	
Fonofos	9.35	0.58	0.34	ug/L	11.6	ND	80.9	55-115	NA	NA	
Metolachlor	9.88	0.58	0.32	ug/L	11.6	ND	85.5	65-120	NA	NA	
Metribuzin	10.7	0.58	0.40	ug/L	11.6	ND	92.6	65-120	NA	NA	
Pendimethalin	10.1	0.58	0.29	ug/L	11.6	ND	87.0	60-115	NA	NA	
Phorate	8.95	1.2	0.68	ug/L	11.6	ND	77.4	30-100	NA	NA	
Prometon	10.3	0.58	0.34	ug/L	11.6	ND	89.3	70-120	NA	NA	
Propachlor	9.41	0.58	0.16	ug/L	11.6	ND	81.4	65-115	NA	NA	
Propazine	9.83	0.58	0.24	ug/L	11.6	ND	85.0	65-115	NA	NA	
Simazine	11.1	0.58	0.37	ug/L	11.6	ND	96.4	60-115	NA	NA	
Terbufos	9.48	1.2	0.63	ug/L	11.6	ND	82.0	30-100	NA	NA	
Triallate	9.18	0.58	0.39	ug/L	11.6	ND	79.4	60-115	NA	NA	
Trifluralin	9.94	0.58	0.25	ug/L	11.6	ND	86.0	65-115	NA	NA	
Surrogate: Atrazine-d5	*9.29*			ug/L	*11.6*	*NA*	*80.4*	*50-120*			
Surrogate: Diazinon-d10	*9.04*			ug/L	*11.6*	*NA*	*78.2*	*50-120*			

Matrix Spike Duplicate (B9I0151-MSD1)

Source: 0904847-02 Prepared: 09/09/09 Analyzed: 09/11/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	10.5	0.58	0.29	ug/L	11.6	ND	90.2	65-115	8.41	30	
Alachlor	10.1	0.58	0.22	ug/L	11.6	ND	87.2	65-115	1.39	30	
Atrazine	10.3	0.58	0.28	ug/L	11.6	ND	88.4	65-115	2.64	30	
Chlorpyrifos	9.83	0.58	0.39	ug/L	11.6	ND	84.5	60-115	5.55	30	
Cyanazine	12.3	0.58	0.56	ug/L	11.6	ND	106	65-120	2.67	30	
Deisopropylatrazine	10.1	0.58	0.30	ug/L	11.6	ND	86.9	65-115	4.93	30	
Desethylatrazine	10.6	0.58	0.34	ug/L	11.6	ND	91.1	65-115	4.84	30	
Dimethenamid	9.98	0.58	0.27	ug/L	11.6	ND	85.8	65-120	3.90	30	
EPTC	9.28	0.58	0.25	ug/L	11.6	ND	79.8	50-110	3.50	30	
Ethalfluralin	11.2	0.58	0.54	ug/L	11.6	ND	96.2	65-115	4.50	30	
Fonofos	9.81	0.58	0.34	ug/L	11.6	ND	84.4	55-115	4.81	30	
Metolachlor	10.4	0.58	0.32	ug/L	11.6	ND	89.4	65-120	5.04	30	
Metribuzin	10.9	0.58	0.41	ug/L	11.6	ND	93.4	65-120	1.44	30	
Pendimethalin	10.4	0.58	0.29	ug/L	11.6	ND	89.7	60-115	3.64	30	
Phorate	9.26	1.2	0.68	ug/L	11.6	ND	79.6	30-100	3.38	30	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904847
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0151 - EPA 3510C

Matrix Spike Duplicate (B9I0151-MSD1) **Source: 0904847-02** Prepared: 09/09/09 Analyzed: 09/11/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	10.7	0.58	0.34	ug/L	11.6	ND	91.7	70-120	3.23	30	
Propachlor	10.0	0.58	0.16	ug/L	11.6	ND	86.1	65-115	6.19	30	
Propazine	10.3	0.58	0.24	ug/L	11.6	ND	88.8	65-115	4.95	30	
Simazine	11.3	0.58	0.37	ug/L	11.6	ND	97.1	60-115	1.30	30	
Terbufos	9.62	1.2	0.63	ug/L	11.6	ND	82.7	30-100	1.43	30	
Triallate	9.57	0.58	0.39	ug/L	11.6	ND	82.3	60-115	4.17	30	
Trifluralin	10.4	0.58	0.25	ug/L	11.6	ND	89.3	65-115	4.34	30	
Surrogate: Atrazine-d5	*9.74*			ug/L	*11.6*	*NA*	*83.8*	*50-120*			
Surrogate: Diazinon-d10	*9.30*			ug/L	*11.6*	*NA*	*80.0*	*50-120*			

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0107 - EPA 3510C

Method Blank (B9I0107-BLK1)

Prepared: 09/08/09 Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	<0.50	0.50	0.31	ug/L	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	<0.50	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D	<0.50	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D.B.	<0.50	0.50	0.15	ug/L	NA	NA	NA	NA	NA	NA	
Bentazon	<0.50	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Dicamba	<0.50	0.50	0.38	ug/L	NA	NA	NA	NA	NA	NA	
Dinoseb	<1.0	1.0	0.34	ug/L	NA	NA	NA	NA	NA	NA	
M.C.P.A.	<0.30	0.30	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	<0.50	0.50	0.39	ug/L	NA	NA	NA	NA	NA	NA	
Picloram	<0.50	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Triclopyr	<0.50	0.50	0.41	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	*3.95*			ug/L	*5.00*	*NA*	*79.0*	*65-130*			

Laboratory Control Sample (B9I0107-BS1)

Prepared: 09/08/09 Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.62	0.50	0.31	ug/L	5.00	NA	92.4	70-130	NA	NA	
2,4,5-T.P.	4.57	0.50	0.28	ug/L	5.00	NA	91.4	70-130	NA	NA	
2,4-D	4.23	0.50	0.26	ug/L	5.00	NA	84.6	70-130	NA	NA	
2,4-D.B.	5.67	0.50	0.15	ug/L	5.00	NA	113	75-140	NA	NA	
Bentazon	5.14	0.50	0.22	ug/L	5.00	NA	103	75-135	NA	NA	
Dicamba	3.82	0.50	0.38	ug/L	5.00	NA	76.4	65-130	NA	NA	
Dinoseb	3.57	1.0	0.34	ug/L	5.00	NA	71.4	40-125	NA	NA	
M.C.P.A.	3.67	0.30	0.29	ug/L	5.00	NA	73.4	70-130	NA	NA	
Pentachlorophenol	4.25	0.50	0.39	ug/L	5.00	NA	85.0	70-120	NA	NA	
Picloram	3.81	0.50	0.25	ug/L	5.00	NA	76.2	60-125	NA	NA	
Triclopyr	4.32	0.50	0.41	ug/L	5.00	NA	86.4	75-125	NA	NA	
Surrogate: D.C.A.A.	*3.80*			ug/L	*5.00*	*NA*	*76.0*	*65-130*			

Laboratory Control Sample Duplicate (B9I0107-BSD1)

Prepared: 09/08/09 Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.33	0.50	0.31	ug/L	5.00	NA	86.6	70-130	6.48	20	
2,4,5-T.P.	4.65	0.50	0.28	ug/L	5.00	NA	93.0	70-130	1.74	20	
2,4-D	4.25	0.50	0.26	ug/L	5.00	NA	85.0	70-130	0.472	20	
2,4-D.B.	5.52	0.50	0.15	ug/L	5.00	NA	110	75-140	2.68	20	
Bentazon	4.99	0.50	0.22	ug/L	5.00	NA	99.8	75-135	2.96	20	
Dicamba	3.80	0.50	0.38	ug/L	5.00	NA	76.0	65-130	0.525	20	
Dinoseb	3.45	1.0	0.34	ug/L	5.00	NA	69.0	40-125	3.42	20	
M.C.P.A.	3.75	0.30	0.29	ug/L	5.00	NA	75.0	70-130	2.16	20	
Pentachlorophenol	3.96	0.50	0.39	ug/L	5.00	NA	79.2	70-120	7.06	20	
Picloram	3.74	0.50	0.25	ug/L	5.00	NA	74.8	60-125	1.85	20	
Triclopyr	4.47	0.50	0.41	ug/L	5.00	NA	89.4	75-125	3.41	20	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0107 - EPA 3510C

Laboratory Control Sample Duplicate (B9I0107-BSD1)

Prepared: 09/08/09 Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: D.C.A.A.	*3.67*			ug/L	*5.00*	*NA*	*73.4*	*65-130*			

Matrix Spike (B9I0107-MS1)

Source: 0904847-02 Prepared: 09/08/09 Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.66	0.56	0.35	ug/L	5.62	ND	83.0	70-140	NA	NA	
2,4,5-T.P.	5.08	0.56	0.32	ug/L	5.62	ND	90.4	70-135	NA	NA	
2,4-D	4.49	0.56	0.30	ug/L	5.62	ND	80.0	70-140	NA	NA	
2,4-D.B.	5.90	0.56	0.17	ug/L	5.62	ND	105	75-140	NA	NA	
Bentazon	4.87	0.56	0.25	ug/L	5.62	ND	86.6	70-140	NA	NA	
Dicamba	4.35	0.56	0.43	ug/L	5.62	ND	77.4	65-140	NA	NA	
Dinoseb	4.37	1.1	0.39	ug/L	5.62	ND	77.8	40-130	NA	NA	
M.C.P.A.	3.34	0.34	0.33	ug/L	5.62	ND	59.4	60-140	NA	NA	
Pentachlorophenol	2.87	0.56	0.44	ug/L	5.62	ND	51.0	70-125	NA	NA	
Picloram	4.17	0.56	0.28	ug/L	5.62	ND	74.2	45-140	NA	NA	
Triclopyr	4.69	0.56	0.46	ug/L	5.62	ND	83.4	75-125	NA	NA	
Surrogate: D.C.A.A.	*4.45*			ug/L	*5.62*	*NA*	*79.2*	*65-130*			

Matrix Spike Duplicate (B9I0107-MSD1)

Source: 0904847-02 Prepared: 09/08/09 Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	5.00	0.57	0.36	ug/L	5.68	ND	88.0	70-140	6.98	25	
2,4,5-T.P.	5.19	0.57	0.32	ug/L	5.68	ND	91.4	70-135	2.23	25	
2,4-D	4.61	0.57	0.30	ug/L	5.68	ND	81.2	70-140	2.62	25	
2,4-D.B.	6.08	0.57	0.17	ug/L	5.68	ND	107	75-140	3.02	25	
Bentazon	4.47	0.57	0.26	ug/L	5.68	ND	78.6	70-140	8.56	25	
Dicamba	4.42	0.57	0.43	ug/L	5.68	ND	77.8	65-140	1.65	25	
Dinoseb	4.28	1.1	0.39	ug/L	5.68	ND	75.4	40-130	2.00	25	
M.C.P.A.	3.28	0.34	0.33	ug/L	5.68	ND	57.8	60-140	1.60	25	
Pentachlorophenol	2.28	0.57	0.45	ug/L	5.68	ND	40.2	70-125	22.6	25	
Picloram	4.43	0.57	0.29	ug/L	5.68	ND	78.0	45-140	6.12	25	
Triclopyr	4.94	0.57	0.46	ug/L	5.68	ND	87.0	75-125	5.35	25	
Surrogate: D.C.A.A.	*4.39*			ug/L	*5.68*	*NA*	*77.2*	*65-130*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904847
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

0904847

Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

.07

Project Number: 23/19-B0.5 SI.RI.300

Project Name: UMA SSI/RI

№ 23233

COC 1 of 1

Project Manager: JME

Project Contact: KJN

Sampled by: ESC

Laboratory: Braun

Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Volatile Organics (Pres.)*1	Semivolatile Organics *2	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	General (Unpreserved)*3	Cyanide (NaOH)	Nutrients (H_2SO_4)*4	Oil and Grease (H_2SO_4)	Sulfide (Zn Acetate)	Methane	Bacteria ($Na_2S_2O_3$)	DRO (HCl)	List 1+2 Pesticides, OC Pesticides, Nitrogen	VOCs (2-oz tared MeOH)*7	GRO, BTEX (2-oz tared MeOH)*7	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.)*2	% Moisture (plastic vial, unpres.)			Total No. Of Containers	Remarks
1. SOCS-GP3	9-3-09	1100	X		X															4										List 1+2 Pesticides See attached list
2. MS-water	9-3-09	1430	X				X	Matrix Spike												4	2	1							7	List 1+2 Pest, OC Pest, Nitrogen See attached list
3. MSD-water	9-3-09	1430	X				X	Matrix Spike Dup												4	2	1							7	"
4.																														
5.																														
6.																														COOLER #1: 10.7°C
7.																														#2: 11.0°C
8.																														#3: 8.4°C
9.																														#4: 6.5°C
10.																														
11.																														
12.																														

Common Parameter/Container - Preservation Key
*1 - Volatile Organics = BTEX, GRO, TPH, Full List
*2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
*3 - General = pH, Chloride, Flouride, Alkalinity, TSS, TDS, TS, Sulfate
*4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
Kelly Neppl	Y N	9/3/09	1700		9/4/09	1109
Relinquished By: Kelly Neppl	Y N	9/4/09	830	Received by:	Date	Time

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

H:\RLG\STDFORMS\Chain Of Custody Form RLG Rev. 07/01/05

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Braun Intertec Corporation
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Minneapolis, MN 55438

Phone: 952.995.2000
Fax: 952.995.2020
Web: braunintertec.com

Ms. Kelly Neppl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

October 20, 2009

Work Order #: 0904848
(Revised)

RE: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300

Dear Kelly Neppl:

Braun Intertec Corporation received samples for the project identified above on September 04, 2009. Analytical results are summarized in the following report.

All routine quality assurance procedures were followed, unless otherwise noted.

Analytical results are reported on an "as received" basis unless otherwise noted. Where possible, the samples will be retained by the laboratory for 14 days following issuance of the initial final report. The samples will be disposed of or returned at that time. Arrangements can be made for extended storage by contacting me at this time.

We appreciate your decision to use Braun Intertec Corporation for this project. We are committed to being your vendor of choice to meet your analytical chemistry needs.

If you have any questions please contact me at the above phone number.

Sincerely,

Steven J. Albrecht

Steven J. Albrecht
Associate Principal

Certification/Accreditation Numbers

Minnesota Department of Health: 027-053-117 Wisconsin DNR: 999462640

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904848
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

How to Use this Report

In order to get the most out of the information presented in this report please refer to the following explanations as to how the data in this report is tied together and how some of the terms are defined.

Qualifiers and Abbreviations are defined in the following section. You will find these codes used throughout the report in headers and in note sections to designate a unique fact about the data to which they are associated.

The Case Narrative gives a "story" about the analysis and results. Here you will find greater elaboration on relevant qualifiers as well as an explanation of anything of particular note in the data. This is a discussion of the data in terms of quality control and chemistry. It is a summary of any deviations that could affect the usefulness of the data. This is not an interpretation as to how this information relates to regulatory compliance, toxicity, or hazardous characterization. These items are beyond the scope of this report.

The Sample Summary provides detail on sample receipt. The association between Client sample ID and the Laboratory sample ID are defined here; this information is valuable to have when discussing results with your project manager. Sample collection and receipt dates and times are provided here as well. General notes regarding the work order are also documented here. This is a mini "case narrative" that describes any anomalies regarding the condition of the samples upon arrival to the laboratory or special circumstances regarding the work order.

The Conditions Upon Receipt summarizes the results of specific checks that have been performed at sample receipt. This includes items like custody documentation, sample condition, and temperature at receipt. Each "cooler" is identified and the conditions associated with that cooler are documented. A "cooler" is defined as the larger container used to transport the individual samples. In most cases this is a standard recreational cooler but it can be a box, plastic bag, or other container.

The laboratory results are summarized in the following sections. Data is broken down into major categories for convenience. An example of such a category would be "Total Petroleum Hydrocarbons." Here you would find data that references the testing of such parameters as diesel range organics and gasoline range organics. Other categories are similarly mapped. The batch number is associated with each sample. This is important to evaluate Quality Control (QC) data. Surrogate results samples are provided with each sample. Laboratory control limits are provided for comparison (see below). The reference method is also identified. If a method is denoted with an "M" (e.g. EPA 1234(M)) this means that it has been modified. An explanation of the modification will be found in the Case Narrative. A result is given with appropriate units. If a soil sample is dry-weight corrected then the word "dry" will appear next to the units. If the word "dry" does not appear then the result is "as received."

The Method Reporting Limit (MRL) and Method Detection Limit (MDL) are provided. It is important to understand these terms. The MRL is a level that has been empirically verified to provide reliable quantitation of results. Results that are equal to or greater than this value will show up in bold. They are considered "hits." The MDL is a statistically derived number that indicates an estimated concentration at which an analyte can be detected above the noise level. If a result is less than the MRL but greater than the MDL then it is considered an estimate. Such a result is reported with a "J" flag denoting that it has been detected but that the result is an estimate.

In this specific report format, the majority of the analyses are reported without estimated concentrations less than the MRL. For these analyses, if a result is less than the MRL, the result is given as less than the MRL (e.g. if the MRL = 10 then a less than result would be given as "<10"). However, for the Organochlorine Pesticides in water and MDA List 1 Pesticides in water analyses, if a result is less than the MRL but greater than the MDL, then an estimated result is reported with a "J" flag. If a result for either of these two analyses is less than the MDL, then the result is given as less than the MDL.

The Quality Control (QC) samples are documented in the following section. Here you will find the preparation batches associated with each sample from the results section. The sample preparation method is also defined here. Accuracy is represented here in terms of a percent recovery as compared to a known value. Precision is represented as a relative percent difference between two duplicate sample aliquots. The laboratory control limits are provided as a means to evaluate the quality control data. If the result falls outside the laboratory control limits this simply means that it is outside what is typical for the laboratory and is noted accordingly. This does not mean that the data is invalid. Laboratory control limits are generally tighter than most program limits. This is a very important distinction. How the data is ultimately used determines its validity. Program requirements are defined in the Quality Assurance Project Plan (QAPP) governing the project. If your project manager is aware of your specific program requirements then a note will be made in the case narrative if the data fails to meet any of these requirements.

The last section contains copies of important documents and/or instrument printouts relevant to the report. This includes the chain of custody. It also may include items like chromatograms or spectra.

Please note that this report is paginated and must be reproduced in its entirety.

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904848
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Qualifiers and Abbreviations

qn	The spike recovery is outside of laboratory control limits for the matrix spike (MS) and/or the matrix spike duplicate (MSD).
COC	Chain of Custody
dry	Sample results reported on a dry weight basis
MDL	Method Detection Limit
MRL	Method Reporting Limit
NA	Not Applicable
ND	Analyte NOT DETECTED
NR	Not Reported
%Rec	Percent Recovery
RPD	Relative Percent Difference
VOC	Volatile Organic Compound

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC5-GP1	0904848-01	Water	09/02/09 09:50	09/04/09 11:09
SOC5-Dup 1	0904848-02	Water	09/02/09 12:00	09/04/09 11:09
SOC5-GP28 (9-10)	0904848-03	Soil	09/02/09 17:15	09/04/09 11:09

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Conditions Upon Receipt

Cooler: Cooler 1

Temperature:	10.7 °C	**COC Included:**	Yes	**Custody Seals Used:**	No
Temperature Blank:	Yes	**COC Complete:**	Yes	**Custody Seals Intact:**	NA
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	No
Preservation Confirmed:	No	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

Cooler: Cooler 2

Temperature:	11.0 °C	**COC Included:**	Yes	**Custody Seals Used:**	No
Temperature Blank:	Yes	**COC Complete:**	Yes	**Custody Seals Intact:**	NA
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	No
Preservation Confirmed:	No	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

Cooler: Cooler 3

Temperature:	8.4 °C	**COC Included:**	Yes	**Custody Seals Used:**	No
Temperature Blank:	Yes	**COC Complete:**	Yes	**Custody Seals Intact:**	NA
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	No
Preservation Confirmed:	Yes	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

Cooler: Cooler 4

Temperature:	6.5 °C	**COC Included:**	Yes	**Custody Seals Used:**	No
Temperature Blank:	Yes	**COC Complete:**	Yes	**Custody Seals Intact:**	NA
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	No
Preservation Confirmed:	No	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-GP1

0904848-01 (Water)

9/2/09 9:50

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Total Kjeldahl Nitrogen	<2.0	2.0	0.69	mg/L	B9I0146	9/8/09 15:23	9/11/09 10:36	EPA 351.2	
Nitrate + Nitrite as N	**3.8**	0.10	0.034	mg/L	B9I0178	9/10/09 6:43	9/10/09 10:33	SM4500 NO3F	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.018	0.28	0.018	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:11	EPA 8081A	
4,4'-DDE	<0.018	0.28	0.018	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:11	EPA 8081A	
4,4'-DDT	<0.022	0.28	0.022	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:11	EPA 8081A	
Aldrin	<0.020	0.28	0.020	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:11	EPA 8081A	
alpha-BHC	<0.023	0.28	0.023	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:11	EPA 8081A	
alpha-Chlordane	<0.018	0.28	0.018	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:11	EPA 8081A	
beta-BHC	<0.018	0.28	0.018	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:11	EPA 8081A	
delta-BHC	<0.016	0.28	0.016	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:11	EPA 8081A	
Dieldrin	<0.027	0.28	0.027	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:11	EPA 8081A	
Endosulfan I	<0.024	0.28	0.024	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:11	EPA 8081A	
Endosulfan II	<0.021	0.28	0.021	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:11	EPA 8081A	
Endosulfan Sulfate	<0.022	0.28	0.022	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:11	EPA 8081A	
Endrin	<0.022	0.28	0.022	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:11	EPA 8081A	
Endrin Aldehyde	<0.045	0.28	0.045	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:11	EPA 8081A	
Endrin Ketone	<0.021	0.28	0.021	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:11	EPA 8081A	
gamma-BHC	<0.022	0.28	0.022	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:11	EPA 8081A	
gamma-Chlordane	<0.047	0.28	0.047	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:11	EPA 8081A	
Heptachlor	<0.020	0.28	0.020	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:11	EPA 8081A	
Heptachlor Epoxide	<0.043	0.28	0.043	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:11	EPA 8081A	
Methoxychlor	<0.029	0.28	0.029	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:11	EPA 8081A	
Toxaphene	<1.1	5.6	1.1	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:11	EPA 8081A	
Surr: DBC	*95.5 %*	*Limits: 40-130%*			*B9I0149*	*9/9/09 6:29*	*9/17/09 4:11*	*EPA 8081A*	
Surr: TCMX	*81.9 %*	*Limits: 40-120%*			*B9I0149*	*9/9/09 6:29*	*9/17/09 4:11*	*EPA 8081A*	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-GP1

0904848-01 (Water)

9/2/09 9:50

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.30	0.60	0.30	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:58	EPA 8270C	
Alachlor	<0.22	0.60	0.22	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:58	EPA 8270C	
Atrazine	<0.28	0.60	0.28	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:58	EPA 8270C	
Chlorpyrifos	<0.40	0.60	0.40	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:58	EPA 8270C	
Cyanazine	<0.58	0.60	0.58	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:58	EPA 8270C	
Deisopropylatrazine	<0.31	0.60	0.31	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:58	EPA 8270C	
Desethylatrazine	<0.35	0.60	0.35	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:58	EPA 8270C	
Dimethenamid	<0.28	0.60	0.28	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:58	EPA 8270C	
EPTC	<0.26	0.60	0.26	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:58	EPA 8270C	
Ethalfluralin	<0.56	0.60	0.56	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:58	EPA 8270C	
Fonofos	<0.35	0.60	0.35	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:58	EPA 8270C	
Metolachlor	<0.33	0.60	0.33	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:58	EPA 8270C	
Metribuzin	<0.42	0.60	0.42	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:58	EPA 8270C	
Pendimethalin	<0.30	0.60	0.30	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:58	EPA 8270C	
Phorate	<0.70	1.2	0.70	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:58	EPA 8270C	
Prometon	<0.35	0.60	0.35	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:58	EPA 8270C	
Propachlor	<0.17	0.60	0.17	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:58	EPA 8270C	
Propazine	<0.25	0.60	0.25	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:58	EPA 8270C	
Simazine	<0.38	0.60	0.38	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:58	EPA 8270C	
Terbufos	<0.65	1.2	0.65	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:58	EPA 8270C	
Triallate	<0.40	0.60	0.40	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:58	EPA 8270C	
Trifluralin	<0.25	0.60	0.25	ug/L	B9I0151	9/9/09 6:35	9/11/09 15:58	EPA 8270C	
Surr: Atrazine-d5	*87.3 %*	*Limits: 50-120%*			*B9I0151*	*9/9/09 6:35*	*9/11/09 15:58*	*EPA 8270C*	
Surr: Diazinon-d10	*85.1 %*	*Limits: 50-120%*			*B9I0151*	*9/9/09 6:35*	*9/11/09 15:58*	*EPA 8270C*	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-GP1

0904848-01 (Water)

9/2/09 9:50

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.56	0.56	0.35	ug/L	B9I0107	9/8/09 5:56	9/10/09 14:58	EPA 8270C	
2,4,5-T.P.	<0.56	0.56	0.32	ug/L	B9I0107	9/8/09 5:56	9/10/09 14:58	EPA 8270C	
2,4-D	<0.56	0.56	0.30	ug/L	B9I0107	9/8/09 5:56	9/10/09 14:58	EPA 8270C	
2,4-D.B.	<0.56	0.56	0.17	ug/L	B9I0107	9/8/09 5:56	9/10/09 14:58	EPA 8270C	
Bentazon	<0.56	0.56	0.25	ug/L	B9I0107	9/8/09 5:56	9/10/09 14:58	EPA 8270C	
Dicamba	<0.56	0.56	0.43	ug/L	B9I0107	9/8/09 5:56	9/10/09 14:58	EPA 8270C	
Dinoseb	<1.1	1.1	0.39	ug/L	B9I0107	9/8/09 5:56	9/10/09 14:58	EPA 8270C	
M.C.P.A.	<0.34	0.34	0.33	ug/L	B9I0107	9/8/09 5:56	9/10/09 14:58	EPA 8270C	qn
Pentachlorophenol	<0.56	0.56	0.44	ug/L	B9I0107	9/8/09 5:56	9/10/09 14:58	EPA 8270C	qn
Picloram	<0.56	0.56	0.28	ug/L	B9I0107	9/8/09 5:56	9/10/09 14:58	EPA 8270C	
Triclopyr	<0.56	0.56	0.46	ug/L	B9I0107	9/8/09 5:56	9/10/09 14:58	EPA 8270C	
Surr: D.C.A.A.	*76.4 %*	*Limits: 65-130%*			*B9I0107*	*9/8/09 5:56*	*9/10/09 14:58*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904848
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-Dup 1

0904848-02 (Water)

9/2/09 12:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Total Kjeldahl Nitrogen	<2.0	2.0	0.69	mg/L	B9I0146	9/8/09 15:23	9/11/09 10:36	EPA 351.2	
Nitrate + Nitrite as N	**3.9**	0.10	0.034	mg/L	B9I0178	9/10/09 6:43	9/10/09 10:33	SM4500 NO3F	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.024	0.38	0.024	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:37	EPA 8081A	
4,4'-DDE	<0.024	0.38	0.024	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:37	EPA 8081A	
4,4'-DDT	<0.030	0.38	0.030	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:37	EPA 8081A	
Aldrin	<0.027	0.38	0.027	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:37	EPA 8081A	
alpha-BHC	<0.032	0.38	0.032	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:37	EPA 8081A	
alpha-Chlordane	<0.024	0.38	0.024	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:37	EPA 8081A	
beta-BHC	<0.024	0.38	0.024	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:37	EPA 8081A	
delta-BHC	<0.021	0.38	0.021	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:37	EPA 8081A	
Dieldrin	<0.036	0.38	0.036	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:37	EPA 8081A	
Endosulfan I	<0.032	0.38	0.032	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:37	EPA 8081A	
Endosulfan II	<0.029	0.38	0.029	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:37	EPA 8081A	
Endosulfan Sulfate	<0.029	0.38	0.029	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:37	EPA 8081A	
Endrin	<0.030	0.38	0.030	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:37	EPA 8081A	
Endrin Aldehyde	<0.061	0.38	0.061	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:37	EPA 8081A	
Endrin Ketone	<0.028	0.38	0.028	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:37	EPA 8081A	
gamma-BHC	<0.030	0.38	0.030	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:37	EPA 8081A	
gamma-Chlordane	<0.064	0.38	0.064	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:37	EPA 8081A	
Heptachlor	<0.027	0.38	0.027	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:37	EPA 8081A	
Heptachlor Epoxide	<0.058	0.38	0.058	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:37	EPA 8081A	
Methoxychlor	<0.040	0.38	0.040	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:37	EPA 8081A	
Toxaphene	<1.5	7.6	1.5	ug/L	B9I0149	9/9/09 6:29	9/17/09 4:37	EPA 8081A	
Surr: DBC	*93.2 %*	*Limits: 40-130%*			*B9I0149*	*9/9/09 6:29*	*9/17/09 4:37*	*EPA 8081A*	
Surr: TCMX	*83.9 %*	*Limits: 40-120%*			*B9I0149*	*9/9/09 6:29*	*9/17/09 4:37*	*EPA 8081A*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904848
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-Dup 1

0904848-02 (Water)

9/2/09 12:00

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.29	0.57	0.29	ug/L	B9I0151	9/9/09 6:35	9/11/09 16:24	EPA 8270C	
Alachlor	<0.22	0.57	0.22	ug/L	B9I0151	9/9/09 6:35	9/11/09 16:24	EPA 8270C	
Atrazine	<0.27	0.57	0.27	ug/L	B9I0151	9/9/09 6:35	9/11/09 16:24	EPA 8270C	
Chlorpyrifos	<0.39	0.57	0.39	ug/L	B9I0151	9/9/09 6:35	9/11/09 16:24	EPA 8270C	
Cyanazine	<0.56	0.57	0.56	ug/L	B9I0151	9/9/09 6:35	9/11/09 16:24	EPA 8270C	
Deisopropylatrazine	<0.30	0.57	0.30	ug/L	B9I0151	9/9/09 6:35	9/11/09 16:24	EPA 8270C	
Desethylatrazine	<0.33	0.57	0.33	ug/L	B9I0151	9/9/09 6:35	9/11/09 16:24	EPA 8270C	
Dimethenamid	<0.27	0.57	0.27	ug/L	B9I0151	9/9/09 6:35	9/11/09 16:24	EPA 8270C	
EPTC	<0.25	0.57	0.25	ug/L	B9I0151	9/9/09 6:35	9/11/09 16:24	EPA 8270C	
Ethalfluralin	<0.54	0.57	0.54	ug/L	B9I0151	9/9/09 6:35	9/11/09 16:24	EPA 8270C	
Fonofos	<0.34	0.57	0.34	ug/L	B9I0151	9/9/09 6:35	9/11/09 16:24	EPA 8270C	
Metolachlor	<0.32	0.57	0.32	ug/L	B9I0151	9/9/09 6:35	9/11/09 16:24	EPA 8270C	
Metribuzin	<0.40	0.57	0.40	ug/L	B9I0151	9/9/09 6:35	9/11/09 16:24	EPA 8270C	
Pendimethalin	<0.29	0.57	0.29	ug/L	B9I0151	9/9/09 6:35	9/11/09 16:24	EPA 8270C	
Phorate	<0.67	1.1	0.67	ug/L	B9I0151	9/9/09 6:35	9/11/09 16:24	EPA 8270C	
Prometon	<0.34	0.57	0.34	ug/L	B9I0151	9/9/09 6:35	9/11/09 16:24	EPA 8270C	
Propachlor	<0.16	0.57	0.16	ug/L	B9I0151	9/9/09 6:35	9/11/09 16:24	EPA 8270C	
Propazine	<0.24	0.57	0.24	ug/L	B9I0151	9/9/09 6:35	9/11/09 16:24	EPA 8270C	
Simazine	<0.36	0.57	0.36	ug/L	B9I0151	9/9/09 6:35	9/11/09 16:24	EPA 8270C	
Terbufos	<0.62	1.1	0.62	ug/L	B9I0151	9/9/09 6:35	9/11/09 16:24	EPA 8270C	
Triallate	<0.39	0.57	0.39	ug/L	B9I0151	9/9/09 6:35	9/11/09 16:24	EPA 8270C	
Trifluralin	<0.25	0.57	0.25	ug/L	B9I0151	9/9/09 6:35	9/11/09 16:24	EPA 8270C	
Surr: Atrazine-d5	*80.1 %*	*Limits: 50-120%*			*B9I0151*	*9/9/09 6:35*	*9/11/09 16:24*	*EPA 8270C*	
Surr: Diazinon-d10	*79.4 %*	*Limits: 50-120%*			*B9I0151*	*9/9/09 6:35*	*9/11/09 16:24*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904848
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-Dup 1

0904848-02 (Water)

9/2/09 12:00

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.56	0.56	0.35	ug/L	B9I0107	9/8/09 5:56	9/10/09 15:24	EPA 8270C	
2,4,5-T.P.	<0.56	0.56	0.32	ug/L	B9I0107	9/8/09 5:56	9/10/09 15:24	EPA 8270C	
2,4-D	<0.56	0.56	0.29	ug/L	B9I0107	9/8/09 5:56	9/10/09 15:24	EPA 8270C	
2,4-D.B.	<0.56	0.56	0.17	ug/L	B9I0107	9/8/09 5:56	9/10/09 15:24	EPA 8270C	
Bentazon	<0.56	0.56	0.25	ug/L	B9I0107	9/8/09 5:56	9/10/09 15:24	EPA 8270C	
Dicamba	<0.56	0.56	0.42	ug/L	B9I0107	9/8/09 5:56	9/10/09 15:24	EPA 8270C	
Dinoseb	<1.1	1.1	0.38	ug/L	B9I0107	9/8/09 5:56	9/10/09 15:24	EPA 8270C	
M.C.P.A.	<0.33	0.33	0.32	ug/L	B9I0107	9/8/09 5:56	9/10/09 15:24	EPA 8270C	qn
Pentachlorophenol	<0.56	0.56	0.44	ug/L	B9I0107	9/8/09 5:56	9/10/09 15:24	EPA 8270C	qn
Picloram	<0.56	0.56	0.28	ug/L	B9I0107	9/8/09 5:56	9/10/09 15:24	EPA 8270C	
Triclopyr	<0.56	0.56	0.45	ug/L	B9I0107	9/8/09 5:56	9/10/09 15:24	EPA 8270C	
Surr: D.C.A.A.	*78.2 %*	*Limits: 65-130%*			*B9I0107*	*9/8/09 5:56*	*9/10/09 15:24*	*EPA 8270C*	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-GP28 (9-10)

0904848-03 (Soil)

9/2/09 17:15

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**97**	0.050	0.010	% Wt	B9I0167	9/9/09 13:04	9/9/09 13:04	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.023	0.023	0.0014	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:46	EPA 8081A	
4,4'-DDE	<0.023	0.023	0.0024	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:46	EPA 8081A	
4,4'-DDT	<0.023	0.023	0.0021	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:46	EPA 8081A	
Aldrin	<0.023	0.023	0.0030	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:46	EPA 8081A	
alpha-BHC	<0.023	0.023	0.0021	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:46	EPA 8081A	
alpha-Chlordane	<0.023	0.023	0.0019	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:46	EPA 8081A	
beta-BHC	<0.023	0.023	0.0021	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:46	EPA 8081A	
delta-BHC	<0.023	0.023	0.0017	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:46	EPA 8081A	
Dieldrin	<0.023	0.023	0.0021	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:46	EPA 8081A	
Endosulfan I	<0.023	0.023	0.0026	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:46	EPA 8081A	
Endosulfan II	<0.023	0.023	0.0020	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:46	EPA 8081A	
Endosulfan Sulfate	<0.023	0.023	0.0021	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:46	EPA 8081A	
Endrin	<0.023	0.023	0.0026	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:46	EPA 8081A	
Endrin Aldehyde	<0.023	0.023	0.0090	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:46	EPA 8081A	
Endrin Ketone	<0.023	0.023	0.0029	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:46	EPA 8081A	
gamma-BHC	<0.023	0.023	0.0023	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:46	EPA 8081A	
gamma-Chlordane	<0.023	0.023	0.0016	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:46	EPA 8081A	
Heptachlor	<0.023	0.023	0.0050	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:46	EPA 8081A	
Heptachlor Epoxide	<0.023	0.023	0.0040	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:46	EPA 8081A	
Methoxychlor	<0.023	0.023	0.0020	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:12	EPA 8081A	
Toxaphene	<0.47	0.47	0.090	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 5:46	EPA 8081A	
Surr: DBC	*84.1 %*	*Limits: 40-160%*			*B9I0141*	*9/8/09 14:58*	*9/10/09 6:12*	*EPA 8081A*	
Surr: TCMX	*71.4 %*	*Limits: 60-130%*			*B9I0141*	*9/8/09 14:58*	*9/10/09 5:46*	*EPA 8081A*	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-GP28 (9-10)

0904848-03 (Soil)

9/2/09 17:15

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.041	0.041	0.010	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:10	EPA 8270C	
Alachlor	<0.041	0.041	0.0072	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:10	EPA 8270C	
Atrazine	<0.041	0.041	0.010	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:10	EPA 8270C	
Chlorpyrifos	<0.041	0.041	0.0072	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:10	EPA 8270C	
Cyanazine	<0.041	0.041	0.0082	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:10	EPA 8270C	
Deisopropylatrazine	<0.041	0.041	0.0082	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:10	EPA 8270C	
Desethylatrazine	<0.041	0.041	0.011	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:10	EPA 8270C	
Dimethenamid	<0.041	0.041	0.0062	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:10	EPA 8270C	
EPTC	<0.041	0.041	0.0062	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:10	EPA 8270C	
Ethalfluralin	<0.041	0.041	0.014	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:10	EPA 8270C	
Fonofos	<0.041	0.041	0.0041	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:10	EPA 8270C	
Metolachlor	<0.041	0.041	0.0031	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:10	EPA 8270C	
Metribuzin	<0.041	0.041	0.0092	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:10	EPA 8270C	
Pendimethalin	<0.041	0.041	0.016	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:10	EPA 8270C	
Phorate	<0.041	0.041	0.0062	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:10	EPA 8270C	
Prometon	<0.041	0.041	0.0062	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:10	EPA 8270C	
Propachlor	<0.041	0.041	0.0092	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:10	EPA 8270C	
Propazine	<0.041	0.041	0.0072	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:10	EPA 8270C	
Simazine	<0.041	0.041	0.0092	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:10	EPA 8270C	
Terbufos	<0.041	0.041	0.0092	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:10	EPA 8270C	
Triallate	<0.041	0.041	0.0051	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:10	EPA 8270C	
Trifluralin	<0.041	0.041	0.014	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:10	EPA 8270C	
Surr: Atrazine-d5	*83.9 %*	*Limits: 50-125%*			*B9I0227*	*9/13/09 16:39*	*9/15/09 0:10*	*EPA 8270C*	
Surr: Diazinon-d10	*91.2 %*	*Limits: 35-120%*			*B9I0227*	*9/13/09 16:39*	*9/15/09 0:10*	*EPA 8270C*	

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SOC5-GP28 (9-10)

0904848-03 (Soil)

9/2/09 17:15

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.051	0.051	0.0092	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 21:16	EPA 8270C	
2,4,5-T.P.	<0.051	0.051	0.0072	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 21:16	EPA 8270C	
2,4-D	<0.051	0.051	0.012	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 21:16	EPA 8270C	
2,4-D.B.	<0.051	0.051	0.011	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 21:16	EPA 8270C	
Bentazon	<0.051	0.051	0.0092	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 21:16	EPA 8270C	
Dicamba	<0.051	0.051	0.0082	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 21:16	EPA 8270C	
Dinoseb	<0.051	0.051	0.0051	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 21:16	EPA 8270C	
M.C.P.A.	<0.051	0.051	0.014	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 21:16	EPA 8270C	
Pentachlorophenol	<0.051	0.051	0.0072	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 21:16	EPA 8270C	
Picloram	<0.051	0.051	0.011	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 21:16	EPA 8270C	qn
Triclopyr	<0.051	0.051	0.0062	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 21:16	EPA 8270C	
Surr: D.C.A.A.	*66.6 %*	*Limits: 50-125%*			*B9I0256*	*9/14/09 9:00*	*9/17/09 21:16*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904848
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Classical Chemistry Parameters - Quality Control

Batch B9I0146 - EPA 351.2

Method Blank (B9I0146-BLK1)

Prepared: 09/08/09 Analyzed: 09/11/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	<0.50	0.50	0.17	mg/L	NA	NA	NA	NA	NA	NA	

Laboratory Control Sample (B9I0146-BS1)

Prepared: 09/08/09 Analyzed: 09/11/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	2.54	0.50	0.17	mg/L	2.50	NA	102	90-110	NA	NA	

Laboratory Control Sample Duplicate (B9I0146-BSD1)

Prepared: 09/08/09 Analyzed: 09/11/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	2.66	0.50	0.17	mg/L	2.50	NA	106	90-110	4.46	20	

Matrix Spike (B9I0146-MS1)

Source: 0904778-01 Prepared: 09/08/09 Analyzed: 09/11/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	4.23	0.50	0.17	mg/L	2.50	1.99	89.4	90-110	NA	NA	

Matrix Spike Duplicate (B9I0146-MSD1)

Source: 0904778-01 Prepared: 09/08/09 Analyzed: 09/11/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	4.08	0.50	0.17	mg/L	2.50	1.99	83.4	90-110	3.59	20	

Batch B9I0167 - % Solids

Method Blank (B9I0167-BLK1)

Prepared & Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	<0.050	0.050	0.010	% Wt	NA	NA	NA	NA	NA	NA	

Duplicate (B9I0167-DUP1)

Source: 0904827-02 Prepared & Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	86.7	0.050	0.010	% Wt	NA	85.2	NA	NA	1.75	20	

Standard Reference Material (B9I0167-SRM1)

Prepared & Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	89.1			% Wt	91.3	NA	97.5	90-110	NA	NA	

Batch B9I0178 - NO PREP

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Classical Chemistry Parameters - Quality Control

Batch B9I0178 - NO PREP

Method Blank (B9I0178-BLK1) Prepared & Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	<0.020	0.020	0.0069	mg/L	NA	NA	NA	NA	NA	NA	

Laboratory Control Sample (B9I0178-BS1) Prepared & Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	0.486	0.020	0.0069	mg/L	0.500	NA	97.1	80-120	NA	NA	

Laboratory Control Sample Duplicate (B9I0178-BSD1) Prepared & Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	0.539	0.020	0.0069	mg/L	0.500	NA	108	80-120	10.4	20	

Matrix Spike (B9I0178-MS1) **Source: 0904730-03** Prepared & Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	0.568	0.020	0.0069	mg/L	0.500	ND	114	75-125	NA	NA	

Matrix Spike Duplicate (B9I0178-MSD1) **Source: 0904730-03** Prepared & Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	0.564	0.020	0.0069	mg/L	0.500	ND	113	75-125	0.866	20	

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0141 - EPA 3545

Method Blank (B9I0141-BLK1)

Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	<0.025	0.025	0.0015	mg/kg	NA	NA	NA	NA	NA	NA	
4,4'-DDE	<0.025	0.025	0.0026	mg/kg	NA	NA	NA	NA	NA	NA	
4,4'-DDT	<0.025	0.025	0.0023	mg/kg	NA	NA	NA	NA	NA	NA	
Aldrin	<0.025	0.025	0.0032	mg/kg	NA	NA	NA	NA	NA	NA	
alpha-BHC	<0.025	0.025	0.0023	mg/kg	NA	NA	NA	NA	NA	NA	
alpha-Chlordane	<0.025	0.025	0.0020	mg/kg	NA	NA	NA	NA	NA	NA	
beta-BHC	<0.025	0.025	0.0023	mg/kg	NA	NA	NA	NA	NA	NA	
delta-BHC	<0.025	0.025	0.0018	mg/kg	NA	NA	NA	NA	NA	NA	
Dieldrin	<0.025	0.025	0.0022	mg/kg	NA	NA	NA	NA	NA	NA	
Endosulfan I	<0.025	0.025	0.0028	mg/kg	NA	NA	NA	NA	NA	NA	
Endosulfan II	<0.025	0.025	0.0021	mg/kg	NA	NA	NA	NA	NA	NA	
Endosulfan Sulfate	<0.025	0.025	0.0023	mg/kg	NA	NA	NA	NA	NA	NA	
Endrin	<0.025	0.025	0.0028	mg/kg	NA	NA	NA	NA	NA	NA	
Endrin Aldehyde	<0.025	0.025	0.0096	mg/kg	NA	NA	NA	NA	NA	NA	
Endrin Ketone	<0.025	0.025	0.0031	mg/kg	NA	NA	NA	NA	NA	NA	
gamma-BHC	<0.025	0.025	0.0025	mg/kg	NA	NA	NA	NA	NA	NA	
gamma-Chlordane	<0.025	0.025	0.0017	mg/kg	NA	NA	NA	NA	NA	NA	
Heptachlor	<0.025	0.025	0.0054	mg/kg	NA	NA	NA	NA	NA	NA	
Heptachlor Epoxide	<0.025	0.025	0.0043	mg/kg	NA	NA	NA	NA	NA	NA	
Methoxychlor	<0.025	0.025	0.0021	mg/kg	NA	NA	NA	NA	NA	NA	
Toxaphene	<0.50	0.50	0.096	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: DBC	*0.206*			mg/kg	*0.248*	*NA*	*83.3*	*40-160*			
Surrogate: TCMX	*0.200*			mg/kg	*0.248*	*NA*	*80.8*	*60-130*			

Laboratory Control Sample (B9I0141-BS1)

Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.213	0.024	0.0014	mg/kg	0.237	NA	89.8	70-130	NA	NA	
4,4'-DDE	0.221	0.024	0.0025	mg/kg	0.237	NA	93.1	70-130	NA	NA	
4,4'-DDT	0.269	0.024	0.0022	mg/kg	0.237	NA	113	70-130	NA	NA	
Aldrin	0.226	0.024	0.0030	mg/kg	0.237	NA	95.3	70-130	NA	NA	
alpha-BHC	0.231	0.024	0.0022	mg/kg	0.237	NA	97.7	70-130	NA	NA	
alpha-Chlordane	0.225	0.024	0.0019	mg/kg	0.237	NA	94.9	70-130	NA	NA	
beta-BHC	0.234	0.024	0.0022	mg/kg	0.237	NA	98.7	70-130	NA	NA	
delta-BHC	0.229	0.024	0.0017	mg/kg	0.237	NA	96.4	70-130	NA	NA	
Dieldrin	0.220	0.024	0.0021	mg/kg	0.237	NA	92.8	70-130	NA	NA	
Endosulfan I	0.224	0.024	0.0027	mg/kg	0.237	NA	94.7	70-130	NA	NA	
Endosulfan II	0.207	0.024	0.0020	mg/kg	0.237	NA	87.5	70-130	NA	NA	
Endosulfan Sulfate	0.220	0.024	0.0022	mg/kg	0.237	NA	93.0	70-130	NA	NA	
Endrin	0.212	0.024	0.0027	mg/kg	0.237	NA	89.3	70-130	NA	NA	
Endrin Aldehyde	0.232	0.024	0.0091	mg/kg	0.237	NA	97.7	70-130	NA	NA	
Endrin Ketone	0.262	0.024	0.0029	mg/kg	0.237	NA	111	70-130	NA	NA	
gamma-BHC	0.236	0.024	0.0024	mg/kg	0.237	NA	99.6	70-130	NA	NA	

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0141 - EPA 3545

Laboratory Control Sample (B9I0141-BS1)

Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
gamma-Chlordane	0.229	0.024	0.0016	mg/kg	0.237	NA	96.5	70-130	NA	NA	
Heptachlor	0.247	0.024	0.0051	mg/kg	0.237	NA	104	70-130	NA	NA	
Heptachlor Epoxide	0.227	0.024	0.0041	mg/kg	0.237	NA	95.9	70-130	NA	NA	
Methoxychlor	0.259	0.024	0.0020	mg/kg	0.237	NA	109	70-130	NA	NA	
Surrogate: DBC	*0.219*			mg/kg	*0.237*	*NA*	*92.5*	*40-160*			
Surrogate: TCMX	*0.213*			mg/kg	*0.237*	*NA*	*90.0*	*60-130*			

Laboratory Control Sample Duplicate (B9I0141-BSD1)

Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.240	0.024	0.0015	mg/kg	0.244	NA	98.6	70-130	12.1	25	
4,4'-DDE	0.245	0.024	0.0025	mg/kg	0.244	NA	100	70-130	10.3	25	
4,4'-DDT	0.276	0.024	0.0022	mg/kg	0.244	NA	113	70-130	2.78	25	
Aldrin	0.251	0.024	0.0031	mg/kg	0.244	NA	103	70-130	10.6	25	
alpha-BHC	0.258	0.024	0.0022	mg/kg	0.244	NA	106	70-130	10.8	25	
alpha-Chlordane	0.248	0.024	0.0019	mg/kg	0.244	NA	102	70-130	9.89	25	
beta-BHC	0.261	0.024	0.0022	mg/kg	0.244	NA	107	70-130	11.2	25	
delta-BHC	0.257	0.024	0.0018	mg/kg	0.244	NA	106	70-130	11.8	25	
Dieldrin	0.248	0.024	0.0021	mg/kg	0.244	NA	102	70-130	11.8	25	
Endosulfan I	0.245	0.024	0.0027	mg/kg	0.244	NA	101	70-130	8.95	25	
Endosulfan II	0.231	0.024	0.0020	mg/kg	0.244	NA	95.0	70-130	11.0	25	
Endosulfan Sulfate	0.236	0.024	0.0022	mg/kg	0.244	NA	96.8	70-130	6.80	25	
Endrin	0.236	0.024	0.0027	mg/kg	0.244	NA	97.0	70-130	11.0	25	
Endrin Aldehyde	0.249	0.024	0.0094	mg/kg	0.244	NA	102	70-130	7.21	25	
Endrin Ketone	0.254	0.024	0.0030	mg/kg	0.244	NA	104	70-130	3.01	25	
gamma-BHC	0.263	0.024	0.0024	mg/kg	0.244	NA	108	70-130	10.8	25	
gamma-Chlordane	0.254	0.024	0.0017	mg/kg	0.244	NA	104	70-130	10.3	25	
Heptachlor	0.272	0.024	0.0053	mg/kg	0.244	NA	112	70-130	9.61	25	
Heptachlor Epoxide	0.253	0.024	0.0042	mg/kg	0.244	NA	104	70-130	10.6	25	
Methoxychlor	0.265	0.024	0.0020	mg/kg	0.244	NA	109	70-130	2.12	25	
Surrogate: DBC	*0.228*			mg/kg	*0.244*	*NA*	*93.4*	*40-160*			
Surrogate: TCMX	*0.233*			mg/kg	*0.244*	*NA*	*95.7*	*60-130*			

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0141 - EPA 3545

Matrix Spike (B9I0141-MS1)

Source: 0904744-01 Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.211	0.030	0.0018	mg/kg dry	0.295	ND	71.3	50-130	NA	NA	
4,4'-DDE	0.215	0.030	0.0031	mg/kg dry	0.295	ND	72.9	50-130	NA	NA	
4,4'-DDT	0.250	0.030	0.0027	mg/kg dry	0.295	ND	84.7	50-130	NA	NA	
Aldrin	0.223	0.030	0.0038	mg/kg dry	0.295	ND	75.5	50-130	NA	NA	
alpha-BHC	0.236	0.030	0.0027	mg/kg dry	0.295	ND	79.9	50-130	NA	NA	
alpha-Chlordane	0.221	0.030	0.0024	mg/kg dry	0.295	ND	75.0	50-130	NA	NA	
beta-BHC	0.238	0.030	0.0027	mg/kg dry	0.295	ND	80.5	50-130	NA	NA	
delta-BHC	0.230	0.030	0.0021	mg/kg dry	0.295	ND	77.7	50-130	NA	NA	
Dieldrin	0.205	0.030	0.0026	mg/kg dry	0.295	ND	69.5	50-130	NA	NA	
Endosulfan I	0.223	0.030	0.0033	mg/kg dry	0.295	ND	75.5	50-130	NA	NA	
Endosulfan II	0.200	0.030	0.0025	mg/kg dry	0.295	ND	67.7	50-130	NA	NA	
Endosulfan Sulfate	0.220	0.030	0.0027	mg/kg dry	0.295	ND	74.7	50-130	NA	NA	
Endrin	0.207	0.030	0.0033	mg/kg dry	0.295	ND	70.1	50-130	NA	NA	
Endrin Aldehyde	0.178	0.030	0.011	mg/kg dry	0.295	ND	60.4	50-130	NA	NA	
Endrin Ketone	0.292	0.030	0.0037	mg/kg dry	0.295	ND	98.9	50-130	NA	NA	
gamma-BHC	0.240	0.030	0.0030	mg/kg dry	0.295	ND	81.2	50-130	NA	NA	
gamma-Chlordane	0.225	0.030	0.0020	mg/kg dry	0.295	ND	76.0	50-130	NA	NA	
Heptachlor	0.238	0.030	0.0064	mg/kg dry	0.295	ND	80.6	50-130	NA	NA	
Heptachlor Epoxide	0.227	0.030	0.0051	mg/kg dry	0.295	ND	76.8	50-130	NA	NA	
Methoxychlor	0.249	0.030	0.0025	mg/kg dry	0.295	ND	84.2	50-130	NA	NA	
Surrogate: DBC	*0.226*			mg/kg dry	*0.295*	*NA*	*76.6*	*40-160*			
Surrogate: TCMX	*0.214*			mg/kg dry	*0.295*	*NA*	*72.5*	*60-130*			

Matrix Spike Duplicate (B9I0141-MSD1)

Source: 0904744-01 Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.216	0.028	0.0017	mg/kg dry	0.278	ND	77.8	50-130	2.64	25	
4,4'-DDE	0.216	0.028	0.0029	mg/kg dry	0.278	ND	77.9	50-130	0.544	25	
4,4'-DDT	0.261	0.028	0.0026	mg/kg dry	0.278	ND	93.9	50-130	4.28	25	
Aldrin	0.232	0.028	0.0036	mg/kg dry	0.278	ND	83.5	50-130	4.03	25	
alpha-BHC	0.243	0.028	0.0026	mg/kg dry	0.278	ND	87.3	50-130	2.82	25	
alpha-Chlordane	0.221	0.028	0.0022	mg/kg dry	0.278	ND	79.6	50-130	0.114	25	
beta-BHC	0.244	0.028	0.0026	mg/kg dry	0.278	ND	87.9	50-130	2.74	25	
delta-BHC	0.232	0.028	0.0020	mg/kg dry	0.278	ND	83.6	50-130	1.23	25	
Dieldrin	0.217	0.028	0.0024	mg/kg dry	0.278	ND	78.0	50-130	5.51	25	
Endosulfan I	0.226	0.028	0.0031	mg/kg dry	0.278	ND	81.5	50-130	1.52	25	
Endosulfan II	0.202	0.028	0.0023	mg/kg dry	0.278	ND	72.8	50-130	1.24	25	
Endosulfan Sulfate	0.222	0.028	0.0026	mg/kg dry	0.278	ND	80.0	50-130	0.804	25	
Endrin	0.211	0.028	0.0031	mg/kg dry	0.278	ND	75.9	50-130	1.80	25	
Endrin Aldehyde	0.158	0.028	0.011	mg/kg dry	0.278	ND	56.9	50-130	12.0	25	
Endrin Ketone	0.279	0.028	0.0034	mg/kg dry	0.278	ND	100	50-130	4.75	25	
gamma-BHC	0.248	0.028	0.0028	mg/kg dry	0.278	ND	89.1	50-130	3.21	25	
gamma-Chlordane	0.230	0.028	0.0019	mg/kg dry	0.278	ND	82.7	50-130	2.27	25	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0141 - EPA 3545

Matrix Spike Duplicate (B9I0141-MSD1) **Source: 0904744-01** Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Heptachlor	0.249	0.028	0.0060	mg/kg dry	0.278	ND	89.8	50-130	4.68	25	
Heptachlor Epoxide	0.232	0.028	0.0048	mg/kg dry	0.278	ND	83.4	50-130	2.15	25	
Methoxychlor	0.259	0.028	0.0023	mg/kg dry	0.278	ND	93.1	50-130	3.96	25	
Surrogate: DBC	*0.224*			mg/kg dry	*0.278*	*NA*	*80.5*	*40-160*			
Surrogate: TCMX	*0.217*			mg/kg dry	*0.278*	*NA*	*78.0*	*60-130*			

Batch B9I0149 - EPA 3510C

Method Blank (B9I0149-BLK1) Prepared: 09/09/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
4,4'-DDE	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
4,4'-DDT	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
Aldrin	<0.018	0.25	0.018	ug/L	NA	NA	NA	NA	NA	NA	
alpha-BHC	<0.021	0.25	0.021	ug/L	NA	NA	NA	NA	NA	NA	
alpha-Chlordane	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
beta-BHC	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
delta-BHC	<0.014	0.25	0.014	ug/L	NA	NA	NA	NA	NA	NA	
Dieldrin	<0.024	0.25	0.024	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan I	<0.021	0.25	0.021	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan II	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan Sulfate	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
Endrin	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
Endrin Aldehyde	<0.040	0.25	0.040	ug/L	NA	NA	NA	NA	NA	NA	
Endrin Ketone	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
gamma-BHC	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
gamma-Chlordane	<0.042	0.25	0.042	ug/L	NA	NA	NA	NA	NA	NA	
Heptachlor	<0.018	0.25	0.018	ug/L	NA	NA	NA	NA	NA	NA	
Heptachlor Epoxide	<0.038	0.25	0.038	ug/L	NA	NA	NA	NA	NA	NA	
Methoxychlor	<0.026	0.25	0.026	ug/L	NA	NA	NA	NA	NA	NA	
Toxaphene	<1.0	5.0	1.0	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: DBC	*2.18*			ug/L	*2.50*	*NA*	*87.1*	*40-130*			
Surrogate: TCMX	*1.49*			ug/L	*2.50*	*NA*	*59.7*	*40-120*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904848
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0149 - EPA 3510C

Laboratory Control Sample (B9I0149-BS1)

Prepared: 09/09/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.35	0.25	0.016	ug/L	2.50	NA	94.0	80-120	NA	NA	
4,4'-DDE	2.18	0.25	0.016	ug/L	2.50	NA	87.0	80-120	NA	NA	
4,4'-DDT	2.19	0.25	0.020	ug/L	2.50	NA	87.7	80-120	NA	NA	
Aldrin	1.71	0.25	0.018	ug/L	2.50	NA	68.5	60-110	NA	NA	
alpha-BHC	2.19	0.25	0.021	ug/L	2.50	NA	87.6	70-120	NA	NA	
alpha-Chlordane	2.25	0.25	0.016	ug/L	2.50	NA	90.1	80-120	NA	NA	
beta-BHC	2.34	0.25	0.016	ug/L	2.50	NA	93.5	80-120	NA	NA	
delta-BHC	2.41	0.25	0.014	ug/L	2.50	NA	96.3	80-120	NA	NA	
Dieldrin	2.30	0.25	0.024	ug/L	2.50	NA	92.1	80-120	NA	NA	
Endosulfan I	2.29	0.25	0.021	ug/L	2.50	NA	91.5	80-120	NA	NA	
Endosulfan II	2.36	0.25	0.019	ug/L	2.50	NA	94.3	80-120	NA	NA	
Endosulfan Sulfate	2.36	0.25	0.019	ug/L	2.50	NA	94.3	80-120	NA	NA	
Endrin	2.23	0.25	0.020	ug/L	2.50	NA	89.1	80-120	NA	NA	
Endrin Aldehyde	2.38	0.25	0.040	ug/L	2.50	NA	95.0	80-120	NA	NA	
Endrin Ketone	2.38	0.25	0.019	ug/L	2.50	NA	95.2	80-120	NA	NA	
gamma-BHC	2.28	0.25	0.020	ug/L	2.50	NA	91.4	80-120	NA	NA	
gamma-Chlordane	2.24	0.25	0.042	ug/L	2.50	NA	89.7	80-120	NA	NA	
Heptachlor	1.88	0.25	0.018	ug/L	2.50	NA	75.1	60-110	NA	NA	
Heptachlor Epoxide	2.27	0.25	0.038	ug/L	2.50	NA	91.0	80-120	NA	NA	
Methoxychlor	2.15	0.25	0.026	ug/L	2.50	NA	85.9	80-120	NA	NA	
Surrogate: DBC	*2.11*			ug/L	*2.50*	*NA*	*84.5*	*40-130*			
Surrogate: TCMX	*1.59*			ug/L	*2.50*	*NA*	*63.5*	*40-120*			

Laboratory Control Sample Duplicate (B9I0149-BSD1)

Prepared: 09/09/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.40	0.25	0.016	ug/L	2.50	NA	95.9	80-120	2.00	25	
4,4'-DDE	2.22	0.25	0.016	ug/L	2.50	NA	88.9	80-120	2.08	25	
4,4'-DDT	2.20	0.25	0.020	ug/L	2.50	NA	88.2	80-120	0.512	25	
Aldrin	1.73	0.25	0.018	ug/L	2.50	NA	69.2	60-110	0.968	25	
alpha-BHC	2.17	0.25	0.021	ug/L	2.50	NA	86.7	70-120	1.04	25	
alpha-Chlordane	2.30	0.25	0.016	ug/L	2.50	NA	91.9	80-120	2.00	25	
beta-BHC	2.51	0.25	0.016	ug/L	2.50	NA	100	80-120	7.13	25	
delta-BHC	2.56	0.25	0.014	ug/L	2.50	NA	103	80-120	6.29	25	
Dieldrin	2.40	0.25	0.024	ug/L	2.50	NA	96.0	80-120	4.11	25	
Endosulfan I	2.37	0.25	0.021	ug/L	2.50	NA	94.9	80-120	3.57	25	
Endosulfan II	2.36	0.25	0.019	ug/L	2.50	NA	94.6	80-120	0.265	25	
Endosulfan Sulfate	2.39	0.25	0.019	ug/L	2.50	NA	95.5	80-120	1.24	25	
Endrin	2.30	0.25	0.020	ug/L	2.50	NA	92.0	80-120	3.18	25	
Endrin Aldehyde	2.48	0.25	0.040	ug/L	2.50	NA	99.4	80-120	4.46	25	
Endrin Ketone	2.52	0.25	0.019	ug/L	2.50	NA	101	80-120	5.85	25	
gamma-BHC	2.35	0.25	0.020	ug/L	2.50	NA	93.9	80-120	2.75	25	
gamma-Chlordane	2.33	0.25	0.042	ug/L	2.50	NA	93.1	80-120	3.72	25	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0149 - EPA 3510C

Laboratory Control Sample Duplicate (B9I0149-BSD1)

Prepared: 09/09/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Heptachlor	1.93	0.25	0.018	ug/L	2.50	NA	77.0	60-110	2.61	25	
Heptachlor Epoxide	2.38	0.25	0.038	ug/L	2.50	NA	95.2	80-120	4.52	25	
Methoxychlor	2.23	0.25	0.026	ug/L	2.50	NA	89.3	80-120	3.95	25	
Surrogate: DBC	*2.18*			ug/L	*2.50*	*NA*	*87.3*	*40-130*			
Surrogate: TCMX	*1.52*			ug/L	*2.50*	*NA*	*60.9*	*40-120*			

Matrix Spike (B9I0149-MS1)

Source: 0904847-02 Prepared: 09/09/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	3.02	0.28	0.018	ug/L	2.84	ND	106	50-130	NA	NA	
4,4'-DDE	2.88	0.28	0.018	ug/L	2.84	ND	101	50-130	NA	NA	
4,4'-DDT	2.83	0.28	0.022	ug/L	2.84	ND	99.5	50-130	NA	NA	
Aldrin	2.60	0.28	0.020	ug/L	2.84	ND	91.7	50-130	NA	NA	
alpha-BHC	2.97	0.28	0.024	ug/L	2.84	ND	105	50-130	NA	NA	
alpha-Chlordane	2.92	0.28	0.018	ug/L	2.84	ND	103	50-130	NA	NA	
beta-BHC	3.09	0.28	0.018	ug/L	2.84	ND	109	50-130	NA	NA	
delta-BHC	3.10	0.28	0.016	ug/L	2.84	ND	109	50-130	NA	NA	
Dieldrin	2.96	0.28	0.027	ug/L	2.84	ND	104	50-130	NA	NA	
Endosulfan I	2.93	0.28	0.024	ug/L	2.84	ND	103	50-130	NA	NA	
Endosulfan II	2.89	0.28	0.022	ug/L	2.84	ND	102	50-130	NA	NA	
Endosulfan Sulfate	2.89	0.28	0.022	ug/L	2.84	ND	102	50-130	NA	NA	
Endrin	2.87	0.28	0.023	ug/L	2.84	ND	101	50-130	NA	NA	
Endrin Aldehyde	2.99	0.28	0.045	ug/L	2.84	ND	105	50-130	NA	NA	
Endrin Ketone	3.16	0.28	0.021	ug/L	2.84	ND	111	50-130	NA	NA	
gamma-BHC	3.05	0.28	0.023	ug/L	2.84	ND	107	50-130	NA	NA	
gamma-Chlordane	2.99	0.28	0.048	ug/L	2.84	ND	105	50-130	NA	NA	
Heptachlor	2.71	0.28	0.020	ug/L	2.84	ND	95.4	50-130	NA	NA	
Heptachlor Epoxide	3.00	0.28	0.043	ug/L	2.84	ND	106	50-130	NA	NA	
Methoxychlor	2.87	0.28	0.030	ug/L	2.84	ND	101	50-130	NA	NA	
Surrogate: DBC	*2.88*			ug/L	*2.84*	*NA*	*101*	*40-130*			
Surrogate: TCMX	*2.54*			ug/L	*2.84*	*NA*	*89.4*	*40-120*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904848
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0149 - EPA 3510C

Matrix Spike Duplicate (B9I0149-MSD1) **Source: 0904847-02** Prepared: 09/09/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	3.09	0.31	0.020	ug/L	3.07	ND	101	50-130	2.10	25	
4,4'-DDE	3.04	0.31	0.020	ug/L	3.07	ND	99.1	50-130	5.42	25	
4,4'-DDT	2.90	0.31	0.024	ug/L	3.07	ND	94.5	50-130	2.48	25	
Aldrin	2.75	0.31	0.022	ug/L	3.07	ND	89.7	50-130	5.44	25	
alpha-BHC	3.03	0.31	0.026	ug/L	3.07	ND	98.7	50-130	1.81	25	
alpha-Chlordane	3.05	0.31	0.019	ug/L	3.07	ND	99.3	50-130	4.20	25	
beta-BHC	3.23	0.31	0.020	ug/L	3.07	ND	105	50-130	4.21	25	
delta-BHC	3.21	0.31	0.017	ug/L	3.07	ND	105	50-130	3.49	25	
Dieldrin	3.08	0.31	0.029	ug/L	3.07	ND	100	50-130	3.72	25	
Endosulfan I	3.02	0.31	0.026	ug/L	3.07	ND	98.6	50-130	3.08	25	
Endosulfan II	2.97	0.31	0.023	ug/L	3.07	ND	96.8	50-130	2.66	25	
Endosulfan Sulfate	2.97	0.31	0.024	ug/L	3.07	ND	96.8	50-130	2.80	25	
Endrin	2.99	0.31	0.025	ug/L	3.07	ND	97.4	50-130	3.87	25	
Endrin Aldehyde	3.04	0.31	0.049	ug/L	3.07	ND	99.0	50-130	1.54	25	
Endrin Ketone	3.15	0.31	0.023	ug/L	3.07	ND	103	50-130	0.221	25	
gamma-BHC	3.13	0.31	0.025	ug/L	3.07	ND	102	50-130	2.61	25	
gamma-Chlordane	3.12	0.31	0.052	ug/L	3.07	ND	102	50-130	4.36	25	
Heptachlor	2.81	0.31	0.022	ug/L	3.07	ND	91.5	50-130	3.50	25	
Heptachlor Epoxide	3.17	0.31	0.047	ug/L	3.07	ND	103	50-130	5.49	25	
Methoxychlor	2.96	0.31	0.032	ug/L	3.07	ND	96.6	50-130	3.14	25	
Surrogate: DBC	*2.96*			ug/L	*3.07*	*NA*	*96.5*	*40-130*			
Surrogate: TCMX	*2.47*			ug/L	*3.07*	*NA*	*80.6*	*40-120*			

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0151 - EPA 3510C

Method Blank (B9I0151-BLK1)

Prepared: 09/09/09 Analyzed: 09/11/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	<0.25	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Alachlor	<0.19	0.50	0.19	ug/L	NA	NA	NA	NA	NA	NA	
Atrazine	<0.24	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	<0.34	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Cyanazine	<0.48	0.50	0.48	ug/L	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	<0.26	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
Desethylatrazine	<0.29	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Dimethenamid	<0.24	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
EPTC	<0.22	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Ethalfluralin	<0.47	0.50	0.47	ug/L	NA	NA	NA	NA	NA	NA	
Fonofos	<0.30	0.50	0.30	ug/L	NA	NA	NA	NA	NA	NA	
Metolachlor	<0.28	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
Metribuzin	<0.35	0.50	0.35	ug/L	NA	NA	NA	NA	NA	NA	
Pendimethalin	<0.25	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Phorate	<0.58	1.0	0.58	ug/L	NA	NA	NA	NA	NA	NA	
Prometon	<0.29	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Propachlor	<0.14	0.50	0.14	ug/L	NA	NA	NA	NA	NA	NA	
Propazine	<0.21	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Simazine	<0.32	0.50	0.32	ug/L	NA	NA	NA	NA	NA	NA	
Terbufos	<0.54	1.0	0.54	ug/L	NA	NA	NA	NA	NA	NA	
Triallate	<0.34	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Trifluralin	<0.21	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: Atrazine-d5	*8.65*			ug/L	*10.0*	*NA*	*86.5*	*50-120*			
Surrogate: Diazinon-d10	*8.02*			ug/L	*10.0*	*NA*	*80.2*	*50-120*			

Laboratory Control Sample (B9I0151-BS1)

Prepared: 09/09/09 Analyzed: 09/11/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	8.83	0.50	0.25	ug/L	10.0	NA	88.3	65-115	NA	NA	
Alachlor	8.87	0.50	0.19	ug/L	10.0	NA	88.7	65-115	NA	NA	
Atrazine	8.45	0.50	0.24	ug/L	10.0	NA	84.5	65-115	NA	NA	
Chlorpyrifos	8.45	0.50	0.34	ug/L	10.0	NA	84.5	65-115	NA	NA	
Cyanazine	10.4	0.50	0.48	ug/L	10.0	NA	104	65-115	NA	NA	
Deisopropylatrazine	8.60	0.50	0.26	ug/L	10.0	NA	86.0	65-115	NA	NA	
Desethylatrazine	9.00	0.50	0.29	ug/L	10.0	NA	90.0	65-115	NA	NA	
Dimethenamid	8.54	0.50	0.24	ug/L	10.0	NA	85.4	65-115	NA	NA	
EPTC	7.22	0.50	0.22	ug/L	10.0	NA	72.2	50-110	NA	NA	
Ethalfluralin	9.23	0.50	0.47	ug/L	10.0	NA	92.3	65-115	NA	NA	
Fonofos	8.40	0.50	0.30	ug/L	10.0	NA	84.0	55-115	NA	NA	
Metolachlor	9.06	0.50	0.28	ug/L	10.0	NA	90.6	70-120	NA	NA	
Metribuzin	9.37	0.50	0.35	ug/L	10.0	NA	93.7	70-120	NA	NA	
Pendimethalin	9.02	0.50	0.25	ug/L	10.0	NA	90.2	65-115	NA	NA	
Phorate	7.79	1.0	0.58	ug/L	10.0	NA	77.9	30-100	NA	NA	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0151 - EPA 3510C

Laboratory Control Sample (B9I0151-BS1)

Prepared: 09/09/09 Analyzed: 09/11/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	9.34	0.50	0.29	ug/L	10.0	NA	93.4	70-120	NA	NA	
Propachlor	8.70	0.50	0.14	ug/L	10.0	NA	87.0	65-115	NA	NA	
Propazine	8.74	0.50	0.21	ug/L	10.0	NA	87.4	65-115	NA	NA	
Simazine	10.2	0.50	0.32	ug/L	10.0	NA	102	65-115	NA	NA	
Terbufos	8.39	1.0	0.54	ug/L	10.0	NA	83.9	30-100	NA	NA	
Triallate	8.24	0.50	0.34	ug/L	10.0	NA	82.4	65-115	NA	NA	
Trifluralin	8.81	0.50	0.21	ug/L	10.0	NA	88.1	65-115	NA	NA	
Surrogate: Atrazine-d5	*8.35*			ug/L	*10.0*	*NA*	*83.5*	*50-120*			
Surrogate: Diazinon-d10	*8.05*			ug/L	*10.0*	*NA*	*80.5*	*50-120*			

Laboratory Control Sample Duplicate (B9I0151-BSD1)

Prepared: 09/09/09 Analyzed: 09/11/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	8.63	0.50	0.25	ug/L	10.0	NA	86.3	65-115	2.29	25	
Alachlor	8.66	0.50	0.19	ug/L	10.0	NA	86.6	65-115	2.40	25	
Atrazine	8.62	0.50	0.24	ug/L	10.0	NA	86.2	65-115	1.99	25	
Chlorpyrifos	8.10	0.50	0.34	ug/L	10.0	NA	81.0	65-115	4.23	25	
Cyanazine	10.5	0.50	0.48	ug/L	10.0	NA	105	65-115	1.15	25	
Deisopropylatrazine	8.21	0.50	0.26	ug/L	10.0	NA	82.1	65-115	4.64	25	
Desethylatrazine	8.82	0.50	0.29	ug/L	10.0	NA	88.2	65-115	2.02	25	
Dimethenamid	8.55	0.50	0.24	ug/L	10.0	NA	85.5	65-115	0.117	25	
EPTC	6.98	0.50	0.22	ug/L	10.0	NA	69.8	50-110	3.38	30	
Ethalfluralin	9.10	0.50	0.47	ug/L	10.0	NA	91.0	65-115	1.42	30	
Fonofos	8.05	0.50	0.30	ug/L	10.0	NA	80.5	55-115	4.26	30	
Metolachlor	8.75	0.50	0.28	ug/L	10.0	NA	87.5	70-120	3.48	25	
Metribuzin	9.64	0.50	0.35	ug/L	10.0	NA	96.4	70-120	2.84	25	
Pendimethalin	8.66	0.50	0.25	ug/L	10.0	NA	86.6	65-115	4.07	25	
Phorate	7.34	1.0	0.58	ug/L	10.0	NA	73.4	30-100	5.95	30	
Prometon	9.42	0.50	0.29	ug/L	10.0	NA	94.2	70-120	0.853	30	
Propachlor	8.11	0.50	0.14	ug/L	10.0	NA	81.1	65-115	7.02	30	
Propazine	8.65	0.50	0.21	ug/L	10.0	NA	86.5	65-115	1.04	25	
Simazine	10.1	0.50	0.32	ug/L	10.0	NA	101	65-115	1.09	25	
Terbufos	8.24	1.0	0.54	ug/L	10.0	NA	82.4	30-100	1.80	30	
Triallate	7.98	0.50	0.34	ug/L	10.0	NA	79.8	65-115	3.21	25	
Trifluralin	8.60	0.50	0.21	ug/L	10.0	NA	86.0	65-115	2.41	25	
Surrogate: Atrazine-d5	*8.11*			ug/L	*10.0*	*NA*	*81.1*	*50-120*			
Surrogate: Diazinon-d10	*7.89*			ug/L	*10.0*	*NA*	*78.9*	*50-120*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904848
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0151 - EPA 3510C

Matrix Spike (B9I0151-MS1)

Source: 0904847-02 Prepared: 09/09/09 Analyzed: 09/11/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	9.64	0.58	0.29	ug/L	11.6	ND	83.4	65-115	NA	NA	
Alachlor	10.0	0.58	0.22	ug/L	11.6	ND	86.5	65-115	NA	NA	
Atrazine	10.0	0.58	0.27	ug/L	11.6	ND	86.6	65-115	NA	NA	
Chlorpyrifos	9.29	0.58	0.39	ug/L	11.6	ND	80.4	60-115	NA	NA	
Cyanazine	12.0	0.58	0.56	ug/L	11.6	ND	104	65-120	NA	NA	
Deisopropylatrazine	9.62	0.58	0.30	ug/L	11.6	ND	83.2	65-115	NA	NA	
Desethylatrazine	10.1	0.58	0.34	ug/L	11.6	ND	87.3	65-115	NA	NA	
Dimethenamid	9.60	0.58	0.27	ug/L	11.6	ND	83.0	65-120	NA	NA	
EPTC	8.96	0.58	0.25	ug/L	11.6	ND	77.5	50-110	NA	NA	
Ethalfluralin	10.7	0.58	0.54	ug/L	11.6	ND	92.5	65-115	NA	NA	
Fonofos	9.35	0.58	0.34	ug/L	11.6	ND	80.9	55-115	NA	NA	
Metolachlor	9.88	0.58	0.32	ug/L	11.6	ND	85.5	65-120	NA	NA	
Metribuzin	10.7	0.58	0.40	ug/L	11.6	ND	92.6	65-120	NA	NA	
Pendimethalin	10.1	0.58	0.29	ug/L	11.6	ND	87.0	60-115	NA	NA	
Phorate	8.95	1.2	0.68	ug/L	11.6	ND	77.4	30-100	NA	NA	
Prometon	10.3	0.58	0.34	ug/L	11.6	ND	89.3	70-120	NA	NA	
Propachlor	9.41	0.58	0.16	ug/L	11.6	ND	81.4	65-115	NA	NA	
Propazine	9.83	0.58	0.24	ug/L	11.6	ND	85.0	65-115	NA	NA	
Simazine	11.1	0.58	0.37	ug/L	11.6	ND	96.4	60-115	NA	NA	
Terbufos	9.48	1.2	0.63	ug/L	11.6	ND	82.0	30-100	NA	NA	
Triallate	9.18	0.58	0.39	ug/L	11.6	ND	79.4	60-115	NA	NA	
Trifluralin	9.94	0.58	0.25	ug/L	11.6	ND	86.0	65-115	NA	NA	
Surrogate: Atrazine-d5	*9.29*			ug/L	*11.6*	*NA*	*80.4*	*50-120*			
Surrogate: Diazinon-d10	*9.04*			ug/L	*11.6*	*NA*	*78.2*	*50-120*			

Matrix Spike Duplicate (B9I0151-MSD1)

Source: 0904847-02 Prepared: 09/09/09 Analyzed: 09/11/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	10.5	0.58	0.29	ug/L	11.6	ND	90.2	65-115	8.41	30	
Alachlor	10.1	0.58	0.22	ug/L	11.6	ND	87.2	65-115	1.39	30	
Atrazine	10.3	0.58	0.28	ug/L	11.6	ND	88.4	65-115	2.64	30	
Chlorpyrifos	9.83	0.58	0.39	ug/L	11.6	ND	84.5	60-115	5.55	30	
Cyanazine	12.3	0.58	0.56	ug/L	11.6	ND	106	65-120	2.67	30	
Deisopropylatrazine	10.1	0.58	0.30	ug/L	11.6	ND	86.9	65-115	4.93	30	
Desethylatrazine	10.6	0.58	0.34	ug/L	11.6	ND	91.1	65-115	4.84	30	
Dimethenamid	9.98	0.58	0.27	ug/L	11.6	ND	85.8	65-120	3.90	30	
EPTC	9.28	0.58	0.25	ug/L	11.6	ND	79.8	50-110	3.50	30	
Ethalfluralin	11.2	0.58	0.54	ug/L	11.6	ND	96.2	65-115	4.50	30	
Fonofos	9.81	0.58	0.34	ug/L	11.6	ND	84.4	55-115	4.81	30	
Metolachlor	10.4	0.58	0.32	ug/L	11.6	ND	89.4	65-120	5.04	30	
Metribuzin	10.9	0.58	0.41	ug/L	11.6	ND	93.4	65-120	1.44	30	
Pendimethalin	10.4	0.58	0.29	ug/L	11.6	ND	89.7	60-115	3.64	30	
Phorate	9.26	1.2	0.68	ug/L	11.6	ND	79.6	30-100	3.38	30	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904848
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0151 - EPA 3510C

Matrix Spike Duplicate (B9I0151-MSD1)

Source: 0904847-02 Prepared: 09/09/09 Analyzed: 09/11/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	10.7	0.58	0.34	ug/L	11.6	ND	91.7	70-120	3.23	30	
Propachlor	10.0	0.58	0.16	ug/L	11.6	ND	86.1	65-115	6.19	30	
Propazine	10.3	0.58	0.24	ug/L	11.6	ND	88.8	65-115	4.95	30	
Simazine	11.3	0.58	0.37	ug/L	11.6	ND	97.1	60-115	1.30	30	
Terbufos	9.62	1.2	0.63	ug/L	11.6	ND	82.7	30-100	1.43	30	
Triallate	9.57	0.58	0.39	ug/L	11.6	ND	82.3	60-115	4.17	30	
Trifluralin	10.4	0.58	0.25	ug/L	11.6	ND	89.3	65-115	4.34	30	
Surrogate: Atrazine-d5	*9.74*			ug/L	*11.6*	*NA*	*83.8*	*50-120*			
Surrogate: Diazinon-d10	*9.30*			ug/L	*11.6*	*NA*	*80.0*	*50-120*			

Batch B9I0227 - EPA 3545

Method Blank (B9I0227-BLK1)

Prepared: 09/13/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	<0.040	0.040	0.010	mg/kg	NA	NA	NA	NA	NA	NA	
Alachlor	<0.040	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Atrazine	<0.040	0.040	0.010	mg/kg	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	<0.040	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Cyanazine	<0.040	0.040	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	<0.040	0.040	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Desethylatrazine	<0.040	0.040	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Dimethenamid	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
EPTC	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Ethalfluralin	<0.040	0.040	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Fonofos	<0.040	0.040	0.0040	mg/kg	NA	NA	NA	NA	NA	NA	
Metolachlor	<0.040	0.040	0.0030	mg/kg	NA	NA	NA	NA	NA	NA	
Metribuzin	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Pendimethalin	<0.040	0.040	0.016	mg/kg	NA	NA	NA	NA	NA	NA	
Phorate	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Prometon	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Propachlor	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Propazine	<0.040	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Simazine	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Terbufos	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Triallate	<0.040	0.040	0.0050	mg/kg	NA	NA	NA	NA	NA	NA	
Trifluralin	<0.040	0.040	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: Atrazine-d5	*0.232*			mg/kg	*0.329*	*NA*	*70.6*	*50-125*			
Surrogate: Diazinon-d10	*0.246*			mg/kg	*0.329*	*NA*	*74.6*	*35-120*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904848
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0227 - EPA 3545

Laboratory Control Sample (B9I0227-BS1)

Prepared: 09/13/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.302	0.040	0.010	mg/kg	0.332	NA	91.1	70-120	NA	NA	
Alachlor	0.299	0.040	0.0070	mg/kg	0.332	NA	90.2	70-120	NA	NA	
Atrazine	0.294	0.040	0.010	mg/kg	0.332	NA	88.7	70-120	NA	NA	
Chlorpyrifos	0.293	0.040	0.0070	mg/kg	0.332	NA	88.4	70-120	NA	NA	
Cyanazine	0.306	0.040	0.0080	mg/kg	0.332	NA	92.3	70-120	NA	NA	
Deisopropylatrazine	0.274	0.040	0.0080	mg/kg	0.332	NA	82.6	65-115	NA	NA	
Desethylatrazine	0.301	0.040	0.011	mg/kg	0.332	NA	90.7	70-120	NA	NA	
Dimethenamid	0.296	0.040	0.0060	mg/kg	0.332	NA	89.3	70-120	NA	NA	
EPTC	0.284	0.040	0.0060	mg/kg	0.332	NA	85.7	60-105	NA	NA	
Ethalfluralin	0.276	0.040	0.014	mg/kg	0.332	NA	83.2	70-120	NA	NA	
Fonofos	0.298	0.040	0.0040	mg/kg	0.332	NA	89.8	70-115	NA	NA	
Metolachlor	0.300	0.040	0.0030	mg/kg	0.332	NA	90.6	70-120	NA	NA	
Metribuzin	0.297	0.040	0.0090	mg/kg	0.332	NA	89.7	70-120	NA	NA	
Pendimethalin	0.307	0.040	0.016	mg/kg	0.332	NA	92.7	70-120	NA	NA	
Phorate	0.305	0.040	0.0060	mg/kg	0.332	NA	91.9	70-115	NA	NA	
Prometon	0.299	0.040	0.0060	mg/kg	0.332	NA	90.2	70-120	NA	NA	
Propachlor	0.284	0.040	0.0090	mg/kg	0.332	NA	85.8	70-115	NA	NA	
Propazine	0.297	0.040	0.0070	mg/kg	0.332	NA	89.7	70-120	NA	NA	
Simazine	0.262	0.040	0.0090	mg/kg	0.332	NA	78.9	60-115	NA	NA	
Terbufos	0.293	0.040	0.0090	mg/kg	0.332	NA	88.5	70-115	NA	NA	
Triallate	0.285	0.040	0.0050	mg/kg	0.332	NA	86.0	70-115	NA	NA	
Trifluralin	0.284	0.040	0.014	mg/kg	0.332	NA	85.8	70-115	NA	NA	
Surrogate: Atrazine-d5	*0.259*			mg/kg	*0.332*	*NA*	*78.2*	*50-125*			
Surrogate: Diazinon-d10	*0.264*			mg/kg	*0.332*	*NA*	*79.7*	*35-120*			

Laboratory Control Sample Duplicate (B9I0227-BSD1)

Prepared: 09/13/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.298	0.040	0.010	mg/kg	0.329	NA	90.4	70-120	1.47	20	
Alachlor	0.304	0.040	0.0070	mg/kg	0.329	NA	92.2	70-120	1.50	20	
Atrazine	0.298	0.040	0.010	mg/kg	0.329	NA	90.4	70-120	1.20	20	
Chlorpyrifos	0.294	0.040	0.0070	mg/kg	0.329	NA	89.2	70-120	0.207	20	
Cyanazine	0.308	0.040	0.0080	mg/kg	0.329	NA	93.5	70-120	0.598	20	
Deisopropylatrazine	0.279	0.040	0.0080	mg/kg	0.329	NA	84.7	65-115	1.82	20	
Desethylatrazine	0.298	0.040	0.011	mg/kg	0.329	NA	90.6	70-120	0.804	20	
Dimethenamid	0.308	0.040	0.0060	mg/kg	0.329	NA	93.6	70-120	4.01	20	
EPTC	0.269	0.040	0.0060	mg/kg	0.329	NA	81.7	60-105	5.47	20	
Ethalfluralin	0.302	0.040	0.014	mg/kg	0.329	NA	91.7	70-120	9.03	20	
Fonofos	0.300	0.040	0.0040	mg/kg	0.329	NA	91.1	70-115	0.743	20	
Metolachlor	0.307	0.040	0.0030	mg/kg	0.329	NA	93.3	70-120	2.24	20	
Metribuzin	0.299	0.040	0.0090	mg/kg	0.329	NA	90.7	70-120	0.415	20	
Pendimethalin	0.310	0.040	0.016	mg/kg	0.329	NA	94.1	70-120	0.805	20	
Phorate	0.304	0.040	0.0060	mg/kg	0.329	NA	92.4	70-115	0.151	20	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904848
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0227 - EPA 3545

Laboratory Control Sample Duplicate (B9I0227-BSD1)

Prepared: 09/13/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	0.311	0.040	0.0060	mg/kg	0.329	NA	94.5	70-120	3.96	20	
Propachlor	0.288	0.040	0.0090	mg/kg	0.329	NA	87.5	70-115	1.27	20	
Propazine	0.309	0.040	0.0070	mg/kg	0.329	NA	93.9	70-120	3.88	20	
Simazine	0.273	0.040	0.0090	mg/kg	0.329	NA	82.9	60-115	4.25	20	
Terbufos	0.296	0.040	0.0090	mg/kg	0.329	NA	90.0	70-115	0.987	20	
Triallate	0.290	0.040	0.0050	mg/kg	0.329	NA	88.1	70-115	1.72	20	
Trifluralin	0.278	0.040	0.014	mg/kg	0.329	NA	84.5	70-115	2.22	20	
Surrogate: Atrazine-d5	*0.261*			mg/kg	*0.329*	*NA*	*79.4*	*50-125*			
Surrogate: Diazinon-d10	*0.268*			mg/kg	*0.329*	*NA*	*81.3*	*35-120*			

Matrix Spike (B9I0227-MS1)

Source: 0904744-01 Prepared: 09/13/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.356	0.048	0.012	mg/kg dry	0.396	ND	89.8	50-120	NA	NA	
Alachlor	0.366	0.048	0.0083	mg/kg dry	0.396	ND	92.3	55-120	NA	NA	
Atrazine	0.375	0.048	0.012	mg/kg dry	0.396	ND	94.7	60-120	NA	NA	
Chlorpyrifos	0.313	0.048	0.0083	mg/kg dry	0.396	ND	79.0	40-125	NA	NA	
Cyanazine	0.390	0.048	0.0095	mg/kg dry	0.396	ND	98.3	55-125	NA	NA	
Deisopropylatrazine	0.334	0.048	0.0095	mg/kg dry	0.396	ND	84.4	55-120	NA	NA	
Desethylatrazine	0.379	0.048	0.013	mg/kg dry	0.396	ND	95.6	60-125	NA	NA	
Dimethenamid	0.384	0.048	0.0071	mg/kg dry	0.396	ND	96.9	55-120	NA	NA	
EPTC	0.363	0.048	0.0071	mg/kg dry	0.396	ND	91.6	40-105	NA	NA	
Ethalfluralin	0.327	0.048	0.017	mg/kg dry	0.396	ND	82.6	40-120	NA	NA	
Fonofos	0.356	0.048	0.0048	mg/kg dry	0.396	ND	89.9	45-115	NA	NA	
Metolachlor	0.401	0.048	0.0036	mg/kg dry	0.396	0.0233	95.2	50-125	NA	NA	
Metribuzin	0.356	0.048	0.011	mg/kg dry	0.396	ND	89.9	55-125	NA	NA	
Pendimethalin	0.349	0.048	0.019	mg/kg dry	0.396	ND	88.0	40-120	NA	NA	
Phorate	0.357	0.048	0.0071	mg/kg dry	0.396	ND	90.2	40-115	NA	NA	
Prometon	0.345	0.048	0.0071	mg/kg dry	0.396	ND	87.0	60-125	NA	NA	
Propachlor	0.379	0.048	0.011	mg/kg dry	0.396	ND	95.7	60-115	NA	NA	
Propazine	0.386	0.048	0.0083	mg/kg dry	0.396	ND	97.5	55-120	NA	NA	
Simazine	0.336	0.048	0.011	mg/kg dry	0.396	ND	84.8	50-120	NA	NA	
Terbufos	0.344	0.048	0.011	mg/kg dry	0.396	ND	86.8	40-120	NA	NA	
Triallate	0.327	0.048	0.0059	mg/kg dry	0.396	ND	82.6	40-115	NA	NA	
Trifluralin	0.319	0.048	0.017	mg/kg dry	0.396	ND	80.6	40-115	NA	NA	
Surrogate: Atrazine-d5	*0.350*			mg/kg dry	*0.396*	*NA*	*88.3*	*50-125*			
Surrogate: Diazinon-d10	*0.321*			mg/kg dry	*0.396*	*NA*	*80.9*	*35-120*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904848
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0227 - EPA 3545

Matrix Spike Duplicate (B9I0227-MSD1) **Source: 0904744-01** Prepared: 09/13/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.330	0.048	0.012	mg/kg dry	0.395	ND	83.6	50-120	7.48	25	
Alachlor	0.336	0.048	0.0083	mg/kg dry	0.395	ND	85.0	55-120	8.57	25	
Atrazine	0.350	0.048	0.012	mg/kg dry	0.395	ND	88.5	60-120	7.10	25	
Chlorpyrifos	0.294	0.048	0.0083	mg/kg dry	0.395	ND	74.4	40-125	6.33	25	
Cyanazine	0.354	0.048	0.0095	mg/kg dry	0.395	ND	89.7	55-125	9.48	25	
Deisopropylatrazine	0.329	0.048	0.0095	mg/kg dry	0.395	ND	83.2	55-120	1.76	25	
Desethylatrazine	0.353	0.048	0.013	mg/kg dry	0.395	ND	89.3	60-125	7.15	25	
Dimethenamid	0.357	0.048	0.0071	mg/kg dry	0.395	ND	90.5	55-120	7.16	25	
EPTC	0.331	0.048	0.0071	mg/kg dry	0.395	ND	83.7	40-105	9.34	25	
Ethalfluralin	0.308	0.048	0.017	mg/kg dry	0.395	ND	77.9	40-120	6.19	25	
Fonofos	0.326	0.048	0.0048	mg/kg dry	0.395	ND	82.5	45-115	8.92	25	
Metolachlor	0.362	0.048	0.0036	mg/kg dry	0.395	0.0233	85.8	50-125	10.1	25	
Metribuzin	0.336	0.048	0.011	mg/kg dry	0.395	ND	85.0	55-125	5.94	25	
Pendimethalin	0.308	0.048	0.019	mg/kg dry	0.395	ND	77.9	40-120	12.5	25	
Phorate	0.323	0.048	0.0071	mg/kg dry	0.395	ND	81.7	40-115	10.2	25	
Prometon	0.333	0.048	0.0071	mg/kg dry	0.395	ND	84.3	60-125	3.48	25	
Propachlor	0.350	0.048	0.011	mg/kg dry	0.395	ND	88.5	60-115	8.15	25	
Propazine	0.357	0.048	0.0083	mg/kg dry	0.395	ND	90.4	55-120	7.89	25	
Simazine	0.323	0.048	0.011	mg/kg dry	0.395	ND	81.8	50-120	3.93	25	
Terbufos	0.309	0.048	0.011	mg/kg dry	0.395	ND	78.3	40-120	10.6	25	
Triallate	0.298	0.048	0.0059	mg/kg dry	0.395	ND	75.4	40-115	9.45	25	
Trifluralin	0.299	0.048	0.017	mg/kg dry	0.395	ND	75.6	40-115	6.73	25	
Surrogate: Atrazine-d5	*0.312*			mg/kg dry	*0.395*	*NA*	*79.0*	*50-125*			
Surrogate: Diazinon-d10	*0.307*			mg/kg dry	*0.395*	*NA*	*77.7*	*35-120*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904848
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0107 - EPA 3510C

Method Blank (B9I0107-BLK1)

Prepared: 09/08/09 Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	<0.50	0.50	0.31	ug/L	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	<0.50	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D	<0.50	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D.B.	<0.50	0.50	0.15	ug/L	NA	NA	NA	NA	NA	NA	
Bentazon	<0.50	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Dicamba	<0.50	0.50	0.38	ug/L	NA	NA	NA	NA	NA	NA	
Dinoseb	<1.0	1.0	0.34	ug/L	NA	NA	NA	NA	NA	NA	
M.C.P.A.	<0.30	0.30	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	<0.50	0.50	0.39	ug/L	NA	NA	NA	NA	NA	NA	
Picloram	<0.50	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Triclopyr	<0.50	0.50	0.41	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	*3.95*			ug/L	*5.00*	*NA*	*79.0*	*65-130*			

Laboratory Control Sample (B9I0107-BS1)

Prepared: 09/08/09 Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.62	0.50	0.31	ug/L	5.00	NA	92.4	70-130	NA	NA	
2,4,5-T.P.	4.57	0.50	0.28	ug/L	5.00	NA	91.4	70-130	NA	NA	
2,4-D	4.23	0.50	0.26	ug/L	5.00	NA	84.6	70-130	NA	NA	
2,4-D.B.	5.67	0.50	0.15	ug/L	5.00	NA	113	75-140	NA	NA	
Bentazon	5.14	0.50	0.22	ug/L	5.00	NA	103	75-135	NA	NA	
Dicamba	3.82	0.50	0.38	ug/L	5.00	NA	76.4	65-130	NA	NA	
Dinoseb	3.57	1.0	0.34	ug/L	5.00	NA	71.4	40-125	NA	NA	
M.C.P.A.	3.67	0.30	0.29	ug/L	5.00	NA	73.4	70-130	NA	NA	
Pentachlorophenol	4.25	0.50	0.39	ug/L	5.00	NA	85.0	70-120	NA	NA	
Picloram	3.81	0.50	0.25	ug/L	5.00	NA	76.2	60-125	NA	NA	
Triclopyr	4.32	0.50	0.41	ug/L	5.00	NA	86.4	75-125	NA	NA	
Surrogate: D.C.A.A.	*3.80*			ug/L	*5.00*	*NA*	*76.0*	*65-130*			

Laboratory Control Sample Duplicate (B9I0107-BSD1)

Prepared: 09/08/09 Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.33	0.50	0.31	ug/L	5.00	NA	86.6	70-130	6.48	20	
2,4,5-T.P.	4.65	0.50	0.28	ug/L	5.00	NA	93.0	70-130	1.74	20	
2,4-D	4.25	0.50	0.26	ug/L	5.00	NA	85.0	70-130	0.472	20	
2,4-D.B.	5.52	0.50	0.15	ug/L	5.00	NA	110	75-140	2.68	20	
Bentazon	4.99	0.50	0.22	ug/L	5.00	NA	99.8	75-135	2.96	20	
Dicamba	3.80	0.50	0.38	ug/L	5.00	NA	76.0	65-130	0.525	20	
Dinoseb	3.45	1.0	0.34	ug/L	5.00	NA	69.0	40-125	3.42	20	
M.C.P.A.	3.75	0.30	0.29	ug/L	5.00	NA	75.0	70-130	2.16	20	
Pentachlorophenol	3.96	0.50	0.39	ug/L	5.00	NA	79.2	70-120	7.06	20	
Picloram	3.74	0.50	0.25	ug/L	5.00	NA	74.8	60-125	1.85	20	
Triclopyr	4.47	0.50	0.41	ug/L	5.00	NA	89.4	75-125	3.41	20	

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UMP018649

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904848
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0107 - EPA 3510C

Laboratory Control Sample Duplicate (B9I0107-BSD1)

Prepared: 09/08/09 Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: D.C.A.A.	*3.67*			ug/L	*5.00*	*NA*	*73.4*	*65-130*			

Matrix Spike (B9I0107-MS1)

Source: 0904847-02 Prepared: 09/08/09 Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.66	0.56	0.35	ug/L	5.62	ND	83.0	70-140	NA	NA	
2,4,5-T.P.	5.08	0.56	0.32	ug/L	5.62	ND	90.4	70-135	NA	NA	
2,4-D	4.49	0.56	0.30	ug/L	5.62	ND	80.0	70-140	NA	NA	
2,4-D.B.	5.90	0.56	0.17	ug/L	5.62	ND	105	75-140	NA	NA	
Bentazon	4.87	0.56	0.25	ug/L	5.62	ND	86.6	70-140	NA	NA	
Dicamba	4.35	0.56	0.43	ug/L	5.62	ND	77.4	65-140	NA	NA	
Dinoseb	4.37	1.1	0.39	ug/L	5.62	ND	77.8	40-130	NA	NA	
M.C.P.A.	3.34	0.34	0.33	ug/L	5.62	ND	59.4	60-140	NA	NA	
Pentachlorophenol	2.87	0.56	0.44	ug/L	5.62	ND	51.0	70-125	NA	NA	
Picloram	4.17	0.56	0.28	ug/L	5.62	ND	74.2	45-140	NA	NA	
Triclopyr	4.69	0.56	0.46	ug/L	5.62	ND	83.4	75-125	NA	NA	
Surrogate: D.C.A.A.	*4.45*			ug/L	*5.62*	*NA*	*79.2*	*65-130*			

Matrix Spike Duplicate (B9I0107-MSD1)

Source: 0904847-02 Prepared: 09/08/09 Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	5.00	0.57	0.36	ug/L	5.68	ND	88.0	70-140	6.98	25	
2,4,5-T.P.	5.19	0.57	0.32	ug/L	5.68	ND	91.4	70-135	2.23	25	
2,4-D	4.61	0.57	0.30	ug/L	5.68	ND	81.2	70-140	2.62	25	
2,4-D.B.	6.08	0.57	0.17	ug/L	5.68	ND	107	75-140	3.02	25	
Bentazon	4.47	0.57	0.26	ug/L	5.68	ND	78.6	70-140	8.56	25	
Dicamba	4.42	0.57	0.43	ug/L	5.68	ND	77.8	65-140	1.65	25	
Dinoseb	4.28	1.1	0.39	ug/L	5.68	ND	75.4	40-130	2.00	25	
M.C.P.A.	3.28	0.34	0.33	ug/L	5.68	ND	57.8	60-140	1.60	25	
Pentachlorophenol	2.28	0.57	0.45	ug/L	5.68	ND	40.2	70-125	22.6	25	
Picloram	4.43	0.57	0.29	ug/L	5.68	ND	78.0	45-140	6.12	25	
Triclopyr	4.94	0.57	0.46	ug/L	5.68	ND	87.0	75-125	5.35	25	
Surrogate: D.C.A.A.	*4.39*			ug/L	*5.68*	*NA*	*77.2*	*65-130*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904848
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0256 - EPA 3545

Method Blank (B9I0256-BLK1)

Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	<0.050	0.050	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	<0.050	0.050	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D	<0.050	0.050	0.012	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D.B.	<0.050	0.050	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Bentazon	<0.050	0.050	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Dicamba	<0.050	0.050	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Dinoseb	<0.050	0.050	0.0050	mg/kg	NA	NA	NA	NA	NA	NA	
M.C.P.A.	<0.050	0.050	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	<0.050	0.050	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Picloram	<0.050	0.050	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Triclopyr	<0.050	0.050	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	*0.112*			mg/kg	*0.166*	*NA*	*67.2*	*50-125*			

Laboratory Control Sample (B9I0256-BS1)

Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.128	0.050	0.0090	mg/kg	0.164	NA	77.8	60-125	NA	NA	
2,4,5-T.P.	0.127	0.050	0.0070	mg/kg	0.164	NA	77.4	65-125	NA	NA	
2,4-D	0.126	0.050	0.012	mg/kg	0.164	NA	76.6	60-125	NA	NA	
2,4-D.B.	0.131	0.050	0.011	mg/kg	0.164	NA	79.6	70-130	NA	NA	
Bentazon	0.127	0.050	0.0090	mg/kg	0.164	NA	77.2	65-125	NA	NA	
Dicamba	0.123	0.050	0.0080	mg/kg	0.164	NA	75.2	60-120	NA	NA	
Dinoseb	0.0926	0.050	0.0050	mg/kg	0.164	NA	56.4	30-120	NA	NA	
M.C.P.A.	0.127	0.050	0.014	mg/kg	0.164	NA	77.2	60-115	NA	NA	
Pentachlorophenol	0.111	0.050	0.0070	mg/kg	0.164	NA	67.6	50-120	NA	NA	
Picloram	0.0725	0.050	0.011	mg/kg	0.164	NA	44.2	30-100	NA	NA	
Triclopyr	0.126	0.050	0.0060	mg/kg	0.164	NA	77.0	65-120	NA	NA	
Surrogate: D.C.A.A.	*0.130*			mg/kg	*0.164*	*NA*	*79.0*	*50-125*			

Laboratory Control Sample Duplicate (B9I0256-BSD1)

Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.133	0.050	0.0090	mg/kg	0.165	NA	80.6	60-125	4.13	25	
2,4,5-T.P.	0.134	0.050	0.0070	mg/kg	0.165	NA	81.4	65-125	5.63	25	
2,4-D	0.141	0.050	0.012	mg/kg	0.165	NA	85.6	60-125	11.7	25	
2,4-D.B.	0.136	0.050	0.011	mg/kg	0.165	NA	82.4	70-130	4.05	25	
Bentazon	0.126	0.050	0.0090	mg/kg	0.165	NA	76.6	65-125	0.188	25	
Dicamba	0.131	0.050	0.0080	mg/kg	0.165	NA	79.4	60-120	6.03	25	
Dinoseb	0.102	0.050	0.0050	mg/kg	0.165	NA	61.8	30-120	9.73	25	
M.C.P.A.	0.133	0.050	0.014	mg/kg	0.165	NA	80.6	60-115	4.90	25	
Pentachlorophenol	0.124	0.050	0.0070	mg/kg	0.165	NA	75.2	50-120	11.2	25	
Picloram	0.0918	0.050	0.011	mg/kg	0.165	NA	55.6	30-100	23.4	25	
Triclopyr	0.131	0.050	0.0060	mg/kg	0.165	NA	79.4	65-120	3.66	25	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904848
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0256 - EPA 3545

Laboratory Control Sample Duplicate (B9I0256-BSD1)

Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: D.C.A.A.	*0.126*			mg/kg	*0.165*	*NA*	*76.2*	*50-125*			

Matrix Spike (B9I0256-MS1)

Source: 0904744-01RE1 Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.164	0.059	0.011	mg/kg dry	0.196	ND	83.6	30-130	NA	NA	
2,4,5-T.P.	0.162	0.059	0.0083	mg/kg dry	0.196	ND	82.6	40-130	NA	NA	
2,4-D	0.163	0.059	0.014	mg/kg dry	0.196	ND	83.0	30-125	NA	NA	
2,4-D.B.	0.157	0.059	0.013	mg/kg dry	0.196	ND	80.0	70-130	NA	NA	
Bentazon	0.152	0.059	0.011	mg/kg dry	0.196	ND	77.6	65-125	NA	NA	
Dicamba	0.159	0.059	0.0095	mg/kg dry	0.196	ND	80.8	30-120	NA	NA	
Dinoseb	0.106	0.059	0.0059	mg/kg dry	0.196	ND	54.2	30-120	NA	NA	
M.C.P.A.	0.162	0.059	0.017	mg/kg dry	0.196	ND	82.4	30-120	NA	NA	
Pentachlorophenol	0.152	0.059	0.0083	mg/kg dry	0.196	ND	77.6	50-120	NA	NA	
Picloram	<0.059	0.059	0.013	mg/kg dry	0.196	ND	NA	30-100	NA	NA	
Triclopyr	0.162	0.059	0.0071	mg/kg dry	0.196	ND	82.2	30-120	NA	NA	
Surrogate: D.C.A.A.	*0.161*			mg/kg dry	*0.196*	*NA*	*81.8*	*50-125*			

Matrix Spike Duplicate (B9I0256-MSD1)

Source: 0904744-01RE1 Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.144	0.059	0.011	mg/kg dry	0.196	ND	73.2	30-130	13.3	25	
2,4,5-T.P.	0.145	0.059	0.0083	mg/kg dry	0.196	ND	73.8	40-130	11.3	25	
2,4-D	0.155	0.059	0.014	mg/kg dry	0.196	ND	78.8	30-125	5.26	25	
2,4-D.B.	0.150	0.059	0.013	mg/kg dry	0.196	ND	76.2	70-130	4.93	25	
Bentazon	0.145	0.059	0.011	mg/kg dry	0.196	ND	73.6	65-125	5.36	25	
Dicamba	0.152	0.059	0.0095	mg/kg dry	0.196	ND	77.6	30-120	4.11	25	
Dinoseb	0.120	0.059	0.0059	mg/kg dry	0.196	ND	61.2	30-120	12.1	25	
M.C.P.A.	0.152	0.059	0.017	mg/kg dry	0.196	ND	77.6	30-120	6.07	25	
Pentachlorophenol	0.152	0.059	0.0083	mg/kg dry	0.196	ND	77.2	50-120	0.583	25	
Picloram	<0.059	0.059	0.013	mg/kg dry	0.196	ND	NA	30-100	NA	25	
Triclopyr	0.153	0.059	0.0071	mg/kg dry	0.196	ND	78.0	30-120	5.31	25	
Surrogate: D.C.A.A.	*0.149*			mg/kg dry	*0.196*	*NA*	*76.0*	*50-125*			

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UMP018652

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904848
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

0904848

Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number: 23/19-B05.S1.R1.300

Project Name: UMA SSI/RI

№ 28511

COC 1 of 1

Project Manager: JME

Project Contact: KJN

Sampled by: ESC

Laboratory: Braun

Number of Containers/Preservative — Water: Volatile Organics (Pres.)*1; Semivolatile Organics *2; Dissolved Metals (HNO_3); Total Metals (HNO_3); General (Unpreserved)*3; Cyanide (NaOH); Nutrients (H_2SO_4)*4; Oil and Grease (H_2SO_4); Sulfide (Zn Acetate); Methane; Bacteria ($Na_2S_2O_3$); DRO (HCl); List 1+2 Pesticides; OC Pesticides. Soil: VOCs (2-oz tared MeOH)*1; GRO, BTEX (2-oz tared MeOH)*1; DRO (2-oz tared) - 25 grams; Metals (2-oz unpreserved); SVOCs (2 or 4-oz unpres.)*2; % Moisture (plastic vial, unpres.); List 1+2 Pesticides; OC Pesticides; Total No. Of Containers

Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: OC	DRO (HCl)	List 1+2 Pesticides	OC Pesticides	Total No. Of Containers	Remarks
1. SOCS-GP1	9-2-09	0950	X		X			9	2	1	7	List 1+2 Pesticides, OC Pesticides, Nitrogen: See attached list
2. SOCS-Dup1	9-2-09	1200	X				X	4	2	1	7	"
3. SOCS-GP26(9-10)	9-2-09	1715		X	X						3	List 1+2 Pesticides, OC Pesticides, % Moisture: 1, 1, 1; See attached list
4.												
5.												
6.												
7.												
8.												Cooler #1: 10.7°C
9.												#2: 11.0°C
10.												#3: 8.4°C
11.												#4: 6.5°C
12.												

Common Parameter/Container - Preservation Key
*1 - Volatile Organics = BTEX, GRO, TPH, Full List
*2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide\Pesticide\PCBs
*3 - General = pH, Chloride, Flouride, Alkalinity, TSS, TDS, TS, Sulfate
*4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
Eileen Considine	Y N	9/3/09	1700	[signature]	9/4/09	1109
Relinquished By: Kelly Neppl	Y N	9/4/09	800	Received by:	Date	Time

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

H:\LG\STEFORMS\Chain Of Custody Form RLG Rev. 07/01/03

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Braun Intertec Corporation
11001 Hampshire Avenue S.
Minneapolis, MN 55438

Phone: 952.995.2000
Fax: 952.995.2020
Web: braunintertec.com

Ms. Kelly Neppl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

September 24, 2009

Work Order #: 0904849
(Revised)

RE: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300

Dear Kelly Neppl:

Braun Intertec Corporation received samples for the project identified above on September 04, 2009. Analytical results are summarized in the following report.

All routine quality assurance procedures were followed, unless otherwise noted.

Analytical results are reported on an "as received" basis unless otherwise noted. Where possible, the samples will be retained by the laboratory for 14 days following issuance of the initial final report. The samples will be disposed of or returned at that time. Arrangements can be made for extended storage by contacting me at this time.

We appreciate your decision to use Braun Intertec Corporation for this project. We are committed to being your vendor of choice to meet your analytical chemistry needs.

If you have any questions please contact me at the above phone number.

Sincerely,

Steven J. Albrecht

Steven J. Albrecht
Associate Principal

Certification/Accreditation Numbers

Minnesota Department of Health: 027-053-117 Wisconsin DNR: 999462640

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904849
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

How to Use this Report

In order to get the most out of the information presented in this report please refer to the following explanations as to how the data in this report is tied together and how some of the terms are defined.

Qualifiers and Abbreviations are defined in the following section. You will find these codes used throughout the report in headers and in note sections to designate a unique fact about the data to which they are associated.

The Case Narrative gives a "story" about the analysis and results. Here you will find greater elaboration on relevant qualifiers as well as an explanation of anything of particular note in the data. This is a discussion of the data in terms of quality control and chemistry. It is a summary of any deviations that could affect the usefulness of the data. This is not an interpretation as to how this information relates to regulatory compliance, toxicity, or hazardous characterization. These items are beyond the scope of this report.

The Sample Summary provides detail on sample receipt. The association between Client sample ID and the Laboratory sample ID are defined here; this information is valuable to have when discussing results with your project manager. Sample collection and receipt dates and times are provided here as well. General notes regarding the work order are also documented here. This is a mini "case narrative" that describes any anomalies regarding the condition of the samples upon arrival to the laboratory or special circumstances regarding the work order.

The Conditions Upon Receipt summarizes the results of specific checks that have been performed at sample receipt. This includes items like custody documentation, sample condition, and temperature at receipt. Each "cooler" is identified and the conditions associated with that cooler are documented. A "cooler" is defined as the larger container used to transport the individual samples. In most cases this is a standard recreational cooler but it can be a box, plastic bag, or other container.

The laboratory results are summarized in the following sections. Data is broken down into major categories for convenience. An example of such a category would be "Total Petroleum Hydrocarbons." Here you would find data that references the testing of such parameters as diesel range organics and gasoline range organics. Other categories are similarly mapped. The batch number is associated with each sample. This is important to evaluate Quality Control (QC) data. Surrogate results samples are provided with each sample. Laboratory control limits are provided for comparison (see below). The reference method is also identified. If a method is denoted with an "M" (e.g. EPA 1234(M)) this means that it has been modified. An explanation of the modification will be found in the Case Narrative. A result is given with appropriate units. If a soil sample is dry-weight corrected then the word "dry" will appear next to the units. If the word "dry" does not appear then the result is "as received."

The Method Reporting Limit (MRL) and Method Detection Limit (MDL) are provided. It is important to understand these terms. The MRL is a level that has been empirically verified to provide reliable quantitation of results. Results that are equal to or greater than this value will show up in bold. They are considered "hits." The MDL is a statistically derived number that indicates an estimated concentration at which an analyte can be detected above the noise level. If a result is less than the MRL but greater than the MDL then it is considered an estimate. Such a result is reported with a "J" flag denoting that it has been detected but that the result is an estimate.

In this specific report format, the majority of the analyses are reported without estimated concentrations less than the MRL. For these analyses, if a result is less than the MRL, the result is given as less than the MRL (e.g. if the MRL = 10 then a less than result would be given as "<10"). However, for the Organochlorine Pesticides in water and MDA List 1 Pesticides in water analyses, if a result is less than the MRL but greater than the MDL, then an estimated result is reported with a "J" flag. If a result for either of these two analyses is less than the MDL, then the result is given as less than the MDL.

The Quality Control (QC) samples are documented in the following section. Here you will find the preparation batches associated with each sample from the results section. The sample preparation method is also defined here. Accuracy is represented here in terms of a percent recovery as compared to a known value. Precision is represented as a relative percent difference between two duplicate sample aliquots. The laboratory control limits are provided as a means to evaluate the quality control data. If the result falls outside the laboratory control limits this simply means that it is outside what is typical for the laboratory and is noted accordingly. This does not mean that the data is invalid. Laboratory control limits are generally tighter than most program limits. This is a very important distinction. How the data is ultimately used determines its validity. Program requirements are defined in the Quality Assurance Project Plan (QAPP) governing the project. If your project manager is aware of your specific program requirements then a note will be made in the case narrative if the data fails to meet any of these requirements.

The last section contains copies of important documents and/or instrument printouts relevant to the report. This includes the chain of custody. It also may include items like chromatograms or spectra.

Please note that this report is paginated and must be reproduced in its entirety.

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904849
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Qualifiers and Abbreviations

qn	The spike recovery is outside of laboratory control limits for the matrix spike (MS) and/or the matrix spike duplicate (MSD).
COC	Chain of Custody
dry	Sample results reported on a dry weight basis
MDL	Method Detection Limit
MRL	Method Reporting Limit
NA	Not Applicable
ND	Analyte NOT DETECTED
NR	Not Reported
%Rec	Percent Recovery
RPD	Relative Percent Difference
VOC	Volatile Organic Compound

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC5-TT2-3'	0904849-01	Soil	09/03/09 17:00	09/04/09 11:09
SOC5-TT5-4'	0904849-02	Soil	09/03/09 15:00	09/04/09 11:09

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Conditions Upon Receipt

Cooler: Cooler 1

Temperature:	10.7 °C	**COC Included:**	Yes	**Custody Seals Used:**	No
Temperature Blank:	Yes	**COC Complete:**	Yes	**Custody Seals Intact:**	NA
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	No
Preservation Confirmed:	No	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

Cooler: Cooler 2

Temperature:	11.0 °C	**COC Included:**	Yes	**Custody Seals Used:**	No
Temperature Blank:	Yes	**COC Complete:**	Yes	**Custody Seals Intact:**	NA
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	No
Preservation Confirmed:	No	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

Cooler: Cooler 3

Temperature:	8.4 °C	**COC Included:**	Yes	**Custody Seals Used:**	No
Temperature Blank:	Yes	**COC Complete:**	Yes	**Custody Seals Intact:**	NA
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	No
Preservation Confirmed:	No	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

Cooler: Cooler 4

Temperature:	6.5 °C	**COC Included:**	Yes	**Custody Seals Used:**	No
Temperature Blank:	Yes	**COC Complete:**	Yes	**Custody Seals Intact:**	NA
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	No
Preservation Confirmed:	No	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-TT2-3'

0904849-01 (Soil)

9/3/09 17:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**97**	0.050	0.010	% Wt	B9I0167	9/9/09 13:04	9/9/09 13:04	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.025	0.025	0.0015	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:12	EPA 8081A	
4,4'-DDE	<0.025	0.025	0.0026	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:12	EPA 8081A	
4,4'-DDT	<0.025	0.025	0.0023	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:12	EPA 8081A	
Aldrin	<0.025	0.025	0.0032	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:12	EPA 8081A	
alpha-BHC	<0.025	0.025	0.0023	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:12	EPA 8081A	
alpha-Chlordane	<0.025	0.025	0.0020	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:12	EPA 8081A	
beta-BHC	<0.025	0.025	0.0023	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:12	EPA 8081A	
delta-BHC	<0.025	0.025	0.0018	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:12	EPA 8081A	
Dieldrin	<0.025	0.025	0.0022	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:12	EPA 8081A	
Endosulfan I	<0.025	0.025	0.0028	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:12	EPA 8081A	
Endosulfan II	<0.025	0.025	0.0021	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:12	EPA 8081A	
Endosulfan Sulfate	<0.025	0.025	0.0023	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:12	EPA 8081A	
Endrin	<0.025	0.025	0.0028	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:12	EPA 8081A	
Endrin Aldehyde	<0.025	0.025	0.0095	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:12	EPA 8081A	
Endrin Ketone	<0.025	0.025	0.0031	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:12	EPA 8081A	
gamma-BHC	<0.025	0.025	0.0025	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:12	EPA 8081A	
gamma-Chlordane	<0.025	0.025	0.0017	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:12	EPA 8081A	
Heptachlor	<0.025	0.025	0.0053	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:12	EPA 8081A	
Heptachlor Epoxide	<0.025	0.025	0.0042	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:12	EPA 8081A	
Methoxychlor	<0.025	0.025	0.0021	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:38	EPA 8081A	
Toxaphene	<0.49	0.49	0.095	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:12	EPA 8081A	
Surr: DBC	*84.7 %*	*Limits: 40-160%*			*B9I0141*	*9/8/09 14:58*	*9/10/09 6:12*	*EPA 8081A*	
Surr: TCMX	*77.7 %*	*Limits: 60-130%*			*B9I0141*	*9/8/09 14:58*	*9/10/09 6:12*	*EPA 8081A*	

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-TT2-3'

0904849-01 (Soil)

9/3/09 17:00

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.041	0.041	0.010	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:36	EPA 8270C	
Alachlor	<0.041	0.041	0.0072	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:36	EPA 8270C	
Atrazine	<0.041	0.041	0.010	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:36	EPA 8270C	
Chlorpyrifos	<0.041	0.041	0.0072	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:36	EPA 8270C	
Cyanazine	<0.041	0.041	0.0083	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:36	EPA 8270C	
Deisopropylatrazine	<0.041	0.041	0.0083	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:36	EPA 8270C	
Desethylatrazine	<0.041	0.041	0.011	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:36	EPA 8270C	
Dimethenamid	<0.041	0.041	0.0062	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:36	EPA 8270C	
EPTC	<0.041	0.041	0.0062	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:36	EPA 8270C	
Ethalfluralin	<0.041	0.041	0.014	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:36	EPA 8270C	
Fonofos	<0.041	0.041	0.0041	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:36	EPA 8270C	
Metolachlor	<0.041	0.041	0.0031	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:36	EPA 8270C	
Metribuzin	<0.041	0.041	0.0093	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:36	EPA 8270C	
Pendimethalin	<0.041	0.041	0.017	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:36	EPA 8270C	
Phorate	<0.041	0.041	0.0062	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:36	EPA 8270C	
Prometon	<0.041	0.041	0.0062	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:36	EPA 8270C	
Propachlor	<0.041	0.041	0.0093	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:36	EPA 8270C	
Propazine	<0.041	0.041	0.0072	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:36	EPA 8270C	
Simazine	<0.041	0.041	0.0093	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:36	EPA 8270C	
Terbufos	<0.041	0.041	0.0093	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:36	EPA 8270C	
Triallate	<0.041	0.041	0.0052	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:36	EPA 8270C	
Trifluralin	<0.041	0.041	0.014	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 0:36	EPA 8270C	
Surr: Atrazine-d5	*84.4 %*	*Limits: 50-125%*			*B9I0227*	*9/13/09 16:39*	*9/15/09 0:36*	*EPA 8270C*	
Surr: Diazinon-d10	*83.8 %*	*Limits: 35-120%*			*B9I0227*	*9/13/09 16:39*	*9/15/09 0:36*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904849
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-TT2-3'

0904849-01 (Soil)

9/3/09 17:00

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.051	0.051	0.0091	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 21:41	EPA 8270C	
2,4,5-T.P.	<0.051	0.051	0.0071	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 21:41	EPA 8270C	
2,4-D	<0.051	0.051	0.012	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 21:41	EPA 8270C	
2,4-D.B.	<0.051	0.051	0.011	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 21:41	EPA 8270C	
Bentazon	<0.051	0.051	0.0091	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 21:41	EPA 8270C	
Dicamba	<0.051	0.051	0.0081	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 21:41	EPA 8270C	
Dinoseb	<0.051	0.051	0.0051	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 21:41	EPA 8270C	
M.C.P.A.	<0.051	0.051	0.014	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 21:41	EPA 8270C	
Pentachlorophenol	<0.051	0.051	0.0071	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 21:41	EPA 8270C	
Picloram	<0.051	0.051	0.011	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 21:41	EPA 8270C	qn
Triclopyr	<0.051	0.051	0.0061	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 21:41	EPA 8270C	
Surr: D.C.A.A.	*73.0 %*	*Limits: 50-125%*			*B9I0256*	*9/14/09 9:00*	*9/17/09 21:41*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904849
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-TT5-4'

0904849-02 (Soil)

9/3/09 15:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**98**	0.050	0.010	% Wt	B9I0167	9/9/09 13:04	9/9/09 13:04	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.023	0.023	0.0014	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:38	EPA 8081A	
4,4'-DDE	<0.023	0.023	0.0024	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:38	EPA 8081A	
4,4'-DDT	<0.023	0.023	0.0022	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:38	EPA 8081A	
Aldrin	<0.023	0.023	0.0030	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:38	EPA 8081A	
alpha-BHC	<0.023	0.023	0.0022	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:38	EPA 8081A	
alpha-Chlordane	<0.023	0.023	0.0019	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:38	EPA 8081A	
beta-BHC	<0.023	0.023	0.0022	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:38	EPA 8081A	
delta-BHC	<0.023	0.023	0.0017	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:38	EPA 8081A	
Dieldrin	<0.023	0.023	0.0021	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:38	EPA 8081A	
Endosulfan I	<0.023	0.023	0.0026	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:38	EPA 8081A	
Endosulfan II	<0.023	0.023	0.0020	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:38	EPA 8081A	
Endosulfan Sulfate	<0.023	0.023	0.0022	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:38	EPA 8081A	
Endrin	<0.023	0.023	0.0026	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:38	EPA 8081A	
Endrin Aldehyde	<0.023	0.023	0.0090	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:38	EPA 8081A	
Endrin Ketone	<0.023	0.023	0.0029	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:38	EPA 8081A	
gamma-BHC	<0.023	0.023	0.0023	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:38	EPA 8081A	
gamma-Chlordane	<0.023	0.023	0.0016	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:38	EPA 8081A	
Heptachlor	<0.023	0.023	0.0050	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:38	EPA 8081A	
Heptachlor Epoxide	<0.023	0.023	0.0040	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:38	EPA 8081A	
Methoxychlor	<0.023	0.023	0.0020	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 7:04	EPA 8081A	
Toxaphene	<0.47	0.47	0.090	mg/kg dry	B9I0141	9/8/09 14:58	9/10/09 6:38	EPA 8081A	
Surr: DBC	*93.1 %*	*Limits: 40-160%*			*B9I0141*	*9/8/09 14:58*	*9/10/09 6:38*	*EPA 8081A*	
Surr: TCMX	*84.6 %*	*Limits: 60-130%*			*B9I0141*	*9/8/09 14:58*	*9/10/09 6:38*	*EPA 8081A*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904849
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-TT5-4'

0904849-02 (Soil)

9/3/09 15:00

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.041	0.041	0.010	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:01	EPA 8270C	
Alachlor	<0.041	0.041	0.0071	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:01	EPA 8270C	
Atrazine	<0.041	0.041	0.010	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:01	EPA 8270C	
Chlorpyrifos	<0.041	0.041	0.0071	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:01	EPA 8270C	
Cyanazine	<0.041	0.041	0.0082	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:01	EPA 8270C	
Deisopropylatrazine	<0.041	0.041	0.0082	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:01	EPA 8270C	
Desethylatrazine	<0.041	0.041	0.011	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:01	EPA 8270C	
Dimethenamid	<0.041	0.041	0.0061	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:01	EPA 8270C	
EPTC	<0.041	0.041	0.0061	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:01	EPA 8270C	
Ethalfluralin	<0.041	0.041	0.014	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:01	EPA 8270C	
Fonofos	<0.041	0.041	0.0041	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:01	EPA 8270C	
Metolachlor	<0.041	0.041	0.0031	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:01	EPA 8270C	
Metribuzin	<0.041	0.041	0.0092	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:01	EPA 8270C	
Pendimethalin	<0.041	0.041	0.016	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:01	EPA 8270C	
Phorate	<0.041	0.041	0.0061	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:01	EPA 8270C	
Prometon	<0.041	0.041	0.0061	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:01	EPA 8270C	
Propachlor	<0.041	0.041	0.0092	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:01	EPA 8270C	
Propazine	<0.041	0.041	0.0071	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:01	EPA 8270C	
Simazine	<0.041	0.041	0.0092	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:01	EPA 8270C	
Terbufos	<0.041	0.041	0.0092	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:01	EPA 8270C	
Triallate	<0.041	0.041	0.0051	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:01	EPA 8270C	
Trifluralin	<0.041	0.041	0.014	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:01	EPA 8270C	
Surr: Atrazine-d5	*82.5 %*	*Limits: 50-125%*			*B9I0227*	*9/13/09 16:39*	*9/15/09 1:01*	*EPA 8270C*	
Surr: Diazinon-d10	*79.1 %*	*Limits: 35-120%*			*B9I0227*	*9/13/09 16:39*	*9/15/09 1:01*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904849
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-TT5-4'

0904849-02 (Soil)

9/3/09 15:00

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.051	0.051	0.0092	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 22:06	EPA 8270C	
2,4,5-T.P.	<0.051	0.051	0.0071	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 22:06	EPA 8270C	
2,4-D	<0.051	0.051	0.012	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 22:06	EPA 8270C	
2,4-D.B.	<0.051	0.051	0.011	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 22:06	EPA 8270C	
Bentazon	<0.051	0.051	0.0092	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 22:06	EPA 8270C	
Dicamba	<0.051	0.051	0.0082	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 22:06	EPA 8270C	
Dinoseb	<0.051	0.051	0.0051	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 22:06	EPA 8270C	
M.C.P.A.	<0.051	0.051	0.014	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 22:06	EPA 8270C	
Pentachlorophenol	<0.051	0.051	0.0071	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 22:06	EPA 8270C	
Picloram	<0.051	0.051	0.011	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 22:06	EPA 8270C	qn
Triclopyr	<0.051	0.051	0.0061	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 22:06	EPA 8270C	
Surr: D.C.A.A.	*61.8 %*	*Limits: 50-125%*			*B9I0256*	*9/14/09 9:00*	*9/17/09 22:06*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904849
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Classical Chemistry Parameters - Quality Control

Batch B9I0167 - % Solids

Method Blank (B9I0167-BLK1)

Prepared & Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	<0.050	0.050	0.010	% Wt	NA	NA	NA	NA	NA	NA	

Duplicate (B9I0167-DUP1)

Source: 0904827-02 Prepared & Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	86.7	0.050	0.010	% Wt	NA	85.2	NA	NA	1.75	20	

Standard Reference Material (B9I0167-SRM1)

Prepared & Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	89.1			% Wt	91.3	NA	97.5	90-110	NA	NA	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0141 - EPA 3545

Method Blank (B9I0141-BLK1)

Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	<0.025	0.025	0.0015	mg/kg	NA	NA	NA	NA	NA	NA	
4,4'-DDE	<0.025	0.025	0.0026	mg/kg	NA	NA	NA	NA	NA	NA	
4,4'-DDT	<0.025	0.025	0.0023	mg/kg	NA	NA	NA	NA	NA	NA	
Aldrin	<0.025	0.025	0.0032	mg/kg	NA	NA	NA	NA	NA	NA	
alpha-BHC	<0.025	0.025	0.0023	mg/kg	NA	NA	NA	NA	NA	NA	
alpha-Chlordane	<0.025	0.025	0.0020	mg/kg	NA	NA	NA	NA	NA	NA	
beta-BHC	<0.025	0.025	0.0023	mg/kg	NA	NA	NA	NA	NA	NA	
delta-BHC	<0.025	0.025	0.0018	mg/kg	NA	NA	NA	NA	NA	NA	
Dieldrin	<0.025	0.025	0.0022	mg/kg	NA	NA	NA	NA	NA	NA	
Endosulfan I	<0.025	0.025	0.0028	mg/kg	NA	NA	NA	NA	NA	NA	
Endosulfan II	<0.025	0.025	0.0021	mg/kg	NA	NA	NA	NA	NA	NA	
Endosulfan Sulfate	<0.025	0.025	0.0023	mg/kg	NA	NA	NA	NA	NA	NA	
Endrin	<0.025	0.025	0.0028	mg/kg	NA	NA	NA	NA	NA	NA	
Endrin Aldehyde	<0.025	0.025	0.0096	mg/kg	NA	NA	NA	NA	NA	NA	
Endrin Ketone	<0.025	0.025	0.0031	mg/kg	NA	NA	NA	NA	NA	NA	
gamma-BHC	<0.025	0.025	0.0025	mg/kg	NA	NA	NA	NA	NA	NA	
gamma-Chlordane	<0.025	0.025	0.0017	mg/kg	NA	NA	NA	NA	NA	NA	
Heptachlor	<0.025	0.025	0.0054	mg/kg	NA	NA	NA	NA	NA	NA	
Heptachlor Epoxide	<0.025	0.025	0.0043	mg/kg	NA	NA	NA	NA	NA	NA	
Methoxychlor	<0.025	0.025	0.0021	mg/kg	NA	NA	NA	NA	NA	NA	
Toxaphene	<0.50	0.50	0.096	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: DBC	*0.206*			mg/kg	*0.248*	*NA*	*83.3*	*40-160*			
Surrogate: TCMX	*0.200*			mg/kg	*0.248*	*NA*	*80.8*	*60-130*			

Laboratory Control Sample (B9I0141-BS1)

Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.213	0.024	0.0014	mg/kg	0.237	NA	89.8	70-130	NA	NA	
4,4'-DDE	0.221	0.024	0.0025	mg/kg	0.237	NA	93.1	70-130	NA	NA	
4,4'-DDT	0.269	0.024	0.0022	mg/kg	0.237	NA	113	70-130	NA	NA	
Aldrin	0.226	0.024	0.0030	mg/kg	0.237	NA	95.3	70-130	NA	NA	
alpha-BHC	0.231	0.024	0.0022	mg/kg	0.237	NA	97.7	70-130	NA	NA	
alpha-Chlordane	0.225	0.024	0.0019	mg/kg	0.237	NA	94.9	70-130	NA	NA	
beta-BHC	0.234	0.024	0.0022	mg/kg	0.237	NA	98.7	70-130	NA	NA	
delta-BHC	0.229	0.024	0.0017	mg/kg	0.237	NA	96.4	70-130	NA	NA	
Dieldrin	0.220	0.024	0.0021	mg/kg	0.237	NA	92.8	70-130	NA	NA	
Endosulfan I	0.224	0.024	0.0027	mg/kg	0.237	NA	94.7	70-130	NA	NA	
Endosulfan II	0.207	0.024	0.0020	mg/kg	0.237	NA	87.5	70-130	NA	NA	
Endosulfan Sulfate	0.220	0.024	0.0022	mg/kg	0.237	NA	93.0	70-130	NA	NA	
Endrin	0.212	0.024	0.0027	mg/kg	0.237	NA	89.3	70-130	NA	NA	
Endrin Aldehyde	0.232	0.024	0.0091	mg/kg	0.237	NA	97.7	70-130	NA	NA	
Endrin Ketone	0.262	0.024	0.0029	mg/kg	0.237	NA	111	70-130	NA	NA	
gamma-BHC	0.236	0.024	0.0024	mg/kg	0.237	NA	99.6	70-130	NA	NA	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0141 - EPA 3545

Laboratory Control Sample (B9I0141-BS1)

Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
gamma-Chlordane	0.229	0.024	0.0016	mg/kg	0.237	NA	96.5	70-130	NA	NA	
Heptachlor	0.247	0.024	0.0051	mg/kg	0.237	NA	104	70-130	NA	NA	
Heptachlor Epoxide	0.227	0.024	0.0041	mg/kg	0.237	NA	95.9	70-130	NA	NA	
Methoxychlor	0.259	0.024	0.0020	mg/kg	0.237	NA	109	70-130	NA	NA	
Surrogate: DBC	*0.219*			mg/kg	*0.237*	*NA*	*92.5*	*40-160*			
Surrogate: TCMX	*0.213*			mg/kg	*0.237*	*NA*	*90.0*	*60-130*			

Laboratory Control Sample Duplicate (B9I0141-BSD1)

Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.240	0.024	0.0015	mg/kg	0.244	NA	98.6	70-130	12.1	25	
4,4'-DDE	0.245	0.024	0.0025	mg/kg	0.244	NA	100	70-130	10.3	25	
4,4'-DDT	0.276	0.024	0.0022	mg/kg	0.244	NA	113	70-130	2.78	25	
Aldrin	0.251	0.024	0.0031	mg/kg	0.244	NA	103	70-130	10.6	25	
alpha-BHC	0.258	0.024	0.0022	mg/kg	0.244	NA	106	70-130	10.8	25	
alpha-Chlordane	0.248	0.024	0.0019	mg/kg	0.244	NA	102	70-130	9.89	25	
beta-BHC	0.261	0.024	0.0022	mg/kg	0.244	NA	107	70-130	11.2	25	
delta-BHC	0.257	0.024	0.0018	mg/kg	0.244	NA	106	70-130	11.8	25	
Dieldrin	0.248	0.024	0.0021	mg/kg	0.244	NA	102	70-130	11.8	25	
Endosulfan I	0.245	0.024	0.0027	mg/kg	0.244	NA	101	70-130	8.95	25	
Endosulfan II	0.231	0.024	0.0020	mg/kg	0.244	NA	95.0	70-130	11.0	25	
Endosulfan Sulfate	0.236	0.024	0.0022	mg/kg	0.244	NA	96.8	70-130	6.80	25	
Endrin	0.236	0.024	0.0027	mg/kg	0.244	NA	97.0	70-130	11.0	25	
Endrin Aldehyde	0.249	0.024	0.0094	mg/kg	0.244	NA	102	70-130	7.21	25	
Endrin Ketone	0.254	0.024	0.0030	mg/kg	0.244	NA	104	70-130	3.01	25	
gamma-BHC	0.263	0.024	0.0024	mg/kg	0.244	NA	108	70-130	10.8	25	
gamma-Chlordane	0.254	0.024	0.0017	mg/kg	0.244	NA	104	70-130	10.3	25	
Heptachlor	0.272	0.024	0.0053	mg/kg	0.244	NA	112	70-130	9.61	25	
Heptachlor Epoxide	0.253	0.024	0.0042	mg/kg	0.244	NA	104	70-130	10.6	25	
Methoxychlor	0.265	0.024	0.0020	mg/kg	0.244	NA	109	70-130	2.12	25	
Surrogate: DBC	*0.228*			mg/kg	*0.244*	*NA*	*93.4*	*40-160*			
Surrogate: TCMX	*0.233*			mg/kg	*0.244*	*NA*	*95.7*	*60-130*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904849
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0141 - EPA 3545

Matrix Spike (B9I0141-MS1)

Source: 0904744-01 Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.211	0.030	0.0018	mg/kg dry	0.295	ND	71.3	50-130	NA	NA	
4,4'-DDE	0.215	0.030	0.0031	mg/kg dry	0.295	ND	72.9	50-130	NA	NA	
4,4'-DDT	0.250	0.030	0.0027	mg/kg dry	0.295	ND	84.7	50-130	NA	NA	
Aldrin	0.223	0.030	0.0038	mg/kg dry	0.295	ND	75.5	50-130	NA	NA	
alpha-BHC	0.236	0.030	0.0027	mg/kg dry	0.295	ND	79.9	50-130	NA	NA	
alpha-Chlordane	0.221	0.030	0.0024	mg/kg dry	0.295	ND	75.0	50-130	NA	NA	
beta-BHC	0.238	0.030	0.0027	mg/kg dry	0.295	ND	80.5	50-130	NA	NA	
delta-BHC	0.230	0.030	0.0021	mg/kg dry	0.295	ND	77.7	50-130	NA	NA	
Dieldrin	0.205	0.030	0.0026	mg/kg dry	0.295	ND	69.5	50-130	NA	NA	
Endosulfan I	0.223	0.030	0.0033	mg/kg dry	0.295	ND	75.5	50-130	NA	NA	
Endosulfan II	0.200	0.030	0.0025	mg/kg dry	0.295	ND	67.7	50-130	NA	NA	
Endosulfan Sulfate	0.220	0.030	0.0027	mg/kg dry	0.295	ND	74.7	50-130	NA	NA	
Endrin	0.207	0.030	0.0033	mg/kg dry	0.295	ND	70.1	50-130	NA	NA	
Endrin Aldehyde	0.178	0.030	0.011	mg/kg dry	0.295	ND	60.4	50-130	NA	NA	
Endrin Ketone	0.292	0.030	0.0037	mg/kg dry	0.295	ND	98.9	50-130	NA	NA	
gamma-BHC	0.240	0.030	0.0030	mg/kg dry	0.295	ND	81.2	50-130	NA	NA	
gamma-Chlordane	0.225	0.030	0.0020	mg/kg dry	0.295	ND	76.0	50-130	NA	NA	
Heptachlor	0.238	0.030	0.0064	mg/kg dry	0.295	ND	80.6	50-130	NA	NA	
Heptachlor Epoxide	0.227	0.030	0.0051	mg/kg dry	0.295	ND	76.8	50-130	NA	NA	
Methoxychlor	0.249	0.030	0.0025	mg/kg dry	0.295	ND	84.2	50-130	NA	NA	
Surrogate: DBC	*0.226*			mg/kg dry	*0.295*	*NA*	*76.6*	*40-160*			
Surrogate: TCMX	*0.214*			mg/kg dry	*0.295*	*NA*	*72.5*	*60-130*			

Matrix Spike Duplicate (B9I0141-MSD1)

Source: 0904744-01 Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.216	0.028	0.0017	mg/kg dry	0.278	ND	77.8	50-130	2.64	25	
4,4'-DDE	0.216	0.028	0.0029	mg/kg dry	0.278	ND	77.9	50-130	0.544	25	
4,4'-DDT	0.261	0.028	0.0026	mg/kg dry	0.278	ND	93.9	50-130	4.28	25	
Aldrin	0.232	0.028	0.0036	mg/kg dry	0.278	ND	83.5	50-130	4.03	25	
alpha-BHC	0.243	0.028	0.0026	mg/kg dry	0.278	ND	87.3	50-130	2.82	25	
alpha-Chlordane	0.221	0.028	0.0022	mg/kg dry	0.278	ND	79.6	50-130	0.114	25	
beta-BHC	0.244	0.028	0.0026	mg/kg dry	0.278	ND	87.9	50-130	2.74	25	
delta-BHC	0.232	0.028	0.0020	mg/kg dry	0.278	ND	83.6	50-130	1.23	25	
Dieldrin	0.217	0.028	0.0024	mg/kg dry	0.278	ND	78.0	50-130	5.51	25	
Endosulfan I	0.226	0.028	0.0031	mg/kg dry	0.278	ND	81.5	50-130	1.52	25	
Endosulfan II	0.202	0.028	0.0023	mg/kg dry	0.278	ND	72.8	50-130	1.24	25	
Endosulfan Sulfate	0.222	0.028	0.0026	mg/kg dry	0.278	ND	80.0	50-130	0.804	25	
Endrin	0.211	0.028	0.0031	mg/kg dry	0.278	ND	75.9	50-130	1.80	25	
Endrin Aldehyde	0.158	0.028	0.011	mg/kg dry	0.278	ND	56.9	50-130	12.0	25	
Endrin Ketone	0.279	0.028	0.0034	mg/kg dry	0.278	ND	100	50-130	4.75	25	
gamma-BHC	0.248	0.028	0.0028	mg/kg dry	0.278	ND	89.1	50-130	3.21	25	
gamma-Chlordane	0.230	0.028	0.0019	mg/kg dry	0.278	ND	82.7	50-130	2.27	25	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904849
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0141 - EPA 3545

Matrix Spike Duplicate (B9I0141-MSD1) **Source: 0904744-01** Prepared: 09/08/09 Analyzed: 09/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Heptachlor	0.249	0.028	0.0060	mg/kg dry	0.278	ND	89.8	50-130	4.68	25	
Heptachlor Epoxide	0.232	0.028	0.0048	mg/kg dry	0.278	ND	83.4	50-130	2.15	25	
Methoxychlor	0.259	0.028	0.0023	mg/kg dry	0.278	ND	93.1	50-130	3.96	25	
Surrogate: DBC	*0.224*			mg/kg dry	*0.278*	*NA*	*80.5*	*40-160*			
Surrogate: TCMX	*0.217*			mg/kg dry	*0.278*	*NA*	*78.0*	*60-130*			

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0227 - EPA 3545

Method Blank (B9I0227-BLK1)

Prepared: 09/13/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	<0.040	0.040	0.010	mg/kg	NA	NA	NA	NA	NA	NA	
Alachlor	<0.040	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Atrazine	<0.040	0.040	0.010	mg/kg	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	<0.040	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Cyanazine	<0.040	0.040	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	<0.040	0.040	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Desethylatrazine	<0.040	0.040	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Dimethenamid	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
EPTC	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Ethalfluralin	<0.040	0.040	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Fonofos	<0.040	0.040	0.0040	mg/kg	NA	NA	NA	NA	NA	NA	
Metolachlor	<0.040	0.040	0.0030	mg/kg	NA	NA	NA	NA	NA	NA	
Metribuzin	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Pendimethalin	<0.040	0.040	0.016	mg/kg	NA	NA	NA	NA	NA	NA	
Phorate	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Prometon	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Propachlor	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Propazine	<0.040	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Simazine	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Terbufos	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Triallate	<0.040	0.040	0.0050	mg/kg	NA	NA	NA	NA	NA	NA	
Trifluralin	<0.040	0.040	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: Atrazine-d5	*0.232*			mg/kg	*0.329*	*NA*	*70.6*	*50-125*			
Surrogate: Diazinon-d10	*0.246*			mg/kg	*0.329*	*NA*	*74.6*	*35-120*			

Laboratory Control Sample (B9I0227-BS1)

Prepared: 09/13/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.302	0.040	0.010	mg/kg	0.332	NA	91.1	70-120	NA	NA	
Alachlor	0.299	0.040	0.0070	mg/kg	0.332	NA	90.2	70-120	NA	NA	
Atrazine	0.294	0.040	0.010	mg/kg	0.332	NA	88.7	70-120	NA	NA	
Chlorpyrifos	0.293	0.040	0.0070	mg/kg	0.332	NA	88.4	70-120	NA	NA	
Cyanazine	0.306	0.040	0.0080	mg/kg	0.332	NA	92.3	70-120	NA	NA	
Deisopropylatrazine	0.274	0.040	0.0080	mg/kg	0.332	NA	82.6	65-115	NA	NA	
Desethylatrazine	0.301	0.040	0.011	mg/kg	0.332	NA	90.7	70-120	NA	NA	
Dimethenamid	0.296	0.040	0.0060	mg/kg	0.332	NA	89.3	70-120	NA	NA	
EPTC	0.284	0.040	0.0060	mg/kg	0.332	NA	85.7	60-105	NA	NA	
Ethalfluralin	0.276	0.040	0.014	mg/kg	0.332	NA	83.2	70-120	NA	NA	
Fonofos	0.298	0.040	0.0040	mg/kg	0.332	NA	89.8	70-115	NA	NA	
Metolachlor	0.300	0.040	0.0030	mg/kg	0.332	NA	90.6	70-120	NA	NA	
Metribuzin	0.297	0.040	0.0090	mg/kg	0.332	NA	89.7	70-120	NA	NA	
Pendimethalin	0.307	0.040	0.016	mg/kg	0.332	NA	92.7	70-120	NA	NA	
Phorate	0.305	0.040	0.0060	mg/kg	0.332	NA	91.9	70-115	NA	NA	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904849
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0227 - EPA 3545

Laboratory Control Sample (B9I0227-BS1)

Prepared: 09/13/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	0.299	0.040	0.0060	mg/kg	0.332	NA	90.2	70-120	NA	NA	
Propachlor	0.284	0.040	0.0090	mg/kg	0.332	NA	85.8	70-115	NA	NA	
Propazine	0.297	0.040	0.0070	mg/kg	0.332	NA	89.7	70-120	NA	NA	
Simazine	0.262	0.040	0.0090	mg/kg	0.332	NA	78.9	60-115	NA	NA	
Terbufos	0.293	0.040	0.0090	mg/kg	0.332	NA	88.5	70-115	NA	NA	
Triallate	0.285	0.040	0.0050	mg/kg	0.332	NA	86.0	70-115	NA	NA	
Trifluralin	0.284	0.040	0.014	mg/kg	0.332	NA	85.8	70-115	NA	NA	
Surrogate: Atrazine-d5	*0.259*			mg/kg	*0.332*	*NA*	*78.2*	*50-125*			
Surrogate: Diazinon-d10	*0.264*			mg/kg	*0.332*	*NA*	*79.7*	*35-120*			

Laboratory Control Sample Duplicate (B9I0227-BSD1)

Prepared: 09/13/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.298	0.040	0.010	mg/kg	0.329	NA	90.4	70-120	1.47	20	
Alachlor	0.304	0.040	0.0070	mg/kg	0.329	NA	92.2	70-120	1.50	20	
Atrazine	0.298	0.040	0.010	mg/kg	0.329	NA	90.4	70-120	1.20	20	
Chlorpyrifos	0.294	0.040	0.0070	mg/kg	0.329	NA	89.2	70-120	0.207	20	
Cyanazine	0.308	0.040	0.0080	mg/kg	0.329	NA	93.5	70-120	0.598	20	
Deisopropylatrazine	0.279	0.040	0.0080	mg/kg	0.329	NA	84.7	65-115	1.82	20	
Desethylatrazine	0.298	0.040	0.011	mg/kg	0.329	NA	90.6	70-120	0.804	20	
Dimethenamid	0.308	0.040	0.0060	mg/kg	0.329	NA	93.6	70-120	4.01	20	
EPTC	0.269	0.040	0.0060	mg/kg	0.329	NA	81.7	60-105	5.47	20	
Ethalfluralin	0.302	0.040	0.014	mg/kg	0.329	NA	91.7	70-120	9.03	20	
Fonofos	0.300	0.040	0.0040	mg/kg	0.329	NA	91.1	70-115	0.743	20	
Metolachlor	0.307	0.040	0.0030	mg/kg	0.329	NA	93.3	70-120	2.24	20	
Metribuzin	0.299	0.040	0.0090	mg/kg	0.329	NA	90.7	70-120	0.415	20	
Pendimethalin	0.310	0.040	0.016	mg/kg	0.329	NA	94.1	70-120	0.805	20	
Phorate	0.304	0.040	0.0060	mg/kg	0.329	NA	92.4	70-115	0.151	20	
Prometon	0.311	0.040	0.0060	mg/kg	0.329	NA	94.5	70-120	3.96	20	
Propachlor	0.288	0.040	0.0090	mg/kg	0.329	NA	87.5	70-115	1.27	20	
Propazine	0.309	0.040	0.0070	mg/kg	0.329	NA	93.9	70-120	3.88	20	
Simazine	0.273	0.040	0.0090	mg/kg	0.329	NA	82.9	60-115	4.25	20	
Terbufos	0.296	0.040	0.0090	mg/kg	0.329	NA	90.0	70-115	0.987	20	
Triallate	0.290	0.040	0.0050	mg/kg	0.329	NA	88.1	70-115	1.72	20	
Trifluralin	0.278	0.040	0.014	mg/kg	0.329	NA	84.5	70-115	2.22	20	
Surrogate: Atrazine-d5	*0.261*			mg/kg	*0.329*	*NA*	*79.4*	*50-125*			
Surrogate: Diazinon-d10	*0.268*			mg/kg	*0.329*	*NA*	*81.3*	*35-120*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904849
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0227 - EPA 3545

Matrix Spike (B9I0227-MS1)

Source: 0904744-01 Prepared: 09/13/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.356	0.048	0.012	mg/kg dry	0.396	ND	89.8	50-120	NA	NA	
Alachlor	0.366	0.048	0.0083	mg/kg dry	0.396	ND	92.3	55-120	NA	NA	
Atrazine	0.375	0.048	0.012	mg/kg dry	0.396	ND	94.7	60-120	NA	NA	
Chlorpyrifos	0.313	0.048	0.0083	mg/kg dry	0.396	ND	79.0	40-125	NA	NA	
Cyanazine	0.390	0.048	0.0095	mg/kg dry	0.396	ND	98.3	55-125	NA	NA	
Deisopropylatrazine	0.334	0.048	0.0095	mg/kg dry	0.396	ND	84.4	55-120	NA	NA	
Desethylatrazine	0.379	0.048	0.013	mg/kg dry	0.396	ND	95.6	60-125	NA	NA	
Dimethenamid	0.384	0.048	0.0071	mg/kg dry	0.396	ND	96.9	55-120	NA	NA	
EPTC	0.363	0.048	0.0071	mg/kg dry	0.396	ND	91.6	40-105	NA	NA	
Ethalfluralin	0.327	0.048	0.017	mg/kg dry	0.396	ND	82.6	40-120	NA	NA	
Fonofos	0.356	0.048	0.0048	mg/kg dry	0.396	ND	89.9	45-115	NA	NA	
Metolachlor	0.401	0.048	0.0036	mg/kg dry	0.396	0.0233	95.2	50-125	NA	NA	
Metribuzin	0.356	0.048	0.011	mg/kg dry	0.396	ND	89.9	55-125	NA	NA	
Pendimethalin	0.349	0.048	0.019	mg/kg dry	0.396	ND	88.0	40-120	NA	NA	
Phorate	0.357	0.048	0.0071	mg/kg dry	0.396	ND	90.2	40-115	NA	NA	
Prometon	0.345	0.048	0.0071	mg/kg dry	0.396	ND	87.0	60-125	NA	NA	
Propachlor	0.379	0.048	0.011	mg/kg dry	0.396	ND	95.7	60-115	NA	NA	
Propazine	0.386	0.048	0.0083	mg/kg dry	0.396	ND	97.5	55-120	NA	NA	
Simazine	0.336	0.048	0.011	mg/kg dry	0.396	ND	84.8	50-120	NA	NA	
Terbufos	0.344	0.048	0.011	mg/kg dry	0.396	ND	86.8	40-120	NA	NA	
Triallate	0.327	0.048	0.0059	mg/kg dry	0.396	ND	82.6	40-115	NA	NA	
Trifluralin	0.319	0.048	0.017	mg/kg dry	0.396	ND	80.6	40-115	NA	NA	
Surrogate: Atrazine-d5	*0.350*			mg/kg dry	*0.396*	*NA*	*88.3*	*50-125*			
Surrogate: Diazinon-d10	*0.321*			mg/kg dry	*0.396*	*NA*	*80.9*	*35-120*			

Matrix Spike Duplicate (B9I0227-MSD1)

Source: 0904744-01 Prepared: 09/13/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.330	0.048	0.012	mg/kg dry	0.395	ND	83.6	50-120	7.48	25	
Alachlor	0.336	0.048	0.0083	mg/kg dry	0.395	ND	85.0	55-120	8.57	25	
Atrazine	0.350	0.048	0.012	mg/kg dry	0.395	ND	88.5	60-120	7.10	25	
Chlorpyrifos	0.294	0.048	0.0083	mg/kg dry	0.395	ND	74.4	40-125	6.33	25	
Cyanazine	0.354	0.048	0.0095	mg/kg dry	0.395	ND	89.7	55-125	9.48	25	
Deisopropylatrazine	0.329	0.048	0.0095	mg/kg dry	0.395	ND	83.2	55-120	1.76	25	
Desethylatrazine	0.353	0.048	0.013	mg/kg dry	0.395	ND	89.3	60-125	7.15	25	
Dimethenamid	0.357	0.048	0.0071	mg/kg dry	0.395	ND	90.5	55-120	7.16	25	
EPTC	0.331	0.048	0.0071	mg/kg dry	0.395	ND	83.7	40-105	9.34	25	
Ethalfluralin	0.308	0.048	0.017	mg/kg dry	0.395	ND	77.9	40-120	6.19	25	
Fonofos	0.326	0.048	0.0048	mg/kg dry	0.395	ND	82.5	45-115	8.92	25	
Metolachlor	0.362	0.048	0.0036	mg/kg dry	0.395	0.0233	85.8	50-125	10.1	25	
Metribuzin	0.336	0.048	0.011	mg/kg dry	0.395	ND	85.0	55-125	5.94	25	
Pendimethalin	0.308	0.048	0.019	mg/kg dry	0.395	ND	77.9	40-120	12.5	25	
Phorate	0.323	0.048	0.0071	mg/kg dry	0.395	ND	81.7	40-115	10.2	25	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904849
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0227 - EPA 3545

Matrix Spike Duplicate (B9I0227-MSD1) **Source: 0904744-01** Prepared: 09/13/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	0.333	0.048	0.0071	mg/kg dry	0.395	ND	84.3	60-125	3.48	25	
Propachlor	0.350	0.048	0.011	mg/kg dry	0.395	ND	88.5	60-115	8.15	25	
Propazine	0.357	0.048	0.0083	mg/kg dry	0.395	ND	90.4	55-120	7.89	25	
Simazine	0.323	0.048	0.011	mg/kg dry	0.395	ND	81.8	50-120	3.93	25	
Terbufos	0.309	0.048	0.011	mg/kg dry	0.395	ND	78.3	40-120	10.6	25	
Triallate	0.298	0.048	0.0059	mg/kg dry	0.395	ND	75.4	40-115	9.45	25	
Trifluralin	0.299	0.048	0.017	mg/kg dry	0.395	ND	75.6	40-115	6.73	25	
Surrogate: Atrazine-d5	*0.312*			mg/kg dry	*0.395*	*NA*	*79.0*	*50-125*			
Surrogate: Diazinon-d10	*0.307*			mg/kg dry	*0.395*	*NA*	*77.7*	*35-120*			

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0256 - EPA 3545

Method Blank (B9I0256-BLK1)

Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	<0.050	0.050	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	<0.050	0.050	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D	<0.050	0.050	0.012	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D.B.	<0.050	0.050	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Bentazon	<0.050	0.050	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Dicamba	<0.050	0.050	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Dinoseb	<0.050	0.050	0.0050	mg/kg	NA	NA	NA	NA	NA	NA	
M.C.P.A.	<0.050	0.050	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	<0.050	0.050	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Picloram	<0.050	0.050	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Triclopyr	<0.050	0.050	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	*0.112*			mg/kg	*0.166*	*NA*	*67.2*	*50-125*			

Laboratory Control Sample (B9I0256-BS1)

Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.128	0.050	0.0090	mg/kg	0.164	NA	77.8	60-125	NA	NA	
2,4,5-T.P.	0.127	0.050	0.0070	mg/kg	0.164	NA	77.4	65-125	NA	NA	
2,4-D	0.126	0.050	0.012	mg/kg	0.164	NA	76.6	60-125	NA	NA	
2,4-D.B.	0.131	0.050	0.011	mg/kg	0.164	NA	79.6	70-130	NA	NA	
Bentazon	0.127	0.050	0.0090	mg/kg	0.164	NA	77.2	65-125	NA	NA	
Dicamba	0.123	0.050	0.0080	mg/kg	0.164	NA	75.2	60-120	NA	NA	
Dinoseb	0.0926	0.050	0.0050	mg/kg	0.164	NA	56.4	30-120	NA	NA	
M.C.P.A.	0.127	0.050	0.014	mg/kg	0.164	NA	77.2	60-115	NA	NA	
Pentachlorophenol	0.111	0.050	0.0070	mg/kg	0.164	NA	67.6	50-120	NA	NA	
Picloram	0.0725	0.050	0.011	mg/kg	0.164	NA	44.2	30-100	NA	NA	
Triclopyr	0.126	0.050	0.0060	mg/kg	0.164	NA	77.0	65-120	NA	NA	
Surrogate: D.C.A.A.	*0.130*			mg/kg	*0.164*	*NA*	*79.0*	*50-125*			

Laboratory Control Sample Duplicate (B9I0256-BSD1)

Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.133	0.050	0.0090	mg/kg	0.165	NA	80.6	60-125	4.13	25	
2,4,5-T.P.	0.134	0.050	0.0070	mg/kg	0.165	NA	81.4	65-125	5.63	25	
2,4-D	0.141	0.050	0.012	mg/kg	0.165	NA	85.6	60-125	11.7	25	
2,4-D.B.	0.136	0.050	0.011	mg/kg	0.165	NA	82.4	70-130	4.05	25	
Bentazon	0.126	0.050	0.0090	mg/kg	0.165	NA	76.6	65-125	0.188	25	
Dicamba	0.131	0.050	0.0080	mg/kg	0.165	NA	79.4	60-120	6.03	25	
Dinoseb	0.102	0.050	0.0050	mg/kg	0.165	NA	61.8	30-120	9.73	25	
M.C.P.A.	0.133	0.050	0.014	mg/kg	0.165	NA	80.6	60-115	4.90	25	
Pentachlorophenol	0.124	0.050	0.0070	mg/kg	0.165	NA	75.2	50-120	11.2	25	
Picloram	0.0918	0.050	0.011	mg/kg	0.165	NA	55.6	30-100	23.4	25	
Triclopyr	0.131	0.050	0.0060	mg/kg	0.165	NA	79.4	65-120	3.66	25	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904849
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0256 - EPA 3545

Laboratory Control Sample Duplicate (B9I0256-BSD1)

Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: D.C.A.A.	*0.126*			mg/kg	*0.165*	*NA*	*76.2*	*50-125*			

Matrix Spike (B9I0256-MS1)

Source: 0904744-01RE1 Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.164	0.059	0.011	mg/kg dry	0.196	ND	83.6	30-130	NA	NA	
2,4,5-T.P.	0.162	0.059	0.0083	mg/kg dry	0.196	ND	82.6	40-130	NA	NA	
2,4-D	0.163	0.059	0.014	mg/kg dry	0.196	ND	83.0	30-125	NA	NA	
2,4-D.B.	0.157	0.059	0.013	mg/kg dry	0.196	ND	80.0	70-130	NA	NA	
Bentazon	0.152	0.059	0.011	mg/kg dry	0.196	ND	77.6	65-125	NA	NA	
Dicamba	0.159	0.059	0.0095	mg/kg dry	0.196	ND	80.8	30-120	NA	NA	
Dinoseb	0.106	0.059	0.0059	mg/kg dry	0.196	ND	54.2	30-120	NA	NA	
M.C.P.A.	0.162	0.059	0.017	mg/kg dry	0.196	ND	82.4	30-120	NA	NA	
Pentachlorophenol	0.152	0.059	0.0083	mg/kg dry	0.196	ND	77.6	50-120	NA	NA	
Picloram	<0.059	0.059	0.013	mg/kg dry	0.196	ND	NA	30-100	NA	NA	
Triclopyr	0.162	0.059	0.0071	mg/kg dry	0.196	ND	82.2	30-120	NA	NA	
Surrogate: D.C.A.A.	*0.161*			mg/kg dry	*0.196*	*NA*	*81.8*	*50-125*			

Matrix Spike Duplicate (B9I0256-MSD1)

Source: 0904744-01RE1 Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.144	0.059	0.011	mg/kg dry	0.196	ND	73.2	30-130	13.3	25	
2,4,5-T.P.	0.145	0.059	0.0083	mg/kg dry	0.196	ND	73.8	40-130	11.3	25	
2,4-D	0.155	0.059	0.014	mg/kg dry	0.196	ND	78.8	30-125	5.26	25	
2,4-D.B.	0.150	0.059	0.013	mg/kg dry	0.196	ND	76.2	70-130	4.93	25	
Bentazon	0.145	0.059	0.011	mg/kg dry	0.196	ND	73.6	65-125	5.36	25	
Dicamba	0.152	0.059	0.0095	mg/kg dry	0.196	ND	77.6	30-120	4.11	25	
Dinoseb	0.120	0.059	0.0059	mg/kg dry	0.196	ND	61.2	30-120	12.1	25	
M.C.P.A.	0.152	0.059	0.017	mg/kg dry	0.196	ND	77.6	30-120	6.07	25	
Pentachlorophenol	0.152	0.059	0.0083	mg/kg dry	0.196	ND	77.2	50-120	0.583	25	
Picloram	<0.059	0.059	0.013	mg/kg dry	0.196	ND	NA	30-100	NA	25	
Triclopyr	0.153	0.059	0.0071	mg/kg dry	0.196	ND	78.0	30-120	5.31	25	
Surrogate: D.C.A.A.	*0.149*			mg/kg dry	*0.196*	*NA*	*76.0*	*50-125*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904849
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

0904849

BARR ***Chain of Custody***

4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number: 23/19-0805.07 SIRI 300

Project Name: UMA-SSI/RI

Sample Origination State MN (use two letter postal state abbreviation)

COC Number: № 29823

COC 1 of 1

Project Manager: JSA/JME

Project QC Contact: KJN/AAN

Sampled by: KCB

Laboratory: Braun

Number of Containers/Preservative

Location	Start Depth	Stop Depth	Depth Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Water: VOCs (HCl) #1	Water: SVOCs (unpreserved) #2	Water: Dissolved Metals (HNO_3)	Water: Total Metals (HNO_3)	Water: General (unpreserved) #3	Water: Diesel Range Organics (HCl)	Water: Nutrients (H_2SO_4) #4	Soil: VOCs (tared MeOH) #1	Soil: GRO, BTEX (tared MeOH) #1	Soil: DRO (tared unpreserved)	Soil: Metals (unpreserved)	Soil: SVOCs (unpreserved) #2	Soil: % Solids (plastic vial, unpres.)	Total Number Of Containers	
1. SOCS-TT2-3'	3'	3'	ft	9/3/09	1700		X	X														X	X	3	Analyze List 1+2 Pest + OC-Pest.
2. SOCS-TT5-4'	4	4	ft	9/3/09	1500		X	X														X	X	3	↓
3.																									
4.																									
5.																									COOLER #1: 10.7°C
6.																									#2: 11.0
7.																									#3: 3.4
8.																									#4: 6.5
9.																									
10.																									

Common Parameter/Container - Preservation Key

#1 - Volatile Organics = BTEX, GRO, TPH, 8260 Full List
#2 - Semivolatile Organics = PAHs, PCP, Dioxins, 8270 Full List, Herbicide/Pesticide/PCBs
#3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
#4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
Kristin Bertz	(Y) N	9/3/09	1750	[illegible]	9/4/09	1109
Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
Kelly Neppl	(Y) N	9/4/09	890			

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other: _____ Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

H:\BLGISTDF\DRMS\Chain Of Custody Form 2009 RLG Rev 090709

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Braun Intertec Corporation
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Web: braunintertec.com

Ms. Kelly Neppl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

September 23, 2009

Work Order #: 0904908

RE: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300

Dear Kelly Neppl:

Braun Intertec Corporation received samples for the project identified above on September 02, 2009. Analytical results are summarized in the following report.

All routine quality assurance procedures were followed, unless otherwise noted.

Analytical results are reported on an "as received" basis unless otherwise noted. Where possible, the samples will be retained by the laboratory for 14 days following issuance of the initial final report. The samples will be disposed of or returned at that time. Arrangements can be made for extended storage by contacting me at this time.

We appreciate your decision to use Braun Intertec Corporation for this project. We are committed to being your vendor of choice to meet your analytical chemistry needs.

If you have any questions please contact me at the above phone number.

Sincerely,

Steven J. Albrecht

Steven J. Albrecht
Associate Principal

Certification/Accreditation Numbers

Minnesota Department of Health: 027-053-117 Wisconsin DNR: 999462640

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904908
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

How to Use this Report

In order to get the most out of the information presented in this report please refer to the following explanations as to how the data in this report is tied together and how some of the terms are defined.

Qualifiers and Abbreviations are defined in the following section. You will find these codes used throughout the report in headers and in note sections to designate a unique fact about the data to which they are associated.

The Case Narrative gives a "story" about the analysis and results. Here you will find greater elaboration on relevant qualifiers as well as an explanation of anything of particular note in the data. This is a discussion of the data in terms of quality control and chemistry. It is a summary of any deviations that could affect the usefulness of the data. This is not an interpretation as to how this information relates to regulatory compliance, toxicity, or hazardous characterization. These items are beyond the scope of this report.

The Sample Summary provides detail on sample receipt. The association between Client sample ID and the Laboratory sample ID are defined here; this information is valuable to have when discussing results with your project manager. Sample collection and receipt dates and times are provided here as well. General notes regarding the work order are also documented here. This is a mini "case narrative" that describes any anomalies regarding the condition of the samples upon arrival to the laboratory or special circumstances regarding the work order.

The Conditions Upon Receipt summarizes the results of specific checks that have been performed at sample receipt. This includes items like custody documentation, sample condition, and temperature at receipt. Each "cooler" is identified and the conditions associated with that cooler are documented. A "cooler" is defined as the larger container used to transport the individual samples. In most cases this is a standard recreational cooler but it can be a box, plastic bag, or other container.

The laboratory results are summarized in the following sections. Data is broken down into major categories for convenience. An example of such a category would be "Total Petroleum Hydrocarbons." Here you would find data that references the testing of such parameters as diesel range organics and gasoline range organics. Other categories are similarly mapped. The batch number is associated with each sample. This is important to evaluate Quality Control (QC) data. Surrogate results samples are provided with each sample. Laboratory control limits are provided for comparison (see below). The reference method is also identified. If a method is denoted with an "M" (e.g. EPA 1234(M)) this means that it has been modified. An explanation of the modification will be found in the Case Narrative. A result is given with appropriate units. If a soil sample is dry-weight corrected then the word "dry" will appear next to the units. If the word "dry" does not appear then the result is "as received."

The Method Reporting Limit (MRL) and Method Detection Limit (MDL) are provided. It is important to understand these terms. The MRL is a level that has been empirically verified to provide reliable quantitation of results. Results that are equal to or greater than this value will show up in bold. They are considered "hits." The MDL is a statistically derived number that indicates an estimated concentration at which an analyte can be detected above the noise level. If a result is less than the MRL but greater than the MDL then it is considered an estimate. Such a result is reported with a "J" flag denoting that it has been detected but that the result is an estimate.

In this specific report format, the majority of the analyses are reported without estimated concentrations less than the MRL. For these analyses, if a result is less than the MRL, the result is given as less than the MRL (e.g. if the MRL = 10 then a less than result would be given as "<10"). However, for the Organochlorine Pesticides in water and MDA List 1 Pesticides in water analyses, if a result is less than the MRL but greater than the MDL, then an estimated result is reported with a "J" flag. If a result for either of these two analyses is less than the MDL, then the result is given as less than the MDL.

The Quality Control (QC) samples are documented in the following section. Here you will find the preparation batches associated with each sample from the results section. The sample preparation method is also defined here. Accuracy is represented here in terms of a percent recovery as compared to a known value. Precision is represented as a relative percent difference between two duplicate sample aliquots. The laboratory control limits are provided as a means to evaluate the quality control data. If the result falls outside the laboratory control limits this simply means that it is outside what is typical for the laboratory and is noted accordingly. This does not mean that the data is invalid. Laboratory control limits are generally tighter than most program limits. This is a very important distinction. How the data is ultimately used determines its validity. Program requirements are defined in the Quality Assurance Project Plan (QAPP) governing the project. If your project manager is aware of your specific program requirements then a note will be made in the case narrative if the data fails to meet any of these requirements.

The last section contains copies of important documents and/or instrument printouts relevant to the report. This includes the chain of custody. It also may include items like chromatograms or spectra.

Please note that this report is paginated and must be reproduced in its entirety.

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904908
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Qualifiers and Abbreviations

qn	The spike recovery is outside of laboratory control limits for the matrix spike (MS) and/or the matrix spike duplicate (MSD).
gk	The sample was analyzed 1 day past the method specified holding time.
COC	Chain of Custody
dry	Sample results reported on a dry weight basis
MDL	Method Detection Limit
MRL	Method Reporting Limit
NA	Not Applicable
ND	Analyte NOT DETECTED
NR	Not Reported
%Rec	Percent Recovery
RPD	Relative Percent Difference
VOC	Volatile Organic Compound

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC5-TT29-6'	0904908-01	Soil	09/01/09 12:00	09/02/09 10:46

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904908
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Conditions Upon Receipt

Cooler: Cooler 1

Temperature:	1.0 °C	**COC Included:**	Yes	**Custody Seals Used:**	No
Temperature Blank:	Yes	**COC Complete:**	Yes	**Custody Seals Intact:**	NA
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	No
Preservation Confirmed:	No	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904908
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-TT29-6'

0904908-01 (Soil)

9/1/09 12:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**98**	0.050	0.010	% Wt	B9I0192	9/10/09 9:56	9/10/09 11:10	EPA 3545 7.2	gk

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.075	0.075	0.0045	mg/kg dry	B9I0202	9/11/09 9:30	9/16/09 23:25	EPA 8081	
4,4'-DDE	<0.075	0.075	0.0078	mg/kg dry	B9I0202	9/11/09 9:30	9/16/09 23:25	EPA 8081	
4,4'-DDT	<0.075	0.075	0.0069	mg/kg dry	B9I0202	9/11/09 9:30	9/16/09 23:25	EPA 8081	
Aldrin	<0.075	0.075	0.0096	mg/kg dry	B9I0202	9/11/09 9:30	9/16/09 23:25	EPA 8081	
alpha-BHC	<0.075	0.075	0.0069	mg/kg dry	B9I0202	9/11/09 9:30	9/16/09 23:25	EPA 8081	
alpha-Chlordane	<0.075	0.075	0.0060	mg/kg dry	B9I0202	9/11/09 9:30	9/16/09 23:25	EPA 8081	
beta-BHC	<0.075	0.075	0.0069	mg/kg dry	B9I0202	9/11/09 9:30	9/16/09 23:25	EPA 8081	
delta-BHC	<0.075	0.075	0.0054	mg/kg dry	B9I0202	9/11/09 9:30	9/16/09 23:25	EPA 8081	
Dieldrin	<0.075	0.075	0.0066	mg/kg dry	B9I0202	9/11/09 9:30	9/16/09 23:25	EPA 8081	
Endosulfan I	<0.075	0.075	0.0084	mg/kg dry	B9I0202	9/11/09 9:30	9/16/09 23:25	EPA 8081	
Endosulfan II	<0.075	0.075	0.0063	mg/kg dry	B9I0202	9/11/09 9:30	9/16/09 23:25	EPA 8081	
Endosulfan Sulfate	<0.075	0.075	0.0069	mg/kg dry	B9I0202	9/11/09 9:30	9/16/09 23:25	EPA 8081	
Endrin	<0.075	0.075	0.0084	mg/kg dry	B9I0202	9/11/09 9:30	9/16/09 23:25	EPA 8081	
Endrin Aldehyde	<0.075	0.075	0.029	mg/kg dry	B9I0202	9/11/09 9:30	9/16/09 23:25	EPA 8081	
Endrin Ketone	<0.075	0.075	0.0093	mg/kg dry	B9I0202	9/11/09 9:30	9/16/09 23:25	EPA 8081	
gamma-BHC	<0.075	0.075	0.0075	mg/kg dry	B9I0202	9/11/09 9:30	9/16/09 23:25	EPA 8081	
gamma-Chlordane	<0.075	0.075	0.0051	mg/kg dry	B9I0202	9/11/09 9:30	9/16/09 23:25	EPA 8081	
Heptachlor	<0.075	0.075	0.016	mg/kg dry	B9I0202	9/11/09 9:30	9/16/09 23:25	EPA 8081	
Heptachlor Epoxide	<0.075	0.075	0.013	mg/kg dry	B9I0202	9/11/09 9:30	9/16/09 23:25	EPA 8081	
Methoxychlor	<0.075	0.075	0.0063	mg/kg dry	B9I0202	9/11/09 9:30	9/16/09 23:25	EPA 8081	
Toxaphene	<1.5	1.5	0.29	mg/kg dry	B9I0202	9/11/09 9:30	9/16/09 23:25	EPA 8081	
Surr: DBC	*72.5 %*	*Limits: 40-160%*			*B9I0202*	*9/11/09 9:30*	*9/16/09 23:25*	*EPA 8081*	
Surr: TCMX	*76.7 %*	*Limits: 60-130%*			*B9I0202*	*9/11/09 9:30*	*9/16/09 23:51*	*EPA 8081*	

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.041	0.041	0.010	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:27	EPA 8270C	
Alachlor	<0.041	0.041	0.0072	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:27	EPA 8270C	
Atrazine	<0.041	0.041	0.010	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:27	EPA 8270C	
Chlorpyrifos	<0.041	0.041	0.0072	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:27	EPA 8270C	
Cyanazine	<0.041	0.041	0.0082	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:27	EPA 8270C	
Deisopropylatrazine	<0.041	0.041	0.0082	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:27	EPA 8270C	
Desethylatrazine	<0.041	0.041	0.011	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:27	EPA 8270C	
Dimethenamid	<0.041	0.041	0.0061	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:27	EPA 8270C	
EPTC	<0.041	0.041	0.0061	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:27	EPA 8270C	
Ethalfluralin	<0.041	0.041	0.014	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:27	EPA 8270C	

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UMP018682

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904908
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-TT29-6'

0904908-01 (Soil)

9/1/09 12:00

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Fonofos	<0.041	0.041	0.0041	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:27	EPA 8270C	
Metolachlor	<0.041	0.041	0.0031	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:27	EPA 8270C	
Metribuzin	<0.041	0.041	0.0092	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:27	EPA 8270C	
Pendimethalin	<0.041	0.041	0.016	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:27	EPA 8270C	
Phorate	<0.041	0.041	0.0061	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:27	EPA 8270C	
Prometon	<0.041	0.041	0.0061	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:27	EPA 8270C	
Propachlor	<0.041	0.041	0.0092	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:27	EPA 8270C	
Propazine	<0.041	0.041	0.0072	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:27	EPA 8270C	
Simazine	<0.041	0.041	0.0092	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:27	EPA 8270C	
Terbufos	<0.041	0.041	0.0092	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:27	EPA 8270C	
Triallate	<0.041	0.041	0.0051	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:27	EPA 8270C	
Trifluralin	<0.041	0.041	0.014	mg/kg dry	B9I0227	9/13/09 16:39	9/15/09 1:27	EPA 8270C	
Surr: Atrazine-d5	*90.7 %*	*Limits: 50-125%*			*B9I0227*	*9/13/09 16:39*	*9/15/09 1:27*	*EPA 8270C*	
Surr: Diazinon-d10	*89.6 %*	*Limits: 35-120%*			*B9I0227*	*9/13/09 16:39*	*9/15/09 1:27*	*EPA 8270C*	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.051	0.051	0.0092	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 22:31	EPA 8270C	
2,4,5-T.P.	<0.051	0.051	0.0072	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 22:31	EPA 8270C	
2,4-D	<0.051	0.051	0.012	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 22:31	EPA 8270C	
2,4-D.B.	<0.051	0.051	0.011	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 22:31	EPA 8270C	
Bentazon	<0.051	0.051	0.0092	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 22:31	EPA 8270C	
Dicamba	<0.051	0.051	0.0082	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 22:31	EPA 8270C	
Dinoseb	<0.051	0.051	0.0051	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 22:31	EPA 8270C	
M.C.P.A.	<0.051	0.051	0.014	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 22:31	EPA 8270C	
Pentachlorophenol	<0.051	0.051	0.0072	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 22:31	EPA 8270C	
Picloram	<0.051	0.051	0.011	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 22:31	EPA 8270C	qn
Triclopyr	<0.051	0.051	0.0061	mg/kg dry	B9I0256	9/14/09 9:00	9/17/09 22:31	EPA 8270C	
Surr: D.C.A.A.	*64.2 %*	*Limits: 50-125%*			*B9I0256*	*9/14/09 9:00*	*9/17/09 22:31*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904908
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Classical Chemistry Parameters - Quality Control

Batch B9I0192 - % Solids

Method Blank (B9I0192-BLK1)

Prepared & Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	<0.050	0.050	0.010	% Wt	NA	NA	NA	NA	NA	NA	

Duplicate (B9I0192-DUP1)

Source: 0904919-02 Prepared & Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	94.1	0.050	0.010	% Wt	NA	93.9	NA	NA	0.220	20	

Standard Reference Material (B9I0192-SRM1)

Prepared & Analyzed: 09/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	88.9			% Wt	91.3	NA	97.3	90-110	NA	NA	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904908
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0202 - EPA 3545

Method Blank (B9I0202-BLK1)

Prepared: 09/11/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	<0.072	0.072	0.0043	mg/kg	NA	NA	NA	NA	NA	NA	
4,4'-DDE	<0.072	0.072	0.0075	mg/kg	NA	NA	NA	NA	NA	NA	
4,4'-DDT	<0.072	0.072	0.0066	mg/kg	NA	NA	NA	NA	NA	NA	
Aldrin	<0.072	0.072	0.0092	mg/kg	NA	NA	NA	NA	NA	NA	
alpha-BHC	<0.072	0.072	0.0066	mg/kg	NA	NA	NA	NA	NA	NA	
alpha-Chlordane	<0.072	0.072	0.0057	mg/kg	NA	NA	NA	NA	NA	NA	
beta-BHC	<0.072	0.072	0.0066	mg/kg	NA	NA	NA	NA	NA	NA	
delta-BHC	<0.072	0.072	0.0052	mg/kg	NA	NA	NA	NA	NA	NA	
Dieldrin	<0.072	0.072	0.0063	mg/kg	NA	NA	NA	NA	NA	NA	
Endosulfan I	<0.072	0.072	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Endosulfan II	<0.072	0.072	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Endosulfan Sulfate	<0.072	0.072	0.0066	mg/kg	NA	NA	NA	NA	NA	NA	
Endrin	<0.072	0.072	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Endrin Aldehyde	<0.072	0.072	0.028	mg/kg	NA	NA	NA	NA	NA	NA	
Endrin Ketone	<0.072	0.072	0.0089	mg/kg	NA	NA	NA	NA	NA	NA	
gamma-BHC	<0.072	0.072	0.0072	mg/kg	NA	NA	NA	NA	NA	NA	
gamma-Chlordane	<0.072	0.072	0.0049	mg/kg	NA	NA	NA	NA	NA	NA	
Heptachlor	<0.072	0.072	0.016	mg/kg	NA	NA	NA	NA	NA	NA	
Heptachlor Epoxide	<0.072	0.072	0.012	mg/kg	NA	NA	NA	NA	NA	NA	
Methoxychlor	<0.072	0.072	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Toxaphene	<1.4	1.4	0.28	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: DBC	*0.187*			mg/kg	*0.239*	*NA*	*78.3*	*40-160*			
Surrogate: TCMX	*0.175*			mg/kg	*0.239*	*NA*	*73.2*	*60-130*			

Laboratory Control Sample (B9I0202-BS1)

Prepared: 09/11/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.219	0.074	0.0045	mg/kg	0.248	NA	88.1	70-130	NA	NA	
4,4'-DDE	0.230	0.074	0.0077	mg/kg	0.248	NA	92.7	70-130	NA	NA	
4,4'-DDT	0.282	0.074	0.0068	mg/kg	0.248	NA	114	70-130	NA	NA	
Aldrin	0.240	0.074	0.0095	mg/kg	0.248	NA	96.9	70-130	NA	NA	
alpha-BHC	0.250	0.074	0.0068	mg/kg	0.248	NA	101	70-130	NA	NA	
alpha-Chlordane	0.244	0.074	0.0060	mg/kg	0.248	NA	98.2	70-130	NA	NA	
beta-BHC	0.259	0.074	0.0068	mg/kg	0.248	NA	104	70-130	NA	NA	
Chlordane (tech)	<0.60	0.60		mg/kg	NA	NA	NA	70-130	NA	NA	
delta-BHC	0.249	0.074	0.0054	mg/kg	0.248	NA	100	70-130	NA	NA	
Dieldrin	0.248	0.074	0.0065	mg/kg	0.248	NA	99.8	70-130	NA	NA	
Endosulfan I	0.245	0.074	0.0083	mg/kg	0.248	NA	98.7	70-130	NA	NA	
Endosulfan II	0.220	0.074	0.0062	mg/kg	0.248	NA	88.9	70-130	NA	NA	
Endosulfan Sulfate	0.236	0.074	0.0068	mg/kg	0.248	NA	95.3	70-130	NA	NA	
Endrin	0.265	0.074	0.0083	mg/kg	0.248	NA	107	70-130	NA	NA	
Endrin Aldehyde	0.239	0.074	0.029	mg/kg	0.248	NA	96.4	70-130	NA	NA	
Endrin Ketone	0.268	0.074	0.0092	mg/kg	0.248	NA	108	70-130	NA	NA	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0202 - EPA 3545

Laboratory Control Sample (B9I0202-BS1)

Prepared: 09/11/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
gamma-BHC	0.264	0.074	0.0074	mg/kg	0.248	NA	106	70-130	NA	NA	
gamma-Chlordane	0.253	0.074	0.0051	mg/kg	0.248	NA	102	70-130	NA	NA	
Heptachlor	0.258	0.074	0.016	mg/kg	0.248	NA	104	70-130	NA	NA	
Heptachlor Epoxide	0.249	0.074	0.013	mg/kg	0.248	NA	100	70-130	NA	NA	
Methoxychlor	0.271	0.074	0.0062	mg/kg	0.248	NA	109	70-130	NA	NA	
Toxaphene	<1.5	1.5	0.29	mg/kg	NA	NA	NA	70-130	NA	NA	
Surrogate: DBC	*0.242*			mg/kg	*0.248*	*NA*	*97.5*	*40-160*			
Surrogate: TCMX	*0.212*			mg/kg	*0.248*	*NA*	*85.5*	*60-130*			

Laboratory Control Sample Duplicate (B9I0202-BSD1)

Prepared: 09/11/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.213	0.072	0.0043	mg/kg	0.240	NA	88.5	70-130	2.81	25	
4,4'-DDE	0.223	0.072	0.0075	mg/kg	0.240	NA	93.0	70-130	2.94	25	
4,4'-DDT	0.268	0.072	0.0066	mg/kg	0.240	NA	111	70-130	5.06	25	
Aldrin	0.233	0.072	0.0092	mg/kg	0.240	NA	96.8	70-130	3.32	25	
alpha-BHC	0.244	0.072	0.0066	mg/kg	0.240	NA	102	70-130	2.39	25	
alpha-Chlordane	0.236	0.072	0.0058	mg/kg	0.240	NA	98.3	70-130	3.13	25	
beta-BHC	0.253	0.072	0.0066	mg/kg	0.240	NA	105	70-130	2.53	25	
delta-BHC	0.242	0.072	0.0052	mg/kg	0.240	NA	101	70-130	2.63	25	
Dieldrin	0.241	0.072	0.0063	mg/kg	0.240	NA	100	70-130	2.90	25	
Endosulfan I	0.238	0.072	0.0081	mg/kg	0.240	NA	99.0	70-130	2.97	25	
Endosulfan II	0.214	0.072	0.0061	mg/kg	0.240	NA	89.0	70-130	3.07	25	
Endosulfan Sulfate	0.229	0.072	0.0066	mg/kg	0.240	NA	95.3	70-130	3.23	25	
Endrin	0.255	0.072	0.0081	mg/kg	0.240	NA	106	70-130	3.97	25	
Endrin Aldehyde	0.240	0.072	0.028	mg/kg	0.240	NA	99.7	70-130	0.220	25	
Endrin Ketone	0.258	0.072	0.0089	mg/kg	0.240	NA	108	70-130	3.71	25	
gamma-BHC	0.257	0.072	0.0072	mg/kg	0.240	NA	107	70-130	2.62	25	
gamma-Chlordane	0.245	0.072	0.0049	mg/kg	0.240	NA	102	70-130	3.09	25	
Heptachlor	0.248	0.072	0.016	mg/kg	0.240	NA	103	70-130	3.64	25	
Heptachlor Epoxide	0.241	0.072	0.012	mg/kg	0.240	NA	100	70-130	3.25	25	
Methoxychlor	0.262	0.072	0.0061	mg/kg	0.240	NA	109	70-130	3.57	25	
Surrogate: DBC	*0.237*			mg/kg	*0.240*	*NA*	*98.6*	*40-160*			
Surrogate: TCMX	*0.214*			mg/kg	*0.240*	*NA*	*89.1*	*60-130*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904908
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0202 - EPA 3545

Matrix Spike (B9I0202-MS1)

Source: 0904908-01 Prepared: 09/11/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.220	0.076	0.0045	mg/kg dry	0.252	ND	87.3	50-130	NA	NA	
4,4'-DDE	0.224	0.076	0.0079	mg/kg dry	0.252	ND	88.9	50-130	NA	NA	
4,4'-DDT	0.268	0.076	0.0070	mg/kg dry	0.252	ND	106	50-130	NA	NA	
Aldrin	0.236	0.076	0.0097	mg/kg dry	0.252	ND	93.8	50-130	NA	NA	
alpha-BHC	0.243	0.076	0.0070	mg/kg dry	0.252	ND	96.6	50-130	NA	NA	
alpha-Chlordane	0.236	0.076	0.0060	mg/kg dry	0.252	ND	93.5	50-130	NA	NA	
beta-BHC	0.254	0.076	0.0070	mg/kg dry	0.252	ND	101	50-130	NA	NA	
Chlordane (tech)	<0.60	0.60		mg/kg dry	NA	0.00	NA	50-130	NA	NA	
delta-BHC	0.232	0.076	0.0054	mg/kg dry	0.252	ND	92.2	50-130	NA	NA	
Dieldrin	0.240	0.076	0.0067	mg/kg dry	0.252	ND	95.1	50-130	NA	NA	
Endosulfan I	0.234	0.076	0.0085	mg/kg dry	0.252	ND	92.7	50-130	NA	NA	
Endosulfan II	0.211	0.076	0.0063	mg/kg dry	0.252	ND	83.6	50-130	NA	NA	
Endosulfan Sulfate	0.227	0.076	0.0070	mg/kg dry	0.252	ND	90.1	50-130	NA	NA	
Endrin	0.253	0.076	0.0085	mg/kg dry	0.252	ND	100	50-130	NA	NA	
Endrin Aldehyde	0.224	0.076	0.029	mg/kg dry	0.252	ND	89.0	50-130	NA	NA	
Endrin Ketone	0.255	0.076	0.0094	mg/kg dry	0.252	ND	101	50-130	NA	NA	
gamma-BHC	0.255	0.076	0.0076	mg/kg dry	0.252	ND	101	50-130	NA	NA	
gamma-Chlordane	0.245	0.076	0.0051	mg/kg dry	0.252	ND	97.1	50-130	NA	NA	
Heptachlor	0.247	0.076	0.016	mg/kg dry	0.252	ND	97.9	50-130	NA	NA	
Heptachlor Epoxide	0.240	0.076	0.013	mg/kg dry	0.252	ND	95.3	50-130	NA	NA	
Methoxychlor	0.270	0.076	0.0063	mg/kg dry	0.252	ND	107	50-130	NA	NA	
Toxaphene	<1.5	1.5	0.29	mg/kg dry	NA	ND	NA	50-130	NA	NA	
Surrogate: DBC	*0.233*			mg/kg dry	*0.252*	*NA*	*92.5*	*40-160*			
Surrogate: TCMX	*0.212*			mg/kg dry	*0.252*	*NA*	*84.2*	*60-130*			

Matrix Spike Duplicate (B9I0202-MSD1)

Source: 0904908-01 Prepared: 09/11/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.194	0.071	0.0043	mg/kg dry	0.237	ND	81.9	50-130	12.6	25	
4,4'-DDE	0.199	0.071	0.0074	mg/kg dry	0.237	ND	84.1	50-130	11.8	25	
4,4'-DDT	0.243	0.071	0.0065	mg/kg dry	0.237	ND	103	50-130	9.62	25	
Aldrin	0.205	0.071	0.0091	mg/kg dry	0.237	ND	86.5	50-130	14.3	25	
alpha-BHC	0.215	0.071	0.0065	mg/kg dry	0.237	ND	91.0	50-130	12.2	25	
alpha-Chlordane	0.208	0.071	0.0057	mg/kg dry	0.237	ND	88.0	50-130	12.4	25	
beta-BHC	0.225	0.071	0.0065	mg/kg dry	0.237	ND	95.0	50-130	12.4	25	
delta-BHC	0.215	0.071	0.0051	mg/kg dry	0.237	ND	91.0	50-130	7.51	25	
Dieldrin	0.210	0.071	0.0062	mg/kg dry	0.237	ND	88.9	50-130	13.1	25	
Endosulfan I	0.208	0.071	0.0079	mg/kg dry	0.237	ND	87.7	50-130	11.8	25	
Endosulfan II	0.193	0.071	0.0060	mg/kg dry	0.237	ND	81.4	50-130	8.91	25	
Endosulfan Sulfate	0.200	0.071	0.0065	mg/kg dry	0.237	ND	84.4	50-130	12.8	25	
Endrin	0.223	0.071	0.0079	mg/kg dry	0.237	ND	94.1	50-130	12.8	25	
Endrin Aldehyde	0.195	0.071	0.027	mg/kg dry	0.237	ND	82.2	50-130	14.1	25	
Endrin Ketone	0.226	0.071	0.0088	mg/kg dry	0.237	ND	95.6	50-130	12.0	25	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904908
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0202 - EPA 3545

Matrix Spike Duplicate (B9I0202-MSD1) **Source: 0904908-01** Prepared: 09/11/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
gamma-BHC	0.227	0.071	0.0071	mg/kg dry	0.237	ND	96.1	50-130	11.6	25	
gamma-Chlordane	0.216	0.071	0.0048	mg/kg dry	0.237	ND	91.2	50-130	12.5	25	
Heptachlor	0.219	0.071	0.015	mg/kg dry	0.237	ND	92.4	50-130	12.1	25	
Heptachlor Epoxide	0.211	0.071	0.012	mg/kg dry	0.237	ND	89.0	50-130	13.1	25	
Methoxychlor	0.235	0.071	0.0060	mg/kg dry	0.237	ND	99.5	50-130	13.8	25	
Surrogate: DBC	*0.205*			mg/kg dry	*0.237*	*NA*	*86.6*	*40-160*			
Surrogate: TCMX	*0.186*			mg/kg dry	*0.237*	*NA*	*78.7*	*60-130*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904908
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0227 - EPA 3545

Method Blank (B9I0227-BLK1)

Prepared: 09/13/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	<0.040	0.040	0.010	mg/kg	NA	NA	NA	NA	NA	NA	
Alachlor	<0.040	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Atrazine	<0.040	0.040	0.010	mg/kg	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	<0.040	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Cyanazine	<0.040	0.040	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	<0.040	0.040	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Desethylatrazine	<0.040	0.040	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Dimethenamid	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
EPTC	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Ethalfluralin	<0.040	0.040	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Fonofos	<0.040	0.040	0.0040	mg/kg	NA	NA	NA	NA	NA	NA	
Metolachlor	<0.040	0.040	0.0030	mg/kg	NA	NA	NA	NA	NA	NA	
Metribuzin	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Pendimethalin	<0.040	0.040	0.016	mg/kg	NA	NA	NA	NA	NA	NA	
Phorate	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Prometon	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Propachlor	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Propazine	<0.040	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Simazine	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Terbufos	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Triallate	<0.040	0.040	0.0050	mg/kg	NA	NA	NA	NA	NA	NA	
Trifluralin	<0.040	0.040	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: Atrazine-d5	*0.232*			mg/kg	*0.329*	*NA*	*70.6*	*50-125*			
Surrogate: Diazinon-d10	*0.246*			mg/kg	*0.329*	*NA*	*74.6*	*35-120*			

Laboratory Control Sample (B9I0227-BS1)

Prepared: 09/13/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.302	0.040	0.010	mg/kg	0.332	NA	91.1	70-120	NA	NA	
Alachlor	0.299	0.040	0.0070	mg/kg	0.332	NA	90.2	70-120	NA	NA	
Atrazine	0.294	0.040	0.010	mg/kg	0.332	NA	88.7	70-120	NA	NA	
Chlorpyrifos	0.293	0.040	0.0070	mg/kg	0.332	NA	88.4	70-120	NA	NA	
Cyanazine	0.306	0.040	0.0080	mg/kg	0.332	NA	92.3	70-120	NA	NA	
Deisopropylatrazine	0.274	0.040	0.0080	mg/kg	0.332	NA	82.6	65-115	NA	NA	
Desethylatrazine	0.301	0.040	0.011	mg/kg	0.332	NA	90.7	70-120	NA	NA	
Dimethenamid	0.296	0.040	0.0060	mg/kg	0.332	NA	89.3	70-120	NA	NA	
EPTC	0.284	0.040	0.0060	mg/kg	0.332	NA	85.7	60-105	NA	NA	
Ethalfluralin	0.276	0.040	0.014	mg/kg	0.332	NA	83.2	70-120	NA	NA	
Fonofos	0.298	0.040	0.0040	mg/kg	0.332	NA	89.8	70-115	NA	NA	
Metolachlor	0.300	0.040	0.0030	mg/kg	0.332	NA	90.6	70-120	NA	NA	
Metribuzin	0.297	0.040	0.0090	mg/kg	0.332	NA	89.7	70-120	NA	NA	
Pendimethalin	0.307	0.040	0.016	mg/kg	0.332	NA	92.7	70-120	NA	NA	
Phorate	0.305	0.040	0.0060	mg/kg	0.332	NA	91.9	70-115	NA	NA	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904908
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0227 - EPA 3545

Laboratory Control Sample (B9I0227-BS1)

Prepared: 09/13/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	0.299	0.040	0.0060	mg/kg	0.332	NA	90.2	70-120	NA	NA	
Propachlor	0.284	0.040	0.0090	mg/kg	0.332	NA	85.8	70-115	NA	NA	
Propazine	0.297	0.040	0.0070	mg/kg	0.332	NA	89.7	70-120	NA	NA	
Simazine	0.262	0.040	0.0090	mg/kg	0.332	NA	78.9	60-115	NA	NA	
Terbufos	0.293	0.040	0.0090	mg/kg	0.332	NA	88.5	70-115	NA	NA	
Triallate	0.285	0.040	0.0050	mg/kg	0.332	NA	86.0	70-115	NA	NA	
Trifluralin	0.284	0.040	0.014	mg/kg	0.332	NA	85.8	70-115	NA	NA	
Surrogate: Atrazine-d5	*0.259*			mg/kg	*0.332*	*NA*	*78.2*	*50-125*			
Surrogate: Diazinon-d10	*0.264*			mg/kg	*0.332*	*NA*	*79.7*	*35-120*			

Laboratory Control Sample Duplicate (B9I0227-BSD1)

Prepared: 09/13/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.298	0.040	0.010	mg/kg	0.329	NA	90.4	70-120	1.47	20	
Alachlor	0.304	0.040	0.0070	mg/kg	0.329	NA	92.2	70-120	1.50	20	
Atrazine	0.298	0.040	0.010	mg/kg	0.329	NA	90.4	70-120	1.20	20	
Chlorpyrifos	0.294	0.040	0.0070	mg/kg	0.329	NA	89.2	70-120	0.207	20	
Cyanazine	0.308	0.040	0.0080	mg/kg	0.329	NA	93.5	70-120	0.598	20	
Deisopropylatrazine	0.279	0.040	0.0080	mg/kg	0.329	NA	84.7	65-115	1.82	20	
Desethylatrazine	0.298	0.040	0.011	mg/kg	0.329	NA	90.6	70-120	0.804	20	
Dimethenamid	0.308	0.040	0.0060	mg/kg	0.329	NA	93.6	70-120	4.01	20	
EPTC	0.269	0.040	0.0060	mg/kg	0.329	NA	81.7	60-105	5.47	20	
Ethalfluralin	0.302	0.040	0.014	mg/kg	0.329	NA	91.7	70-120	9.03	20	
Fonofos	0.300	0.040	0.0040	mg/kg	0.329	NA	91.1	70-115	0.743	20	
Metolachlor	0.307	0.040	0.0030	mg/kg	0.329	NA	93.3	70-120	2.24	20	
Metribuzin	0.299	0.040	0.0090	mg/kg	0.329	NA	90.7	70-120	0.415	20	
Pendimethalin	0.310	0.040	0.016	mg/kg	0.329	NA	94.1	70-120	0.805	20	
Phorate	0.304	0.040	0.0060	mg/kg	0.329	NA	92.4	70-115	0.151	20	
Prometon	0.311	0.040	0.0060	mg/kg	0.329	NA	94.5	70-120	3.96	20	
Propachlor	0.288	0.040	0.0090	mg/kg	0.329	NA	87.5	70-115	1.27	20	
Propazine	0.309	0.040	0.0070	mg/kg	0.329	NA	93.9	70-120	3.88	20	
Simazine	0.273	0.040	0.0090	mg/kg	0.329	NA	82.9	60-115	4.25	20	
Terbufos	0.296	0.040	0.0090	mg/kg	0.329	NA	90.0	70-115	0.987	20	
Triallate	0.290	0.040	0.0050	mg/kg	0.329	NA	88.1	70-115	1.72	20	
Trifluralin	0.278	0.040	0.014	mg/kg	0.329	NA	84.5	70-115	2.22	20	
Surrogate: Atrazine-d5	*0.261*			mg/kg	*0.329*	*NA*	*79.4*	*50-125*			
Surrogate: Diazinon-d10	*0.268*			mg/kg	*0.329*	*NA*	*81.3*	*35-120*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904908
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0227 - EPA 3545

Matrix Spike (B9I0227-MS1)

Source: 0904744-01 Prepared: 09/13/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.356	0.048	0.012	mg/kg dry	0.396	ND	89.8	50-120	NA	NA	
Alachlor	0.366	0.048	0.0083	mg/kg dry	0.396	ND	92.3	55-120	NA	NA	
Atrazine	0.375	0.048	0.012	mg/kg dry	0.396	ND	94.7	60-120	NA	NA	
Chlorpyrifos	0.313	0.048	0.0083	mg/kg dry	0.396	ND	79.0	40-125	NA	NA	
Cyanazine	0.390	0.048	0.0095	mg/kg dry	0.396	ND	98.3	55-125	NA	NA	
Deisopropylatrazine	0.334	0.048	0.0095	mg/kg dry	0.396	ND	84.4	55-120	NA	NA	
Desethylatrazine	0.379	0.048	0.013	mg/kg dry	0.396	ND	95.6	60-125	NA	NA	
Dimethenamid	0.384	0.048	0.0071	mg/kg dry	0.396	ND	96.9	55-120	NA	NA	
EPTC	0.363	0.048	0.0071	mg/kg dry	0.396	ND	91.6	40-105	NA	NA	
Ethalfluralin	0.327	0.048	0.017	mg/kg dry	0.396	ND	82.6	40-120	NA	NA	
Fonofos	0.356	0.048	0.0048	mg/kg dry	0.396	ND	89.9	45-115	NA	NA	
Metolachlor	0.401	0.048	0.0036	mg/kg dry	0.396	0.0233	95.2	50-125	NA	NA	
Metribuzin	0.356	0.048	0.011	mg/kg dry	0.396	ND	89.9	55-125	NA	NA	
Pendimethalin	0.349	0.048	0.019	mg/kg dry	0.396	ND	88.0	40-120	NA	NA	
Phorate	0.357	0.048	0.0071	mg/kg dry	0.396	ND	90.2	40-115	NA	NA	
Prometon	0.345	0.048	0.0071	mg/kg dry	0.396	ND	87.0	60-125	NA	NA	
Propachlor	0.379	0.048	0.011	mg/kg dry	0.396	ND	95.7	60-115	NA	NA	
Propazine	0.386	0.048	0.0083	mg/kg dry	0.396	ND	97.5	55-120	NA	NA	
Simazine	0.336	0.048	0.011	mg/kg dry	0.396	ND	84.8	50-120	NA	NA	
Terbufos	0.344	0.048	0.011	mg/kg dry	0.396	ND	86.8	40-120	NA	NA	
Triallate	0.327	0.048	0.0059	mg/kg dry	0.396	ND	82.6	40-115	NA	NA	
Trifluralin	0.319	0.048	0.017	mg/kg dry	0.396	ND	80.6	40-115	NA	NA	
Surrogate: Atrazine-d5	*0.350*			mg/kg dry	*0.396*	*NA*	*88.3*	*50-125*			
Surrogate: Diazinon-d10	*0.321*			mg/kg dry	*0.396*	*NA*	*80.9*	*35-120*			

Matrix Spike Duplicate (B9I0227-MSD1)

Source: 0904744-01 Prepared: 09/13/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.330	0.048	0.012	mg/kg dry	0.395	ND	83.6	50-120	7.48	25	
Alachlor	0.336	0.048	0.0083	mg/kg dry	0.395	ND	85.0	55-120	8.57	25	
Atrazine	0.350	0.048	0.012	mg/kg dry	0.395	ND	88.5	60-120	7.10	25	
Chlorpyrifos	0.294	0.048	0.0083	mg/kg dry	0.395	ND	74.4	40-125	6.33	25	
Cyanazine	0.354	0.048	0.0095	mg/kg dry	0.395	ND	89.7	55-125	9.48	25	
Deisopropylatrazine	0.329	0.048	0.0095	mg/kg dry	0.395	ND	83.2	55-120	1.76	25	
Desethylatrazine	0.353	0.048	0.013	mg/kg dry	0.395	ND	89.3	60-125	7.15	25	
Dimethenamid	0.357	0.048	0.0071	mg/kg dry	0.395	ND	90.5	55-120	7.16	25	
EPTC	0.331	0.048	0.0071	mg/kg dry	0.395	ND	83.7	40-105	9.34	25	
Ethalfluralin	0.308	0.048	0.017	mg/kg dry	0.395	ND	77.9	40-120	6.19	25	
Fonofos	0.326	0.048	0.0048	mg/kg dry	0.395	ND	82.5	45-115	8.92	25	
Metolachlor	0.362	0.048	0.0036	mg/kg dry	0.395	0.0233	85.8	50-125	10.1	25	
Metribuzin	0.336	0.048	0.011	mg/kg dry	0.395	ND	85.0	55-125	5.94	25	
Pendimethalin	0.308	0.048	0.019	mg/kg dry	0.395	ND	77.9	40-120	12.5	25	
Phorate	0.323	0.048	0.0071	mg/kg dry	0.395	ND	81.7	40-115	10.2	25	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904908
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0227 - EPA 3545

Matrix Spike Duplicate (B9I0227-MSD1) **Source: 0904744-01** Prepared: 09/13/09 Analyzed: 09/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	0.333	0.048	0.0071	mg/kg dry	0.395	ND	84.3	60-125	3.48	25	
Propachlor	0.350	0.048	0.011	mg/kg dry	0.395	ND	88.5	60-115	8.15	25	
Propazine	0.357	0.048	0.0083	mg/kg dry	0.395	ND	90.4	55-120	7.89	25	
Simazine	0.323	0.048	0.011	mg/kg dry	0.395	ND	81.8	50-120	3.93	25	
Terbufos	0.309	0.048	0.011	mg/kg dry	0.395	ND	78.3	40-120	10.6	25	
Triallate	0.298	0.048	0.0059	mg/kg dry	0.395	ND	75.4	40-115	9.45	25	
Trifluralin	0.299	0.048	0.017	mg/kg dry	0.395	ND	75.6	40-115	6.73	25	
Surrogate: Atrazine-d5	*0.312*			mg/kg dry	*0.395*	*NA*	*79.0*	*50-125*			
Surrogate: Diazinon-d10	*0.307*			mg/kg dry	*0.395*	*NA*	*77.7*	*35-120*			

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0256 - EPA 3545

Method Blank (B9I0256-BLK1)

Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	<0.050	0.050	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	<0.050	0.050	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D	<0.050	0.050	0.012	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D.B.	<0.050	0.050	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Bentazon	<0.050	0.050	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Dicamba	<0.050	0.050	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Dinoseb	<0.050	0.050	0.0050	mg/kg	NA	NA	NA	NA	NA	NA	
M.C.P.A.	<0.050	0.050	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	<0.050	0.050	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Picloram	<0.050	0.050	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Triclopyr	<0.050	0.050	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	*0.112*			mg/kg	*0.166*	*NA*	*67.2*	*50-125*			

Laboratory Control Sample (B9I0256-BS1)

Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.128	0.050	0.0090	mg/kg	0.164	NA	77.8	60-125	NA	NA	
2,4,5-T.P.	0.127	0.050	0.0070	mg/kg	0.164	NA	77.4	65-125	NA	NA	
2,4-D	0.126	0.050	0.012	mg/kg	0.164	NA	76.6	60-125	NA	NA	
2,4-D.B.	0.131	0.050	0.011	mg/kg	0.164	NA	79.6	70-130	NA	NA	
Bentazon	0.127	0.050	0.0090	mg/kg	0.164	NA	77.2	65-125	NA	NA	
Dicamba	0.123	0.050	0.0080	mg/kg	0.164	NA	75.2	60-120	NA	NA	
Dinoseb	0.0926	0.050	0.0050	mg/kg	0.164	NA	56.4	30-120	NA	NA	
M.C.P.A.	0.127	0.050	0.014	mg/kg	0.164	NA	77.2	60-115	NA	NA	
Pentachlorophenol	0.111	0.050	0.0070	mg/kg	0.164	NA	67.6	50-120	NA	NA	
Picloram	0.0725	0.050	0.011	mg/kg	0.164	NA	44.2	30-100	NA	NA	
Triclopyr	0.126	0.050	0.0060	mg/kg	0.164	NA	77.0	65-120	NA	NA	
Surrogate: D.C.A.A.	*0.130*			mg/kg	*0.164*	*NA*	*79.0*	*50-125*			

Laboratory Control Sample Duplicate (B9I0256-BSD1)

Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.133	0.050	0.0090	mg/kg	0.165	NA	80.6	60-125	4.13	25	
2,4,5-T.P.	0.134	0.050	0.0070	mg/kg	0.165	NA	81.4	65-125	5.63	25	
2,4-D	0.141	0.050	0.012	mg/kg	0.165	NA	85.6	60-125	11.7	25	
2,4-D.B.	0.136	0.050	0.011	mg/kg	0.165	NA	82.4	70-130	4.05	25	
Bentazon	0.126	0.050	0.0090	mg/kg	0.165	NA	76.6	65-125	0.188	25	
Dicamba	0.131	0.050	0.0080	mg/kg	0.165	NA	79.4	60-120	6.03	25	
Dinoseb	0.102	0.050	0.0050	mg/kg	0.165	NA	61.8	30-120	9.73	25	
M.C.P.A.	0.133	0.050	0.014	mg/kg	0.165	NA	80.6	60-115	4.90	25	
Pentachlorophenol	0.124	0.050	0.0070	mg/kg	0.165	NA	75.2	50-120	11.2	25	
Picloram	0.0918	0.050	0.011	mg/kg	0.165	NA	55.6	30-100	23.4	25	
Triclopyr	0.131	0.050	0.0060	mg/kg	0.165	NA	79.4	65-120	3.66	25	

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UMP018693

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904908
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0256 - EPA 3545

Laboratory Control Sample Duplicate (B9I0256-BSD1)

Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: D.C.A.A.	*0.126*			mg/kg	*0.165*	*NA*	*76.2*	*50-125*			

Matrix Spike (B9I0256-MS1)

Source: 0904744-01RE1 Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.164	0.059	0.011	mg/kg dry	0.196	ND	83.6	30-130	NA	NA	
2,4,5-T.P.	0.162	0.059	0.0083	mg/kg dry	0.196	ND	82.6	40-130	NA	NA	
2,4-D	0.163	0.059	0.014	mg/kg dry	0.196	ND	83.0	30-125	NA	NA	
2,4-D.B.	0.157	0.059	0.013	mg/kg dry	0.196	ND	80.0	70-130	NA	NA	
Bentazon	0.152	0.059	0.011	mg/kg dry	0.196	ND	77.6	65-125	NA	NA	
Dicamba	0.159	0.059	0.0095	mg/kg dry	0.196	ND	80.8	30-120	NA	NA	
Dinoseb	0.106	0.059	0.0059	mg/kg dry	0.196	ND	54.2	30-120	NA	NA	
M.C.P.A.	0.162	0.059	0.017	mg/kg dry	0.196	ND	82.4	30-120	NA	NA	
Pentachlorophenol	0.152	0.059	0.0083	mg/kg dry	0.196	ND	77.6	50-120	NA	NA	
Picloram	<0.059	0.059	0.013	mg/kg dry	0.196	ND	NA	30-100	NA	NA	
Triclopyr	0.162	0.059	0.0071	mg/kg dry	0.196	ND	82.2	30-120	NA	NA	
Surrogate: D.C.A.A.	*0.161*			mg/kg dry	*0.196*	*NA*	*81.8*	*50-125*			

Matrix Spike Duplicate (B9I0256-MSD1)

Source: 0904744-01RE1 Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.144	0.059	0.011	mg/kg dry	0.196	ND	73.2	30-130	13.3	25	
2,4,5-T.P.	0.145	0.059	0.0083	mg/kg dry	0.196	ND	73.8	40-130	11.3	25	
2,4-D	0.155	0.059	0.014	mg/kg dry	0.196	ND	78.8	30-125	5.26	25	
2,4-D.B.	0.150	0.059	0.013	mg/kg dry	0.196	ND	76.2	70-130	4.93	25	
Bentazon	0.145	0.059	0.011	mg/kg dry	0.196	ND	73.6	65-125	5.36	25	
Dicamba	0.152	0.059	0.0095	mg/kg dry	0.196	ND	77.6	30-120	4.11	25	
Dinoseb	0.120	0.059	0.0059	mg/kg dry	0.196	ND	61.2	30-120	12.1	25	
M.C.P.A.	0.152	0.059	0.017	mg/kg dry	0.196	ND	77.6	30-120	6.07	25	
Pentachlorophenol	0.152	0.059	0.0083	mg/kg dry	0.196	ND	77.2	50-120	0.583	25	
Picloram	<0.059	0.059	0.013	mg/kg dry	0.196	ND	NA	30-100	NA	25	
Triclopyr	0.153	0.059	0.0071	mg/kg dry	0.196	ND	78.0	30-120	5.31	25	
Surrogate: D.C.A.A.	*0.149*			mg/kg dry	*0.196*	*NA*	*76.0*	*50-125*			

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UMP018694

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904908
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

0904908

Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number: 23/19-0805.07 SIRI 300
Project Name: UMA-SSI/RI
№ 28808

COC 1 of 1

Project Manager: JSA/JME
Project Contact: KJN/AAN
Sampled by: KCB
Laboratory: Braun

Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Volatile Organics (Pres.)*1	Semivolatile Organics *2	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	General (Unpreserved)*3	Cyanide (NaOH)	Nutrients (H_2SO_4)*4	Oil and Grease (H_2SO_4)	Sulfide (Zn Acetate)	Methane	Bacteria ($Na_2S_2O_3$)	DRO (HCl)	VOCs (2-oz tared MeOH)*1	GRO, BTEX (2-oz tared MeOH)*1	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.)*2	% Moisture (plastic vial, unpres.)	Total No. Of Containers	Remarks
1. SOCS-TT29-6'	9/1/09	1200		X	X																			X	X	3	Analyze OC-pest. + List 1+2 Pest.
2.																											
3.																											
4.																											
5.																											
6.																											
7.																											
8.																											
9.																											
10.																											
11.																											
12.																											

Number of Containers/Preservative — Water / Soil

HOLD

1.0°C TB

Common Parameter/Container - Preservation Key
*1 - Volatile Organics = BTEX, GRO, TPH, Full List
*2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
*3 - General = pH, Chloride, Flouride, Alkalinity, TSS, TDS, TS, Sulfate
*4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice? Y N	Date	Time	Received by:	Date	Time
[signature]	Y	9/2/09	1630	[signature]	9/2/09	1046
Relinquished By:	On Ice? Y N	Date	Time	Received by:	Date	Time

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other _____
Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

H:\LOGISTICS\WS\Chain Of Custody Form RLG Rev 07/07/05

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Braun Intertec Corporation
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Web: braunintertec.com

Ms. Kelly Neppl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

October 20, 2009

Work Order #: 0904909
(Revised)

RE: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300

Dear Kelly Neppl:

Braun Intertec Corporation received samples for the project identified above on September 09, 2009. Analytical results are summarized in the following report.

All routine quality assurance procedures were followed, unless otherwise noted.

Analytical results are reported on an "as received" basis unless otherwise noted. Where possible, the samples will be retained by the laboratory for 14 days following issuance of the initial final report. The samples will be disposed of or returned at that time. Arrangements can be made for extended storage by contacting me at this time.

We appreciate your decision to use Braun Intertec Corporation for this project. We are committed to being your vendor of choice to meet your analytical chemistry needs.

If you have any questions please contact me at the above phone number.

Sincerely,

Steven J. Albrecht

Steven J. Albrecht
Associate Principal

Certification/Accreditation Numbers

Minnesota Department of Health: 027-053-117 Wisconsin DNR: 999462640

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904909
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

How to Use this Report

In order to get the most out of the information presented in this report please refer to the following explanations as to how the data in this report is tied together and how some of the terms are defined.

Qualifiers and Abbreviations are defined in the following section. You will find these codes used throughout the report in headers and in note sections to designate a unique fact about the data to which they are associated.

The Case Narrative gives a "story" about the analysis and results. Here you will find greater elaboration on relevant qualifiers as well as an explanation of anything of particular note in the data. This is a discussion of the data in terms of quality control and chemistry. It is a summary of any deviations that could affect the usefulness of the data. This is not an interpretation as to how this information relates to regulatory compliance, toxicity, or hazardous characterization. These items are beyond the scope of this report.

The Sample Summary provides detail on sample receipt. The association between Client sample ID and the Laboratory sample ID are defined here; this information is valuable to have when discussing results with your project manager. Sample collection and receipt dates and times are provided here as well. General notes regarding the work order are also documented here. This is a mini "case narrative" that describes any anomalies regarding the condition of the samples upon arrival to the laboratory or special circumstances regarding the work order.

The Conditions Upon Receipt summarizes the results of specific checks that have been performed at sample receipt. This includes items like custody documentation, sample condition, and temperature at receipt. Each "cooler" is identified and the conditions associated with that cooler are documented. A "cooler" is defined as the larger container used to transport the individual samples. In most cases this is a standard recreational cooler but it can be a box, plastic bag, or other container.

The laboratory results are summarized in the following sections. Data is broken down into major categories for convenience. An example of such a category would be "Total Petroleum Hydrocarbons." Here you would find data that references the testing of such parameters as diesel range organics and gasoline range organics. Other categories are similarly mapped. The batch number is associated with each sample. This is important to evaluate Quality Control (QC) data. Surrogate results samples are provided with each sample. Laboratory control limits are provided for comparison (see below). The reference method is also identified. If a method is denoted with an "M" (e.g. EPA 1234(M)) this means that it has been modified. An explanation of the modification will be found in the Case Narrative. A result is given with appropriate units. If a soil sample is dry-weight corrected then the word "dry" will appear next to the units. If the word "dry" does not appear then the result is "as received."

The Method Reporting Limit (MRL) and Method Detection Limit (MDL) are provided. It is important to understand these terms. The MRL is a level that has been empirically verified to provide reliable quantitation of results. Results that are equal to or greater than this value will show up in bold. They are considered "hits." The MDL is a statistically derived number that indicates an estimated concentration at which an analyte can be detected above the noise level. If a result is less than the MRL but greater than the MDL then it is considered an estimate. Such a result is reported with a "J" flag denoting that it has been detected but that the result is an estimate.

In this specific report format, the majority of the analyses are reported without estimated concentrations less than the MRL. For these analyses, if a result is less than the MRL, the result is given as less than the MRL (e.g. if the MRL = 10 then a less than result would be given as "<10"). However, for the Organochlorine Pesticides in water and MDA List 1 Pesticides in water analyses, if a result is less than the MRL but greater than the MDL, then an estimated result is reported with a "J" flag. If a result for either of these two analyses is less than the MDL, then the result is given as less than the MDL.

The Quality Control (QC) samples are documented in the following section. Here you will find the preparation batches associated with each sample from the results section. The sample preparation method is also defined here. Accuracy is represented here in terms of a percent recovery as compared to a known value. Precision is represented as a relative percent difference between two duplicate sample aliquots. The laboratory control limits are provided as a means to evaluate the quality control data. If the result falls outside the laboratory control limits this simply means that it is outside what is typical for the laboratory and is noted accordingly. This does not mean that the data is invalid. Laboratory control limits are generally tighter than most program limits. This is a very important distinction. How the data is ultimately used determines its validity. Program requirements are defined in the Quality Assurance Project Plan (QAPP) governing the project. If your project manager is aware of your specific program requirements then a note will be made in the case narrative if the data fails to meet any of these requirements.

The last section contains copies of important documents and/or instrument printouts relevant to the report. This includes the chain of custody. It also may include items like chromatograms or spectra.

Please note that this report is paginated and must be reproduced in its entirety.

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904909
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Qualifiers and Abbreviations

qn	The spike recovery is outside of laboratory control limits for the matrix spike (MS) and/or the matrix spike duplicate (MSD).
J	Detected but below the Method Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
go	The laboratory control sample recovery is outside of laboratory control limits.
COC	Chain of Custody
dry	Sample results reported on a dry weight basis
MDL	Method Detection Limit
MRL	Method Reporting Limit
NA	Not Applicable
ND	Analyte NOT DETECTED
NR	Not Reported
%Rec	Percent Recovery
RPD	Relative Percent Difference
VOC	Volatile Organic Compound

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC5-GP10	0904909-01	Water	09/08/09 13:00	09/09/09 12:25
SOC5-GP3	0904909-02	Water	09/08/09 12:00	09/09/09 12:25

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UMP018699

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Conditions Upon Receipt

Cooler: Cooler 1

Temperature:	4.9 °C	**COC Included:**	Yes	**Custody Seals Used:**	Yes
Temperature Blank:	Yes	**COC Complete:**	Yes	**Custody Seals Intact:**	Yes
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	No
Preservation Confirmed:	Yes	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

Cooler: Cooler 2

Temperature:	6.2 °C	**COC Included:**	Yes	**Custody Seals Used:**	Yes
Temperature Blank:	Yes	**COC Complete:**	Yes	**Custody Seals Intact:**	Yes
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	No
Preservation Confirmed:	Yes	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904909
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-GP10

0904909-01 (Water)

9/8/09 13:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Total Kjeldahl Nitrogen	<0.50	0.50	0.17	mg/L	B9I0328	9/16/09 14:53	9/17/09 16:23	EPA 351.2	
Nitrate + Nitrite as N	**7.7**	0.10	0.034	mg/L	B9I0263	9/14/09 11:34	9/15/09 7:15	SM4500 NO3F	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.017	0.27	0.017	ug/L	B9I0270	9/14/09 17:41	9/17/09 12:42	EPA 8081A	
4,4'-DDE	<0.017	0.27	0.017	ug/L	B9I0270	9/14/09 17:41	9/17/09 12:42	EPA 8081A	go
4,4'-DDT	<0.021	0.27	0.021	ug/L	B9I0270	9/14/09 17:41	9/17/09 12:42	EPA 8081A	go
Aldrin	<0.019	0.27	0.019	ug/L	B9I0270	9/14/09 17:41	9/17/09 12:42	EPA 8081A	
alpha-BHC	<0.022	0.27	0.022	ug/L	B9I0270	9/14/09 17:41	9/17/09 12:42	EPA 8081A	
alpha-Chlordane	<0.017	0.27	0.017	ug/L	B9I0270	9/14/09 17:41	9/17/09 12:42	EPA 8081A	
beta-BHC	<0.017	0.27	0.017	ug/L	B9I0270	9/14/09 17:41	9/17/09 12:42	EPA 8081A	
delta-BHC	<0.015	0.27	0.015	ug/L	B9I0270	9/14/09 17:41	9/17/09 12:42	EPA 8081A	
Dieldrin	<0.026	0.27	0.026	ug/L	B9I0270	9/14/09 17:41	9/17/09 12:42	EPA 8081A	
Endosulfan I	<0.023	0.27	0.023	ug/L	B9I0270	9/14/09 17:41	9/17/09 12:42	EPA 8081A	
Endosulfan II	<0.020	0.27	0.020	ug/L	B9I0270	9/14/09 17:41	9/17/09 12:42	EPA 8081A	
Endosulfan Sulfate	<0.021	0.27	0.021	ug/L	B9I0270	9/14/09 17:41	9/17/09 12:42	EPA 8081A	
Endrin	<0.022	0.27	0.022	ug/L	B9I0270	9/14/09 17:41	9/17/09 12:42	EPA 8081A	
Endrin Aldehyde	<0.043	0.27	0.043	ug/L	B9I0270	9/14/09 17:41	9/17/09 12:42	EPA 8081A	
Endrin Ketone	<0.020	0.27	0.020	ug/L	B9I0270	9/14/09 17:41	9/17/09 12:42	EPA 8081A	
gamma-BHC	<0.022	0.27	0.022	ug/L	B9I0270	9/14/09 17:41	9/17/09 12:42	EPA 8081A	
gamma-Chlordane	<0.045	0.27	0.045	ug/L	B9I0270	9/14/09 17:41	9/17/09 12:42	EPA 8081A	
Heptachlor	<0.019	0.27	0.019	ug/L	B9I0270	9/14/09 17:41	9/17/09 12:42	EPA 8081A	
Heptachlor Epoxide	<0.041	0.27	0.041	ug/L	B9I0270	9/14/09 17:41	9/17/09 12:42	EPA 8081A	
Methoxychlor	<0.028	0.27	0.028	ug/L	B9I0270	9/14/09 17:41	9/17/09 12:42	EPA 8081A	
Toxaphene	<1.1	5.4	1.1	ug/L	B9I0270	9/14/09 17:41	9/17/09 12:42	EPA 8081A	
Surr: DBC	*87.8 %*	*Limits: 40-130%*			*B9I0270*	*9/14/09 17:41*	*9/17/09 12:42*	*EPA 8081A*	
Surr: TCMX	*84.3 %*	*Limits: 40-120%*			*B9I0270*	*9/14/09 17:41*	*9/17/09 13:08*	*EPA 8081A*	

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UMP018701

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904909
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-GP10

0904909-01 (Water)

9/8/09 13:00

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.32	0.64	0.32	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:20	EPA 8270C	
Alachlor	<0.24	0.64	0.24	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:20	EPA 8270C	
Atrazine	**0.73**	0.64	0.30	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:20	EPA 8270C	
Chlorpyrifos	<0.43	0.64	0.43	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:20	EPA 8270C	
Cyanazine	<0.62	0.64	0.62	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:20	EPA 8270C	
Deisopropylatrazine	<0.33	0.64	0.33	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:20	EPA 8270C	
Desethylatrazine	0.45 J	0.64	0.37	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:20	EPA 8270C	
Dimethenamid	<0.30	0.64	0.30	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:20	EPA 8270C	
EPTC	<0.28	0.64	0.28	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:20	EPA 8270C	
Ethalfluralin	<0.60	0.64	0.60	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:20	EPA 8270C	
Fonofos	<0.38	0.64	0.38	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:20	EPA 8270C	
Metolachlor	<0.35	0.64	0.35	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:20	EPA 8270C	
Metribuzin	<0.45	0.64	0.45	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:20	EPA 8270C	
Pendimethalin	<0.32	0.64	0.32	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:20	EPA 8270C	
Phorate	<0.75	1.3	0.75	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:20	EPA 8270C	
Prometon	<0.38	0.64	0.38	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:20	EPA 8270C	
Propachlor	<0.18	0.64	0.18	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:20	EPA 8270C	
Propazine	<0.26	0.64	0.26	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:20	EPA 8270C	
Simazine	<0.41	0.64	0.41	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:20	EPA 8270C	
Terbufos	<0.70	1.3	0.70	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:20	EPA 8270C	
Triallate	<0.43	0.64	0.43	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:20	EPA 8270C	
Trifluralin	<0.27	0.64	0.27	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:20	EPA 8270C	
Surr: Atrazine-d5	*87.0 %*	*Limits: 50-120%*			*B9I0274*	*9/15/09 6:17*	*9/16/09 14:20*	*EPA 8270C*	
Surr: Diazinon-d10	*84.3 %*	*Limits: 50-120%*			*B9I0274*	*9/15/09 6:17*	*9/16/09 14:20*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904909
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-GP10

0904909-01 (Water)

9/8/09 13:00

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.50	0.50	0.31	ug/L	B9I0295	9/15/09 12:53	9/18/09 1:01	EPA 8270C	
2,4,5-T.P.	<0.50	0.50	0.28	ug/L	B9I0295	9/15/09 12:53	9/18/09 1:01	EPA 8270C	
2,4-D	<0.50	0.50	0.26	ug/L	B9I0295	9/15/09 12:53	9/18/09 1:01	EPA 8270C	
2,4-D.B.	<0.50	0.50	0.15	ug/L	B9I0295	9/15/09 12:53	9/18/09 1:01	EPA 8270C	qn
Bentazon	<0.50	0.50	0.22	ug/L	B9I0295	9/15/09 12:53	9/18/09 1:01	EPA 8270C	qn
Dicamba	<0.50	0.50	0.38	ug/L	B9I0295	9/15/09 12:53	9/18/09 1:01	EPA 8270C	
Dinoseb	<0.50	0.50	0.34	ug/L	B9I0295	9/15/09 12:53	9/18/09 1:01	EPA 8270C	
M.C.P.A.	<0.30	0.30	0.29	ug/L	B9I0295	9/15/09 12:53	9/18/09 1:01	EPA 8270C	
Pentachlorophenol	<0.50	0.50	0.39	ug/L	B9I0295	9/15/09 12:53	9/18/09 1:01	EPA 8270C	qn, go
Picloram	<0.50	0.50	0.25	ug/L	B9I0295	9/15/09 12:53	9/18/09 1:01	EPA 8270C	
Triclopyr	<0.50	0.50	0.41	ug/L	B9I0295	9/15/09 12:53	9/18/09 1:01	EPA 8270C	qn
Surr: D.C.A.A.	*74.2 %*	*Limits: 65-130%*			*B9I0295*	*9/15/09 12:53*	*9/18/09 1:01*	*EPA 8270C*	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-GP3

0904909-02 (Water)

9/8/09 12:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Total Kjeldahl Nitrogen	**2.4**	0.50	0.17	mg/L	B9I0328	9/16/09 14:53	9/17/09 16:23	EPA 351.2	
Nitrate + Nitrite as N	**2.3**	0.10	0.034	mg/L	B9I0263	9/14/09 11:34	9/15/09 7:15	SM4500 NO3F	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.018	0.29	0.018	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:08	EPA 8081A	
4,4'-DDE	<0.018	0.29	0.018	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:08	EPA 8081A	go
4,4'-DDT	<0.023	0.29	0.023	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:08	EPA 8081A	go
Aldrin	<0.020	0.29	0.020	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:08	EPA 8081A	
alpha-BHC	<0.024	0.29	0.024	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:08	EPA 8081A	
alpha-Chlordane	<0.018	0.29	0.018	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:08	EPA 8081A	
beta-BHC	<0.018	0.29	0.018	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:08	EPA 8081A	
delta-BHC	<0.016	0.29	0.016	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:08	EPA 8081A	
Dieldrin	<0.027	0.29	0.027	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:08	EPA 8081A	
Endosulfan I	<0.024	0.29	0.024	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:08	EPA 8081A	
Endosulfan II	<0.022	0.29	0.022	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:08	EPA 8081A	
Endosulfan Sulfate	<0.022	0.29	0.022	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:08	EPA 8081A	
Endrin	<0.023	0.29	0.023	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:08	EPA 8081A	
Endrin Aldehyde	<0.046	0.29	0.046	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:08	EPA 8081A	
Endrin Ketone	<0.022	0.29	0.022	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:08	EPA 8081A	
gamma-BHC	<0.023	0.29	0.023	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:08	EPA 8081A	
gamma-Chlordane	<0.049	0.29	0.049	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:08	EPA 8081A	
Heptachlor	<0.020	0.29	0.020	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:08	EPA 8081A	
Heptachlor Epoxide	<0.044	0.29	0.044	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:08	EPA 8081A	
Methoxychlor	<0.030	0.29	0.030	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:08	EPA 8081A	
Toxaphene	<1.1	5.7	1.1	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:08	EPA 8081A	
Surr: DBC	*73.5 %*	*Limits: 40-130%*			*B9I0270*	*9/14/09 17:41*	*9/17/09 13:08*	*EPA 8081A*	
Surr: TCMX	*79.1 %*	*Limits: 40-120%*			*B9I0270*	*9/14/09 17:41*	*9/17/09 13:34*	*EPA 8081A*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904909
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Classical Chemistry Parameters - Quality Control

Batch B9I0263 - NO PREP

Method Blank (B9I0263-BLK1)

Prepared: 09/14/09 Analyzed: 09/15/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	<0.020	0.020	0.0069	mg/L	NA	NA	NA	NA	NA	NA	

Laboratory Control Sample (B9I0263-BS1)

Prepared: 09/14/09 Analyzed: 09/15/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	0.535	0.020	0.0069	mg/L	0.500	NA	107	80-120	NA	NA	

Laboratory Control Sample Duplicate (B9I0263-BSD1)

Prepared: 09/14/09 Analyzed: 09/15/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	0.528	0.020	0.0069	mg/L	0.500	NA	106	80-120	1.47	20	

Matrix Spike (B9I0263-MS1)

Source: 0905016-01 Prepared: 09/14/09 Analyzed: 09/15/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	0.457	0.020	0.0069	mg/L	0.500	ND	91.3	75-125	NA	NA	

Matrix Spike Duplicate (B9I0263-MSD1)

Source: 0905016-01 Prepared: 09/14/09 Analyzed: 09/15/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	0.443	0.020	0.0069	mg/L	0.500	ND	88.6	75-125	3.00	20	

Batch B9I0328 - EPA 351.2

Method Blank (B9I0328-BLK1)

Prepared: 09/16/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	<0.50	0.50	0.17	mg/L	NA	NA	NA	NA	NA	NA	

Laboratory Control Sample (B9I0328-BS1)

Prepared: 09/16/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	2.60	0.50	0.17	mg/L	2.50	NA	104	90-110	NA	NA	

Laboratory Control Sample Duplicate (B9I0328-BSD1)

Prepared: 09/16/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	2.54	0.50	0.17	mg/L	2.50	NA	101	90-110	2.30	20	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Classical Chemistry Parameters - Quality Control

Batch B9I0328 - EPA 351.2

Matrix Spike (B9I0328-MS1) **Source: 0904909-01** Prepared: 09/16/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	2.73	0.50	0.17	mg/L	2.50	ND	109	90-110	NA	NA	

Matrix Spike Duplicate (B9I0328-MSD1) **Source: 0904909-01** Prepared: 09/16/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	2.54	0.50	0.17	mg/L	2.50	ND	102	90-110	6.94	20	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0270 - EPA 3510C

Method Blank (B9I0270-BLK1)

Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
4,4'-DDE	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
4,4'-DDT	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
Aldrin	<0.018	0.25	0.018	ug/L	NA	NA	NA	NA	NA	NA	
alpha-BHC	<0.021	0.25	0.021	ug/L	NA	NA	NA	NA	NA	NA	
alpha-Chlordane	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
beta-BHC	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
delta-BHC	<0.014	0.25	0.014	ug/L	NA	NA	NA	NA	NA	NA	
Dieldrin	<0.024	0.25	0.024	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan I	<0.021	0.25	0.021	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan II	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan Sulfate	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
Endrin	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
Endrin Aldehyde	<0.040	0.25	0.040	ug/L	NA	NA	NA	NA	NA	NA	
Endrin Ketone	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
gamma-BHC	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
gamma-Chlordane	<0.042	0.25	0.042	ug/L	NA	NA	NA	NA	NA	NA	
Heptachlor	<0.018	0.25	0.018	ug/L	NA	NA	NA	NA	NA	NA	
Heptachlor Epoxide	<0.038	0.25	0.038	ug/L	NA	NA	NA	NA	NA	NA	
Methoxychlor	<0.026	0.25	0.026	ug/L	NA	NA	NA	NA	NA	NA	
Toxaphene	<1.0	5.0	1.0	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: DBC	*2.41*			ug/L	*2.50*	*NA*	*96.2*	*40-130*			
Surrogate: TCMX	*1.77*			ug/L	*2.50*	*NA*	*71.0*	*40-120*			

Laboratory Control Sample (B9I0270-BS2)

Prepared: 09/14/09 Analyzed: 09/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.20	0.25	0.016	ug/L	2.50	NA	88.0	80-120	NA	NA	
4,4'-DDE	1.95	0.25	0.016	ug/L	2.50	NA	78.0	80-120	NA	NA	
4,4'-DDT	1.86	0.25	0.020	ug/L	2.50	NA	74.5	80-120	NA	NA	
Aldrin	1.84	0.25	0.018	ug/L	2.50	NA	73.7	60-110	NA	NA	
alpha-BHC	2.22	0.25	0.021	ug/L	2.50	NA	88.6	70-120	NA	NA	
alpha-Chlordane	2.11	0.25	0.016	ug/L	2.50	NA	84.2	80-120	NA	NA	
beta-BHC	2.48	0.25	0.016	ug/L	2.50	NA	99.2	80-120	NA	NA	
delta-BHC	2.45	0.25	0.014	ug/L	2.50	NA	98.1	80-120	NA	NA	
Dieldrin	2.29	0.25	0.024	ug/L	2.50	NA	91.5	80-120	NA	NA	
Endosulfan I	2.25	0.25	0.021	ug/L	2.50	NA	89.8	80-120	NA	NA	
Endosulfan II	2.28	0.25	0.019	ug/L	2.50	NA	91.3	80-120	NA	NA	
Endosulfan Sulfate	2.35	0.25	0.019	ug/L	2.50	NA	94.2	80-120	NA	NA	
Endrin	2.33	0.25	0.020	ug/L	2.50	NA	93.0	80-120	NA	NA	
Endrin Aldehyde	2.42	0.25	0.040	ug/L	2.50	NA	96.9	80-120	NA	NA	
Endrin Ketone	2.63	0.25	0.019	ug/L	2.50	NA	105	80-120	NA	NA	
gamma-BHC	2.38	0.25	0.020	ug/L	2.50	NA	95.1	80-120	NA	NA	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904909
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0270 - EPA 3510C

Laboratory Control Sample (B9I0270-BS2)

Prepared: 09/14/09 Analyzed: 09/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
gamma-Chlordane	2.18	0.25	0.042	ug/L	2.50	NA	87.2	80-120	NA	NA	
Heptachlor	1.82	0.25	0.018	ug/L	2.50	NA	73.0	60-110	NA	NA	
Heptachlor Epoxide	2.28	0.25	0.038	ug/L	2.50	NA	91.1	80-120	NA	NA	
Methoxychlor	2.08	0.25	0.026	ug/L	2.50	NA	83.3	80-120	NA	NA	
Surrogate: DBC	*2.08*			ug/L	*2.50*	*NA*	*83.1*	*40-130*			
Surrogate: TCMX	*1.64*			ug/L	*2.50*	*NA*	*65.7*	*40-120*			

Laboratory Control Sample Duplicate (B9I0270-BSD2)

Prepared: 09/14/09 Analyzed: 09/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.27	0.25	0.016	ug/L	2.50	NA	90.9	80-120	3.18	25	
4,4'-DDE	2.01	0.25	0.016	ug/L	2.50	NA	80.5	80-120	3.15	25	
4,4'-DDT	1.92	0.25	0.020	ug/L	2.50	NA	76.8	80-120	3.07	25	
Aldrin	1.93	0.25	0.018	ug/L	2.50	NA	77.4	60-110	4.90	25	
alpha-BHC	2.20	0.25	0.021	ug/L	2.50	NA	87.9	70-120	0.843	25	
alpha-Chlordane	2.10	0.25	0.016	ug/L	2.50	NA	84.0	80-120	0.296	25	
beta-BHC	2.43	0.25	0.016	ug/L	2.50	NA	97.1	80-120	2.10	25	
delta-BHC	2.42	0.25	0.014	ug/L	2.50	NA	96.8	80-120	1.27	25	
Dieldrin	2.29	0.25	0.024	ug/L	2.50	NA	91.8	80-120	0.241	25	
Endosulfan I	2.22	0.25	0.021	ug/L	2.50	NA	88.9	80-120	1.08	25	
Endosulfan II	2.27	0.25	0.019	ug/L	2.50	NA	90.7	80-120	0.581	25	
Endosulfan Sulfate	2.30	0.25	0.019	ug/L	2.50	NA	92.0	80-120	2.26	25	
Endrin	2.32	0.25	0.020	ug/L	2.50	NA	92.6	80-120	0.394	25	
Endrin Aldehyde	2.39	0.25	0.040	ug/L	2.50	NA	95.6	80-120	1.36	25	
Endrin Ketone	2.54	0.25	0.019	ug/L	2.50	NA	102	80-120	3.21	25	
gamma-BHC	2.32	0.25	0.020	ug/L	2.50	NA	93.0	80-120	2.23	25	
gamma-Chlordane	2.23	0.25	0.042	ug/L	2.50	NA	89.3	80-120	2.34	25	
Heptachlor	1.87	0.25	0.018	ug/L	2.50	NA	74.8	60-110	2.54	25	
Heptachlor Epoxide	2.24	0.25	0.038	ug/L	2.50	NA	89.7	80-120	1.49	25	
Methoxychlor	2.11	0.25	0.026	ug/L	2.50	NA	84.5	80-120	1.52	25	
Surrogate: DBC	*2.21*			ug/L	*2.50*	*NA*	*88.3*	*40-130*			
Surrogate: TCMX	*1.71*			ug/L	*2.50*	*NA*	*68.3*	*40-120*			

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0270 - EPA 3510C

Matrix Spike (B9I0270-MS1)

Source: 0905025-01 Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.25	0.27	0.017	ug/L	2.66	ND	84.5	50-130	NA	NA	
4,4'-DDE	1.88	0.27	0.017	ug/L	2.66	ND	70.7	50-130	NA	NA	
4,4'-DDT	1.76	0.27	0.021	ug/L	2.66	ND	66.1	50-130	NA	NA	
Aldrin	2.03	0.27	0.019	ug/L	2.66	ND	76.3	50-130	NA	NA	
alpha-Chlordane	2.31	0.27	0.017	ug/L	2.66	ND	86.7	50-130	NA	NA	
beta-BHC	2.68	0.27	0.017	ug/L	2.66	ND	101	50-130	NA	NA	
delta-BHC	2.73	0.27	0.015	ug/L	2.66	ND	103	50-130	NA	NA	
Dieldrin	2.49	0.27	0.025	ug/L	2.66	ND	93.5	50-130	NA	NA	
Endosulfan I	2.46	0.27	0.022	ug/L	2.66	ND	92.5	50-130	NA	NA	
Endosulfan II	2.43	0.27	0.020	ug/L	2.66	ND	91.5	50-130	NA	NA	
Endosulfan Sulfate	2.47	0.27	0.021	ug/L	2.66	ND	92.7	50-130	NA	NA	
Endrin	2.34	0.27	0.021	ug/L	2.66	ND	88.0	50-130	NA	NA	
Endrin Aldehyde	2.60	0.27	0.043	ug/L	2.66	ND	97.8	50-130	NA	NA	
Endrin Ketone	2.52	0.27	0.020	ug/L	2.66	ND	94.9	50-130	NA	NA	
gamma-BHC	2.56	0.27	0.021	ug/L	2.66	ND	96.3	50-130	NA	NA	
gamma-Chlordane	2.33	0.27	0.045	ug/L	2.66	ND	87.7	50-130	NA	NA	
Heptachlor	2.06	0.27	0.019	ug/L	2.66	ND	77.6	50-130	NA	NA	
Heptachlor Epoxide	2.48	0.27	0.041	ug/L	2.66	ND	93.1	50-130	NA	NA	
Methoxychlor	2.15	0.27	0.028	ug/L	2.66	ND	80.9	50-130	NA	NA	
Surrogate: DBC	*2.12*			ug/L	*2.66*	*NA*	*79.8*	*40-130*			
Surrogate: TCMX	*2.17*			ug/L	*2.66*	*NA*	*81.5*	*40-120*			

Matrix Spike Duplicate (B9I0270-MSD1)

Source: 0905025-01 Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.44	0.27	0.017	ug/L	2.73	ND	89.3	50-130	8.29	25	
4,4'-DDE	2.16	0.27	0.017	ug/L	2.73	ND	79.1	50-130	13.9	25	
4,4'-DDT	2.00	0.27	0.021	ug/L	2.73	ND	73.2	50-130	12.9	25	
Aldrin	2.22	0.27	0.019	ug/L	2.73	ND	81.4	50-130	9.24	25	
alpha-BHC	2.52	0.27	0.023	ug/L	2.73	ND	92.2	50-130	0.289	25	
alpha-Chlordane	2.50	0.27	0.017	ug/L	2.73	ND	91.5	50-130	8.06	25	
beta-BHC	2.71	0.27	0.017	ug/L	2.73	ND	99.2	50-130	0.923	25	
delta-BHC	2.74	0.27	0.015	ug/L	2.73	ND	100	50-130	0.220	25	
Dieldrin	2.62	0.27	0.026	ug/L	2.73	ND	95.9	50-130	5.19	25	
Endosulfan I	2.58	0.27	0.023	ug/L	2.73	ND	94.6	50-130	4.88	25	
Endosulfan II	2.53	0.27	0.021	ug/L	2.73	ND	92.7	50-130	4.00	25	
Endosulfan Sulfate	2.56	0.27	0.021	ug/L	2.73	ND	93.9	50-130	3.91	25	
Endrin	2.46	0.27	0.022	ug/L	2.73	ND	89.9	50-130	4.81	25	
Endrin Aldehyde	2.68	0.27	0.044	ug/L	2.73	ND	98.0	50-130	2.88	25	
Endrin Ketone	2.59	0.27	0.021	ug/L	2.73	ND	94.9	50-130	2.72	25	
gamma-BHC	2.57	0.27	0.022	ug/L	2.73	ND	94.2	50-130	0.433	25	
gamma-Chlordane	2.53	0.27	0.046	ug/L	2.73	ND	92.7	50-130	8.18	25	
Heptachlor	2.21	0.27	0.019	ug/L	2.73	ND	80.8	50-130	6.74	25	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0270 - EPA 3510C

Matrix Spike Duplicate (B9I0270-MSD1) **Source: 0905025-01** Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Heptachlor Epoxide	2.58	0.27	0.042	ug/L	2.73	ND	94.6	50-130	4.29	25	
Methoxychlor	2.32	0.27	0.029	ug/L	2.73	ND	84.8	50-130	7.41	25	
Surrogate: DBC	*2.29*			ug/L	*2.73*	*NA*	*83.8*	*40-130*			
Surrogate: TCMX	*2.01*			ug/L	*2.73*	*NA*	*73.6*	*40-120*			

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0274 - EPA 3510C

Method Blank (B9I0274-BLK1)

Prepared: 09/15/09 Analyzed: 09/16/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	<0.25	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Alachlor	<0.19	0.50	0.19	ug/L	NA	NA	NA	NA	NA	NA	
Atrazine	<0.24	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	<0.34	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Cyanazine	<0.48	0.50	0.48	ug/L	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	<0.26	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
Desethylatrazine	<0.29	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Dimethenamid	<0.24	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
EPTC	<0.22	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Ethalfluralin	<0.47	0.50	0.47	ug/L	NA	NA	NA	NA	NA	NA	
Fonofos	<0.30	0.50	0.30	ug/L	NA	NA	NA	NA	NA	NA	
Metolachlor	<0.28	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
Metribuzin	<0.35	0.50	0.35	ug/L	NA	NA	NA	NA	NA	NA	
Pendimethalin	<0.25	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Phorate	<0.58	1.0	0.58	ug/L	NA	NA	NA	NA	NA	NA	
Prometon	<0.29	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Propachlor	<0.14	0.50	0.14	ug/L	NA	NA	NA	NA	NA	NA	
Propazine	<0.21	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Simazine	<0.32	0.50	0.32	ug/L	NA	NA	NA	NA	NA	NA	
Terbufos	<0.54	1.0	0.54	ug/L	NA	NA	NA	NA	NA	NA	
Triallate	<0.34	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Trifluralin	<0.21	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: Atrazine-d5	*9.65*			ug/L	*10.0*	*NA*	*96.5*	*50-120*			
Surrogate: Diazinon-d10	*9.12*			ug/L	*10.0*	*NA*	*91.2*	*50-120*			

Laboratory Control Sample (B9I0274-BS1)

Prepared: 09/15/09 Analyzed: 09/16/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	10.0	0.50	0.25	ug/L	10.0	NA	100	65-115	NA	NA	
Alachlor	10.4	0.50	0.19	ug/L	10.0	NA	104	65-115	NA	NA	
Atrazine	10.0	0.50	0.24	ug/L	10.0	NA	100	65-115	NA	NA	
Chlorpyrifos	9.83	0.50	0.34	ug/L	10.0	NA	98.3	65-115	NA	NA	
Cyanazine	10.4	0.50	0.48	ug/L	10.0	NA	104	65-115	NA	NA	
Deisopropylatrazine	7.97	0.50	0.26	ug/L	10.0	NA	79.7	65-115	NA	NA	
Desethylatrazine	10.2	0.50	0.29	ug/L	10.0	NA	102	65-115	NA	NA	
Dimethenamid	10.7	0.50	0.24	ug/L	10.0	NA	107	65-115	NA	NA	
EPTC	8.39	0.50	0.22	ug/L	10.0	NA	83.9	50-110	NA	NA	
Ethalfluralin	9.88	0.50	0.47	ug/L	10.0	NA	98.8	65-115	NA	NA	
Fonofos	10.2	0.50	0.30	ug/L	10.0	NA	102	55-115	NA	NA	
Metolachlor	10.5	0.50	0.28	ug/L	10.0	NA	105	70-120	NA	NA	
Metribuzin	10.2	0.50	0.35	ug/L	10.0	NA	102	70-120	NA	NA	
Pendimethalin	10.8	0.50	0.25	ug/L	10.0	NA	108	65-115	NA	NA	
Phorate	9.67	1.0	0.58	ug/L	10.0	NA	96.7	30-100	NA	NA	

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0274 - EPA 3510C

Laboratory Control Sample (B9I0274-BS1)

Prepared: 09/15/09 Analyzed: 09/16/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	10.4	0.50	0.29	ug/L	10.0	NA	104	70-120	NA	NA	
Propachlor	9.92	0.50	0.14	ug/L	10.0	NA	99.2	65-115	NA	NA	
Propazine	10.2	0.50	0.21	ug/L	10.0	NA	102	65-115	NA	NA	
Simazine	8.82	0.50	0.32	ug/L	10.0	NA	88.2	65-115	NA	NA	
Terbufos	8.97	1.0	0.54	ug/L	10.0	NA	89.7	30-100	NA	NA	
Triallate	9.91	0.50	0.34	ug/L	10.0	NA	99.1	65-115	NA	NA	
Trifluralin	9.42	0.50	0.21	ug/L	10.0	NA	94.2	65-115	NA	NA	
Surrogate: Atrazine-d5	*8.77*			ug/L	*10.0*	*NA*	*87.7*	*50-120*			
Surrogate: Diazinon-d10	*8.53*			ug/L	*10.0*	*NA*	*85.3*	*50-120*			

Laboratory Control Sample Duplicate (B9I0274-BSD1)

Prepared: 09/15/09 Analyzed: 09/16/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	10.4	0.50	0.25	ug/L	10.0	NA	104	65-115	3.04	25	
Alachlor	10.7	0.50	0.19	ug/L	10.0	NA	107	65-115	2.94	25	
Atrazine	10.3	0.50	0.24	ug/L	10.0	NA	103	65-115	2.66	25	
Chlorpyrifos	9.96	0.50	0.34	ug/L	10.0	NA	99.6	65-115	1.31	25	
Cyanazine	10.5	0.50	0.48	ug/L	10.0	NA	105	65-115	1.15	25	
Deisopropylatrazine	8.43	0.50	0.26	ug/L	10.0	NA	84.3	65-115	5.61	25	
Desethylatrazine	10.1	0.50	0.29	ug/L	10.0	NA	101	65-115	1.18	25	
Dimethenamid	10.6	0.50	0.24	ug/L	10.0	NA	106	65-115	1.04	25	
EPTC	8.31	0.50	0.22	ug/L	10.0	NA	83.1	50-110	0.958	30	
Ethalfluralin	10.4	0.50	0.47	ug/L	10.0	NA	104	65-115	5.61	30	
Fonofos	10.2	0.50	0.30	ug/L	10.0	NA	102	55-115	0.393	30	
Metolachlor	10.6	0.50	0.28	ug/L	10.0	NA	106	70-120	1.14	25	
Metribuzin	10.5	0.50	0.35	ug/L	10.0	NA	105	70-120	3.18	25	
Pendimethalin	11.0	0.50	0.25	ug/L	10.0	NA	110	65-115	1.92	25	
Phorate	9.58	1.0	0.58	ug/L	10.0	NA	95.8	30-100	0.935	30	
Prometon	10.4	0.50	0.29	ug/L	10.0	NA	104	70-120	0.287	30	
Propachlor	10.2	0.50	0.14	ug/L	10.0	NA	102	65-115	2.98	30	
Propazine	10.4	0.50	0.21	ug/L	10.0	NA	104	65-115	2.03	25	
Simazine	9.37	0.50	0.32	ug/L	10.0	NA	93.7	65-115	6.05	25	
Terbufos	9.62	1.0	0.54	ug/L	10.0	NA	96.2	30-100	6.99	30	
Triallate	10.0	0.50	0.34	ug/L	10.0	NA	100	65-115	1.30	25	
Trifluralin	9.56	0.50	0.21	ug/L	10.0	NA	95.6	65-115	1.48	25	
Surrogate: Atrazine-d5	*9.10*			ug/L	*10.0*	*NA*	*91.0*	*50-120*			
Surrogate: Diazinon-d10	*9.04*			ug/L	*10.0*	*NA*	*90.4*	*50-120*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904909
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0274 - EPA 3510C

Duplicate (B9I0274-DUP1) **Source: 0904909-01** Prepared: 09/15/09 Analyzed: 09/16/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	<0.31	0.61	0.31	ug/L	NA	ND	NA	NA	NA	30	
Alachlor	<0.23	0.61	0.23	ug/L	NA	ND	NA	NA	NA	30	
Atrazine	0.871	0.61	0.29	ug/L	NA	0.731	NA	NA	17.5	30	
Chlorpyrifos	<0.41	0.61	0.41	ug/L	NA	ND	NA	NA	NA	30	
Cyanazine	<0.59	0.61	0.59	ug/L	NA	ND	NA	NA	NA	30	
Deisopropylatrazine	<0.32	0.61	0.32	ug/L	NA	ND	NA	NA	NA	30	
Desethylatrazine	0.491 J	0.61	0.36	ug/L	NA	0.449	NA	NA	8.96	30	
Dimethenamid	<0.29	0.61	0.29	ug/L	NA	ND	NA	NA	NA	30	
EPTC	<0.26	0.61	0.26	ug/L	NA	ND	NA	NA	NA	30	
Ethalfluralin	<0.57	0.61	0.57	ug/L	NA	ND	NA	NA	NA	30	
Fonofos	<0.36	0.61	0.36	ug/L	NA	ND	NA	NA	NA	30	
Metolachlor	<0.34	0.61	0.34	ug/L	NA	ND	NA	NA	NA	30	
Metribuzin	<0.43	0.61	0.43	ug/L	NA	ND	NA	NA	NA	30	
Pendimethalin	<0.31	0.61	0.31	ug/L	NA	ND	NA	NA	NA	30	
Phorate	<0.72	1.2	0.72	ug/L	NA	ND	NA	NA	NA	30	
Prometon	<0.36	0.61	0.36	ug/L	NA	ND	NA	NA	NA	30	
Propachlor	<0.17	0.61	0.17	ug/L	NA	ND	NA	NA	NA	30	
Propazine	<0.25	0.61	0.25	ug/L	NA	ND	NA	NA	NA	30	
Simazine	<0.39	0.61	0.39	ug/L	NA	ND	NA	NA	NA	30	
Terbufos	<0.67	1.2	0.67	ug/L	NA	ND	NA	NA	NA	30	
Triallate	<0.41	0.61	0.41	ug/L	NA	ND	NA	NA	NA	30	
Trifluralin	<0.26	0.61	0.26	ug/L	NA	ND	NA	NA	NA	30	
Surrogate: Atrazine-d5	*11.2*			ug/L	*12.3*	*NA*	*90.9*	*50-120*			
Surrogate: Diazinon-d10	*11.2*			ug/L	*12.3*	*NA*	*91.5*	*50-120*			

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0295 - EPA 3510C

Method Blank (B9I0295-BLK1)

Prepared: 09/15/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	<0.50	0.50	0.31	ug/L	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	<0.50	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D	<0.50	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D.B.	<0.50	0.50	0.15	ug/L	NA	NA	NA	NA	NA	NA	
Bentazon	<0.50	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Dicamba	<0.50	0.50	0.38	ug/L	NA	NA	NA	NA	NA	NA	
Dinoseb	<0.50	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
M.C.P.A.	<0.30	0.30	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	<0.50	0.50	0.39	ug/L	NA	NA	NA	NA	NA	NA	
Picloram	<0.50	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Triclopyr	<0.50	0.50	0.41	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	*3.76*			ug/L	*5.00*	*NA*	*75.2*	*65-130*			

Laboratory Control Sample (B9I0295-BS1)

Prepared: 09/15/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.29	0.50	0.31	ug/L	5.00	NA	85.8	70-130	NA	NA	
2,4,5-T.P.	4.28	0.50	0.28	ug/L	5.00	NA	85.6	70-130	NA	NA	
2,4-D	4.02	0.50	0.26	ug/L	5.00	NA	80.4	70-130	NA	NA	
2,4-D.B.	3.95	0.50	0.15	ug/L	5.00	NA	79.0	75-140	NA	NA	
Bentazon	4.04	0.50	0.22	ug/L	5.00	NA	80.8	75-135	NA	NA	
Dicamba	3.91	0.50	0.38	ug/L	5.00	NA	78.2	65-130	NA	NA	
Dinoseb	3.09	0.50	0.34	ug/L	5.00	NA	61.8	40-125	NA	NA	
M.C.P.A.	4.02	0.30	0.29	ug/L	5.00	NA	80.4	70-130	NA	NA	
Pentachlorophenol	3.87	0.50	0.39	ug/L	5.00	NA	77.4	70-120	NA	NA	
Picloram	3.47	0.50	0.25	ug/L	5.00	NA	69.4	60-125	NA	NA	
Triclopyr	4.23	0.50	0.41	ug/L	5.00	NA	84.6	75-125	NA	NA	
Surrogate: D.C.A.A.	*3.85*			ug/L	*5.00*	*NA*	*77.0*	*65-130*			

Laboratory Control Sample Duplicate (B9I0295-BSD1)

Prepared: 09/15/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.39	0.50	0.31	ug/L	5.00	NA	87.8	70-130	2.30	20	
2,4,5-T.P.	4.08	0.50	0.28	ug/L	5.00	NA	81.6	70-130	4.78	20	
2,4-D	4.04	0.50	0.26	ug/L	5.00	NA	80.8	70-130	0.496	20	
2,4-D.B.	4.06	0.50	0.15	ug/L	5.00	NA	81.2	75-140	2.75	20	
Bentazon	3.86	0.50	0.22	ug/L	5.00	NA	77.2	75-135	4.56	20	
Dicamba	3.81	0.50	0.38	ug/L	5.00	NA	76.2	65-130	2.59	20	
Dinoseb	2.80	0.50	0.34	ug/L	5.00	NA	56.0	40-125	9.85	20	
M.C.P.A.	4.11	0.30	0.29	ug/L	5.00	NA	82.2	70-130	2.21	20	
Pentachlorophenol	3.47	0.50	0.39	ug/L	5.00	NA	69.4	70-120	10.9	20	
Picloram	3.48	0.50	0.25	ug/L	5.00	NA	69.6	60-125	0.288	20	
Triclopyr	4.06	0.50	0.41	ug/L	5.00	NA	81.2	75-125	4.10	20	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904909
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0295 - EPA 3510C

Laboratory Control Sample Duplicate (B9I0295-BSD1)

Prepared: 09/15/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: D.C.A.A.	*3.66*			ug/L	*5.00*	*NA*	*73.2*	*65-130*			

Matrix Spike (B9I0295-MS1)

Source: 0904909-01 Prepared: 09/15/09 Analyzed: 09/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.01	0.50	0.31	ug/L	5.00	ND	80.2	70-140	NA	NA	
2,4,5-T.P.	3.95	0.50	0.28	ug/L	5.00	ND	79.0	70-135	NA	NA	
2,4-D	3.83	0.50	0.26	ug/L	5.00	ND	76.6	70-140	NA	NA	
2,4-D.B.	3.73	0.50	0.15	ug/L	5.00	ND	74.6	75-140	NA	NA	
Bentazon	3.72	0.50	0.22	ug/L	5.00	ND	74.4	70-140	NA	NA	
Dicamba	3.77	0.50	0.38	ug/L	5.00	ND	75.4	65-140	NA	NA	
Dinoseb	3.23	0.50	0.34	ug/L	5.00	ND	64.6	40-130	NA	NA	
M.C.P.A.	3.92	0.30	0.29	ug/L	5.00	ND	78.4	60-140	NA	NA	
Pentachlorophenol	3.63	0.50	0.39	ug/L	5.00	ND	72.6	70-125	NA	NA	
Picloram	3.49	0.50	0.25	ug/L	5.00	ND	69.8	45-140	NA	NA	
Triclopyr	3.93	0.50	0.41	ug/L	5.00	ND	78.6	75-125	NA	NA	
Surrogate: D.C.A.A.	*3.75*			ug/L	*5.00*	*NA*	*75.0*	*65-130*			

Matrix Spike Duplicate (B9I0295-MSD1)

Source: 0904909-01 Prepared: 09/15/09 Analyzed: 09/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	3.90	0.50	0.31	ug/L	5.00	ND	78.0	70-140	2.78	25	
2,4,5-T.P.	3.61	0.50	0.28	ug/L	5.00	ND	72.2	70-135	8.99	25	
2,4-D	3.69	0.50	0.26	ug/L	5.00	ND	73.8	70-140	3.72	25	
2,4-D.B.	3.74	0.50	0.15	ug/L	5.00	ND	74.8	75-140	0.268	25	
Bentazon	3.30	0.50	0.22	ug/L	5.00	ND	66.0	70-140	12.0	25	
Dicamba	3.70	0.50	0.38	ug/L	5.00	ND	74.0	65-140	1.87	25	
Dinoseb	2.99	0.50	0.34	ug/L	5.00	ND	59.8	40-130	7.72	25	
M.C.P.A.	3.48	0.30	0.29	ug/L	5.00	ND	69.6	60-140	11.9	25	
Pentachlorophenol	3.22	0.50	0.39	ug/L	5.00	ND	64.4	70-125	12.0	25	
Picloram	3.03	0.50	0.25	ug/L	5.00	ND	60.6	45-140	14.1	25	
Triclopyr	3.63	0.50	0.41	ug/L	5.00	ND	72.6	75-125	7.94	25	
Surrogate: D.C.A.A.	*3.54*			ug/L	*5.00*	*NA*	*70.8*	*65-130*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904909
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

0904909

Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number: 23/19-B05.07 SIRI ~~SSI~~ 300

Project Name: UMA SSI/RI

Sample Origination State MN (use two letter postal state abbreviation)

COC Number: № 29006

COC 1 of 1

Project Manager: SME

Project QC Contact: KSN

Sampled by: ESL

Laboratory: Braun

Location	Start Depth	Stop Depth	Depth Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: OC	Water: VOCs (HCl) #1	Water: SVOCs (unpreserved) #2	Water: Dissolved Metals (HNO_3)	Water: Total Metals (HNO_3)	Water: General (unpreserved) #3	Water: Diesel Range Organics (HCl)	Water: Nutrients (H_2SO_4) #4	Water: List 1+2 Pesticides	Water: OC Pesticides	Water: Nitrogen	Soil: VOCs (tared MeOH) #1	Soil: GRO, BTEX (tared MeOH) #1	Soil: DRO (tared unpreserved)	Soil: Metals (unpreserved)	Soil: SVOCs (unpreserved) #2	Soil: % Solids (plastic vial, ungres.)	Total Number Of Containers	
1. SOC5-GP10	—	—	—	9-8-09	1300	X		X										4	2	1							7	List 1+2 Pesticides, OC Pesticides, Nitrogen
2. SOC5-GP3	—	—	—	9-8-09	1200	X		X											2	1							3	See attached list
3.																												
4.																												
5.																												
6.																												
7.																												
8.																												
9.																												
10.																												

Common Parameter/Container - Preservative Key

#1 - Volatile Organics = BTEX, GRO, TPH, 8260 Full List
#2 - Semivolatile Organics = PAHs, PCP, Dioxins, 8270 Full List, Herbicide/Pesticide/PCBs
#3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
#4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
[signature]	Y N	9-9-09	0715	[signature]	9-9-09	1225
Relinquished By:	On Ice? Y N	Date	Time	Received by:	Date	Time

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other: _____

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

custody seals intacted

cooler #1 4.9° on ice TB
cooler #2 6.2° on ice no TB

H:\RLG\STD\ORMS\Chain Of Custody Form 2009 RLG Rev. 09/07/09

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Ms. Kelly Neppl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

October 20, 2009

Work Order #: 0904922
(Revised)

RE: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300

Dear Kelly Neppl:

Braun Intertec Corporation received samples for the project identified above on September 10, 2009. Analytical results are summarized in the following report.

All routine quality assurance procedures were followed, unless otherwise noted.

Analytical results are reported on an "as received" basis unless otherwise noted. Where possible, the samples will be retained by the laboratory for 14 days following issuance of the initial final report. The samples will be disposed of or returned at that time. Arrangements can be made for extended storage by contacting me at this time.

We appreciate your decision to use Braun Intertec Corporation for this project. We are committed to being your vendor of choice to meet your analytical chemistry needs.

If you have any questions please contact me at the above phone number.

Sincerely,

Steven J. Albrecht

Steven J. Albrecht
Associate Principal

Certification/Accreditation Numbers

Minnesota Department of Health: 027-053-117 Wisconsin DNR: 999462640

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904922
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

How to Use this Report

In order to get the most out of the information presented in this report please refer to the following explanations as to how the data in this report is tied together and how some of the terms are defined.

Qualifiers and Abbreviations are defined in the following section. You will find these codes used throughout the report in headers and in note sections to designate a unique fact about the data to which they are associated.

The Case Narrative gives a "story" about the analysis and results. Here you will find greater elaboration on relevant qualifiers as well as an explanation of anything of particular note in the data. This is a discussion of the data in terms of quality control and chemistry. It is a summary of any deviations that could affect the usefulness of the data. This is not an interpretation as to how this information relates to regulatory compliance, toxicity, or hazardous characterization. These items are beyond the scope of this report.

The Sample Summary provides detail on sample receipt. The association between Client sample ID and the Laboratory sample ID are defined here; this information is valuable to have when discussing results with your project manager. Sample collection and receipt dates and times are provided here as well. General notes regarding the work order are also documented here. This is a mini "case narrative" that describes any anomalies regarding the condition of the samples upon arrival to the laboratory or special circumstances regarding the work order.

The Conditions Upon Receipt summarizes the results of specific checks that have been performed at sample receipt. This includes items like custody documentation, sample condition, and temperature at receipt. Each "cooler" is identified and the conditions associated with that cooler are documented. A "cooler" is defined as the larger container used to transport the individual samples. In most cases this is a standard recreational cooler but it can be a box, plastic bag, or other container.

The laboratory results are summarized in the following sections. Data is broken down into major categories for convenience. An example of such a category would be "Total Petroleum Hydrocarbons." Here you would find data that references the testing of such parameters as diesel range organics and gasoline range organics. Other categories are similarly mapped. The batch number is associated with each sample. This is important to evaluate Quality Control (QC) data. Surrogate results samples are provided with each sample. Laboratory control limits are provided for comparison (see below). The reference method is also identified. If a method is denoted with an "M" (e.g. EPA 1234(M)) this means that it has been modified. An explanation of the modification will be found in the Case Narrative. A result is given with appropriate units. If a soil sample is dry-weight corrected then the word "dry" will appear next to the units. If the word "dry" does not appear then the result is "as received."

The Method Reporting Limit (MRL) and Method Detection Limit (MDL) are provided. It is important to understand these terms. The MRL is a level that has been empirically verified to provide reliable quantitation of results. Results that are equal to or greater than this value will show up in bold. They are considered "hits." The MDL is a statistically derived number that indicates an estimated concentration at which an analyte can be detected above the noise level. If a result is less than the MRL but greater than the MDL then it is considered an estimate. Such a result is reported with a "J" flag denoting that it has been detected but that the result is an estimate.

In this specific report format, the majority of the analyses are reported without estimated concentrations less than the MRL. For these analyses, if a result is less than the MRL, the result is given as less than the MRL (e.g. if the MRL = 10 then a less than result would be given as "<10"). However, for the Organochlorine Pesticides in water and MDA List 1 Pesticides in water analyses, if a result is less than the MRL but greater than the MDL, then an estimated result is reported with a "J" flag. If a result for either of these two analyses is less than the MDL, then the result is given as less than the MDL.

The Quality Control (QC) samples are documented in the following section. Here you will find the preparation batches associated with each sample from the results section. The sample preparation method is also defined here. Accuracy is represented here in terms of a percent recovery as compared to a known value. Precision is represented as a relative percent difference between two duplicate sample aliquots. The laboratory control limits are provided as a means to evaluate the quality control data. If the result falls outside the laboratory control limits this simply means that it is outside what is typical for the laboratory and is noted accordingly. This does not mean that the data is invalid. Laboratory control limits are generally tighter than most program limits. This is a very important distinction. How the data is ultimately used determines its validity. Program requirements are defined in the Quality Assurance Project Plan (QAPP) governing the project. If your project manager is aware of your specific program requirements then a note will be made in the case narrative if the data fails to meet any of these requirements.

The last section contains copies of important documents and/or instrument printouts relevant to the report. This includes the chain of custody. It also may include items like chromatograms or spectra.

Please note that this report is paginated and must be reproduced in its entirety.

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904922
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Qualifiers and Abbreviations

qn	The spike recovery is outside of laboratory control limits for the matrix spike (MS) and/or the matrix spike duplicate (MSD).
J	Detected but below the Method Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
go	The laboratory control sample recovery is outside of laboratory control limits.
COC	Chain of Custody
dry	Sample results reported on a dry weight basis
MDL	Method Detection Limit
MRL	Method Reporting Limit
NA	Not Applicable
ND	Analyte NOT DETECTED
NR	Not Reported
%Rec	Percent Recovery
RPD	Relative Percent Difference
VOC	Volatile Organic Compound

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904922
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC5-GP11	0904922-01	Water	09/09/09 09:00	09/10/09 10:45

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Conditions Upon Receipt

Cooler: Cooler 1

Temperature:	4.3 °C	**COC Included:**	Yes	**Custody Seals Used:**	Yes
Temperature Blank:	Yes	**COC Complete:**	Yes	**Custody Seals Intact:**	Yes
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	No
Preservation Confirmed:	Yes	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-GP11

0904922-01 (Water)

9/9/09 9:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Total Kjeldahl Nitrogen	<0.50	0.50	0.17	mg/L	B9I0328	9/16/09 14:53	9/17/09 16:23	EPA 351.2	
Nitrate + Nitrite as N	**13**	0.30	0.10	mg/L	B9I0263	9/14/09 11:34	9/15/09 7:15	SM4500 NO3F	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.017	0.27	0.017	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:34	EPA 8081A	
4,4'-DDE	<0.017	0.27	0.017	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:34	EPA 8081A	go
4,4'-DDT	<0.021	0.27	0.021	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:34	EPA 8081A	go
Aldrin	<0.019	0.27	0.019	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:34	EPA 8081A	
alpha-BHC	<0.022	0.27	0.022	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:34	EPA 8081A	
alpha-Chlordane	<0.017	0.27	0.017	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:34	EPA 8081A	
beta-BHC	<0.017	0.27	0.017	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:34	EPA 8081A	
delta-BHC	<0.015	0.27	0.015	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:34	EPA 8081A	
Dieldrin	<0.025	0.27	0.025	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:34	EPA 8081A	
Endosulfan I	<0.022	0.27	0.022	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:34	EPA 8081A	
Endosulfan II	<0.020	0.27	0.020	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:34	EPA 8081A	
Endosulfan Sulfate	<0.021	0.27	0.021	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:34	EPA 8081A	
Endrin	<0.021	0.27	0.021	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:34	EPA 8081A	
Endrin Aldehyde	<0.043	0.27	0.043	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:34	EPA 8081A	
Endrin Ketone	<0.020	0.27	0.020	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:34	EPA 8081A	
gamma-BHC	<0.021	0.27	0.021	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:34	EPA 8081A	
gamma-Chlordane	<0.045	0.27	0.045	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:34	EPA 8081A	
Heptachlor	<0.019	0.27	0.019	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:34	EPA 8081A	
Heptachlor Epoxide	<0.041	0.27	0.041	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:34	EPA 8081A	
Methoxychlor	<0.028	0.27	0.028	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:34	EPA 8081A	
Toxaphene	<1.1	5.3	1.1	ug/L	B9I0270	9/14/09 17:41	9/17/09 13:34	EPA 8081A	
Surr: DBC	*88.1 %*	*Limits: 40-130%*			*B9I0270*	*9/14/09 17:41*	*9/17/09 13:34*	*EPA 8081A*	
Surr: TCMX	*81.5 %*	*Limits: 40-120%*			*B9I0270*	*9/14/09 17:41*	*9/17/09 13:34*	*EPA 8081A*	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-GP11

0904922-01 (Water)

9/9/09 9:00

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.30	0.60	0.30	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:46	EPA 8270C	
Alachlor	<0.22	0.60	0.22	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:46	EPA 8270C	
Atrazine	<0.28	0.60	0.28	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:46	EPA 8270C	
Chlorpyrifos	<0.40	0.60	0.40	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:46	EPA 8270C	
Cyanazine	<0.58	0.60	0.58	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:46	EPA 8270C	
Deisopropylatrazine	<0.31	0.60	0.31	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:46	EPA 8270C	
Desethylatrazine	<0.35	0.60	0.35	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:46	EPA 8270C	
Dimethenamid	<0.28	0.60	0.28	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:46	EPA 8270C	
EPTC	<0.26	0.60	0.26	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:46	EPA 8270C	
Ethalfluralin	<0.56	0.60	0.56	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:46	EPA 8270C	
Fonofos	<0.35	0.60	0.35	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:46	EPA 8270C	
Metolachlor	<0.33	0.60	0.33	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:46	EPA 8270C	
Metribuzin	<0.42	0.60	0.42	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:46	EPA 8270C	
Pendimethalin	<0.30	0.60	0.30	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:46	EPA 8270C	
Phorate	<0.70	1.2	0.70	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:46	EPA 8270C	
Prometon	<0.35	0.60	0.35	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:46	EPA 8270C	
Propachlor	<0.17	0.60	0.17	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:46	EPA 8270C	
Propazine	<0.25	0.60	0.25	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:46	EPA 8270C	
Simazine	<0.38	0.60	0.38	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:46	EPA 8270C	
Terbufos	<0.65	1.2	0.65	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:46	EPA 8270C	
Triallate	<0.40	0.60	0.40	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:46	EPA 8270C	
Trifluralin	<0.25	0.60	0.25	ug/L	B9I0274	9/15/09 6:17	9/16/09 14:46	EPA 8270C	
Surr: Atrazine-d5	*88.6 %*	*Limits: 50-120%*			*B9I0274*	*9/15/09 6:17*	*9/16/09 14:46*	*EPA 8270C*	
Surr: Diazinon-d10	*83.9 %*	*Limits: 50-120%*			*B9I0274*	*9/15/09 6:17*	*9/16/09 14:46*	*EPA 8270C*	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-GP11

0904922-01 (Water)

9/9/09 9:00

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.50	0.50	0.31	ug/L	B9I0295	9/15/09 12:53	9/18/09 1:25	EPA 8270C	
2,4,5-T.P.	<0.50	0.50	0.28	ug/L	B9I0295	9/15/09 12:53	9/18/09 1:25	EPA 8270C	
2,4-D	<0.50	0.50	0.26	ug/L	B9I0295	9/15/09 12:53	9/18/09 1:25	EPA 8270C	
2,4-D.B.	<0.50	0.50	0.15	ug/L	B9I0295	9/15/09 12:53	9/18/09 1:25	EPA 8270C	qn
Bentazon	<0.50	0.50	0.22	ug/L	B9I0295	9/15/09 12:53	9/18/09 1:25	EPA 8270C	qn
Dicamba	<0.50	0.50	0.38	ug/L	B9I0295	9/15/09 12:53	9/18/09 1:25	EPA 8270C	
Dinoseb	<0.50	0.50	0.34	ug/L	B9I0295	9/15/09 12:53	9/18/09 1:25	EPA 8270C	
M.C.P.A.	<0.30	0.30	0.29	ug/L	B9I0295	9/15/09 12:53	9/18/09 1:25	EPA 8270C	
Pentachlorophenol	<0.50	0.50	0.39	ug/L	B9I0295	9/15/09 12:53	9/18/09 1:25	EPA 8270C	go, qn
Picloram	<0.50	0.50	0.25	ug/L	B9I0295	9/15/09 12:53	9/18/09 1:25	EPA 8270C	
Triclopyr	<0.50	0.50	0.41	ug/L	B9I0295	9/15/09 12:53	9/18/09 1:25	EPA 8270C	qn
Surr: D.C.A.A.	*77.8 %*	*Limits: 65-130%*			*B9I0295*	*9/15/09 12:53*	*9/18/09 1:25*	*EPA 8270C*	

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UMP018724

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Classical Chemistry Parameters - Quality Control

Batch B9I0263 - NO PREP

Method Blank (B9I0263-BLK1)

Prepared: 09/14/09 Analyzed: 09/15/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	<0.020	0.020	0.0069	mg/L	NA	NA	NA	NA	NA	NA	

Laboratory Control Sample (B9I0263-BS1)

Prepared: 09/14/09 Analyzed: 09/15/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	0.535	0.020	0.0069	mg/L	0.500	NA	107	80-120	NA	NA	

Laboratory Control Sample Duplicate (B9I0263-BSD1)

Prepared: 09/14/09 Analyzed: 09/15/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	0.528	0.020	0.0069	mg/L	0.500	NA	106	80-120	1.47	20	

Matrix Spike (B9I0263-MS1)

Source: 0905016-01 Prepared: 09/14/09 Analyzed: 09/15/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	0.457	0.020	0.0069	mg/L	0.500	ND	91.3	75-125	NA	NA	

Matrix Spike Duplicate (B9I0263-MSD1)

Source: 0905016-01 Prepared: 09/14/09 Analyzed: 09/15/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	0.443	0.020	0.0069	mg/L	0.500	ND	88.6	75-125	3.00	20	

Batch B9I0328 - EPA 351.2

Method Blank (B9I0328-BLK1)

Prepared: 09/16/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	<0.50	0.50	0.17	mg/L	NA	NA	NA	NA	NA	NA	

Laboratory Control Sample (B9I0328-BS1)

Prepared: 09/16/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	2.60	0.50	0.17	mg/L	2.50	NA	104	90-110	NA	NA	

Laboratory Control Sample Duplicate (B9I0328-BSD1)

Prepared: 09/16/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	2.54	0.50	0.17	mg/L	2.50	NA	101	90-110	2.30	20	

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Classical Chemistry Parameters - Quality Control

Batch B9I0328 - EPA 351.2

Matrix Spike (B9I0328-MS1) **Source: 0904909-01** Prepared: 09/16/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	2.73	0.50	0.17	mg/L	2.50	ND	109	90-110	NA	NA	

Matrix Spike Duplicate (B9I0328-MSD1) **Source: 0904909-01** Prepared: 09/16/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	2.54	0.50	0.17	mg/L	2.50	ND	102	90-110	6.94	20	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0270 - EPA 3510C

Method Blank (B9I0270-BLK1)

Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
4,4'-DDE	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
4,4'-DDT	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
Aldrin	<0.018	0.25	0.018	ug/L	NA	NA	NA	NA	NA	NA	
alpha-BHC	<0.021	0.25	0.021	ug/L	NA	NA	NA	NA	NA	NA	
alpha-Chlordane	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
beta-BHC	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
delta-BHC	<0.014	0.25	0.014	ug/L	NA	NA	NA	NA	NA	NA	
Dieldrin	<0.024	0.25	0.024	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan I	<0.021	0.25	0.021	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan II	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan Sulfate	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
Endrin	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
Endrin Aldehyde	<0.040	0.25	0.040	ug/L	NA	NA	NA	NA	NA	NA	
Endrin Ketone	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
gamma-BHC	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
gamma-Chlordane	<0.042	0.25	0.042	ug/L	NA	NA	NA	NA	NA	NA	
Heptachlor	<0.018	0.25	0.018	ug/L	NA	NA	NA	NA	NA	NA	
Heptachlor Epoxide	<0.038	0.25	0.038	ug/L	NA	NA	NA	NA	NA	NA	
Methoxychlor	<0.026	0.25	0.026	ug/L	NA	NA	NA	NA	NA	NA	
Toxaphene	<1.0	5.0	1.0	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: DBC	*2.41*			ug/L	*2.50*	*NA*	*96.2*	*40-130*			
Surrogate: TCMX	*1.77*			ug/L	*2.50*	*NA*	*71.0*	*40-120*			

Laboratory Control Sample (B9I0270-BS2)

Prepared: 09/14/09 Analyzed: 09/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.20	0.25	0.016	ug/L	2.50	NA	88.0	80-120	NA	NA	
4,4'-DDE	1.95	0.25	0.016	ug/L	2.50	NA	78.0	80-120	NA	NA	
4,4'-DDT	1.86	0.25	0.020	ug/L	2.50	NA	74.5	80-120	NA	NA	
Aldrin	1.84	0.25	0.018	ug/L	2.50	NA	73.7	60-110	NA	NA	
alpha-BHC	2.22	0.25	0.021	ug/L	2.50	NA	88.6	70-120	NA	NA	
alpha-Chlordane	2.11	0.25	0.016	ug/L	2.50	NA	84.2	80-120	NA	NA	
beta-BHC	2.48	0.25	0.016	ug/L	2.50	NA	99.2	80-120	NA	NA	
delta-BHC	2.45	0.25	0.014	ug/L	2.50	NA	98.1	80-120	NA	NA	
Dieldrin	2.29	0.25	0.024	ug/L	2.50	NA	91.5	80-120	NA	NA	
Endosulfan I	2.25	0.25	0.021	ug/L	2.50	NA	89.8	80-120	NA	NA	
Endosulfan II	2.28	0.25	0.019	ug/L	2.50	NA	91.3	80-120	NA	NA	
Endosulfan Sulfate	2.35	0.25	0.019	ug/L	2.50	NA	94.2	80-120	NA	NA	
Endrin	2.33	0.25	0.020	ug/L	2.50	NA	93.0	80-120	NA	NA	
Endrin Aldehyde	2.42	0.25	0.040	ug/L	2.50	NA	96.9	80-120	NA	NA	
Endrin Ketone	2.63	0.25	0.019	ug/L	2.50	NA	105	80-120	NA	NA	
gamma-BHC	2.38	0.25	0.020	ug/L	2.50	NA	95.1	80-120	NA	NA	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904922
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0270 - EPA 3510C

Laboratory Control Sample (B9I0270-BS2)

Prepared: 09/14/09 Analyzed: 09/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
gamma-Chlordane	2.18	0.25	0.042	ug/L	2.50	NA	87.2	80-120	NA	NA	
Heptachlor	1.82	0.25	0.018	ug/L	2.50	NA	73.0	60-110	NA	NA	
Heptachlor Epoxide	2.28	0.25	0.038	ug/L	2.50	NA	91.1	80-120	NA	NA	
Methoxychlor	2.08	0.25	0.026	ug/L	2.50	NA	83.3	80-120	NA	NA	
Surrogate: DBC	*2.08*			ug/L	*2.50*	*NA*	*83.1*	*40-130*			
Surrogate: TCMX	*1.64*			ug/L	*2.50*	*NA*	*65.7*	*40-120*			

Laboratory Control Sample Duplicate (B9I0270-BSD2)

Prepared: 09/14/09 Analyzed: 09/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.27	0.25	0.016	ug/L	2.50	NA	90.9	80-120	3.18	25	
4,4'-DDE	2.01	0.25	0.016	ug/L	2.50	NA	80.5	80-120	3.15	25	
4,4'-DDT	1.92	0.25	0.020	ug/L	2.50	NA	76.8	80-120	3.07	25	
Aldrin	1.93	0.25	0.018	ug/L	2.50	NA	77.4	60-110	4.90	25	
alpha-BHC	2.20	0.25	0.021	ug/L	2.50	NA	87.9	70-120	0.843	25	
alpha-Chlordane	2.10	0.25	0.016	ug/L	2.50	NA	84.0	80-120	0.296	25	
beta-BHC	2.43	0.25	0.016	ug/L	2.50	NA	97.1	80-120	2.10	25	
delta-BHC	2.42	0.25	0.014	ug/L	2.50	NA	96.8	80-120	1.27	25	
Dieldrin	2.29	0.25	0.024	ug/L	2.50	NA	91.8	80-120	0.241	25	
Endosulfan I	2.22	0.25	0.021	ug/L	2.50	NA	88.9	80-120	1.08	25	
Endosulfan II	2.27	0.25	0.019	ug/L	2.50	NA	90.7	80-120	0.581	25	
Endosulfan Sulfate	2.30	0.25	0.019	ug/L	2.50	NA	92.0	80-120	2.26	25	
Endrin	2.32	0.25	0.020	ug/L	2.50	NA	92.6	80-120	0.394	25	
Endrin Aldehyde	2.39	0.25	0.040	ug/L	2.50	NA	95.6	80-120	1.36	25	
Endrin Ketone	2.54	0.25	0.019	ug/L	2.50	NA	102	80-120	3.21	25	
gamma-BHC	2.32	0.25	0.020	ug/L	2.50	NA	93.0	80-120	2.23	25	
gamma-Chlordane	2.23	0.25	0.042	ug/L	2.50	NA	89.3	80-120	2.34	25	
Heptachlor	1.87	0.25	0.018	ug/L	2.50	NA	74.8	60-110	2.54	25	
Heptachlor Epoxide	2.24	0.25	0.038	ug/L	2.50	NA	89.7	80-120	1.49	25	
Methoxychlor	2.11	0.25	0.026	ug/L	2.50	NA	84.5	80-120	1.52	25	
Surrogate: DBC	*2.21*			ug/L	*2.50*	*NA*	*88.3*	*40-130*			
Surrogate: TCMX	*1.71*			ug/L	*2.50*	*NA*	*68.3*	*40-120*			

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0270 - EPA 3510C

Matrix Spike (B9I0270-MS1)

Source: 0905025-01 Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.25	0.27	0.017	ug/L	2.66	ND	84.5	50-130	NA	NA	
4,4'-DDE	1.88	0.27	0.017	ug/L	2.66	ND	70.7	50-130	NA	NA	
4,4'-DDT	1.76	0.27	0.021	ug/L	2.66	ND	66.1	50-130	NA	NA	
Aldrin	2.03	0.27	0.019	ug/L	2.66	ND	76.3	50-130	NA	NA	
alpha-Chlordane	2.31	0.27	0.017	ug/L	2.66	ND	86.7	50-130	NA	NA	
beta-BHC	2.68	0.27	0.017	ug/L	2.66	ND	101	50-130	NA	NA	
delta-BHC	2.73	0.27	0.015	ug/L	2.66	ND	103	50-130	NA	NA	
Dieldrin	2.49	0.27	0.025	ug/L	2.66	ND	93.5	50-130	NA	NA	
Endosulfan I	2.46	0.27	0.022	ug/L	2.66	ND	92.5	50-130	NA	NA	
Endosulfan II	2.43	0.27	0.020	ug/L	2.66	ND	91.5	50-130	NA	NA	
Endosulfan Sulfate	2.47	0.27	0.021	ug/L	2.66	ND	92.7	50-130	NA	NA	
Endrin	2.34	0.27	0.021	ug/L	2.66	ND	88.0	50-130	NA	NA	
Endrin Aldehyde	2.60	0.27	0.043	ug/L	2.66	ND	97.8	50-130	NA	NA	
Endrin Ketone	2.52	0.27	0.020	ug/L	2.66	ND	94.9	50-130	NA	NA	
gamma-BHC	2.56	0.27	0.021	ug/L	2.66	ND	96.3	50-130	NA	NA	
gamma-Chlordane	2.33	0.27	0.045	ug/L	2.66	ND	87.7	50-130	NA	NA	
Heptachlor	2.06	0.27	0.019	ug/L	2.66	ND	77.6	50-130	NA	NA	
Heptachlor Epoxide	2.48	0.27	0.041	ug/L	2.66	ND	93.1	50-130	NA	NA	
Methoxychlor	2.15	0.27	0.028	ug/L	2.66	ND	80.9	50-130	NA	NA	
Surrogate: DBC	*2.12*			ug/L	*2.66*	*NA*	*79.8*	*40-130*			
Surrogate: TCMX	*2.17*			ug/L	*2.66*	*NA*	*81.5*	*40-120*			

Matrix Spike Duplicate (B9I0270-MSD1)

Source: 0905025-01 Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.44	0.27	0.017	ug/L	2.73	ND	89.3	50-130	8.29	25	
4,4'-DDE	2.16	0.27	0.017	ug/L	2.73	ND	79.1	50-130	13.9	25	
4,4'-DDT	2.00	0.27	0.021	ug/L	2.73	ND	73.2	50-130	12.9	25	
Aldrin	2.22	0.27	0.019	ug/L	2.73	ND	81.4	50-130	9.24	25	
alpha-BHC	2.52	0.27	0.023	ug/L	2.73	ND	92.2	50-130	0.289	25	
alpha-Chlordane	2.50	0.27	0.017	ug/L	2.73	ND	91.5	50-130	8.06	25	
beta-BHC	2.71	0.27	0.017	ug/L	2.73	ND	99.2	50-130	0.923	25	
delta-BHC	2.74	0.27	0.015	ug/L	2.73	ND	100	50-130	0.220	25	
Dieldrin	2.62	0.27	0.026	ug/L	2.73	ND	95.9	50-130	5.19	25	
Endosulfan I	2.58	0.27	0.023	ug/L	2.73	ND	94.6	50-130	4.88	25	
Endosulfan II	2.53	0.27	0.021	ug/L	2.73	ND	92.7	50-130	4.00	25	
Endosulfan Sulfate	2.56	0.27	0.021	ug/L	2.73	ND	93.9	50-130	3.91	25	
Endrin	2.46	0.27	0.022	ug/L	2.73	ND	89.9	50-130	4.81	25	
Endrin Aldehyde	2.68	0.27	0.044	ug/L	2.73	ND	98.0	50-130	2.88	25	
Endrin Ketone	2.59	0.27	0.021	ug/L	2.73	ND	94.9	50-130	2.72	25	
gamma-BHC	2.57	0.27	0.022	ug/L	2.73	ND	94.2	50-130	0.433	25	
gamma-Chlordane	2.53	0.27	0.046	ug/L	2.73	ND	92.7	50-130	8.18	25	
Heptachlor	2.21	0.27	0.019	ug/L	2.73	ND	80.8	50-130	6.74	25	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0270 - EPA 3510C

Matrix Spike Duplicate (B9I0270-MSD1) **Source: 0905025-01** Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Heptachlor Epoxide	2.58	0.27	0.042	ug/L	2.73	ND	94.6	50-130	4.29	25	
Methoxychlor	2.32	0.27	0.029	ug/L	2.73	ND	84.8	50-130	7.41	25	
Surrogate: DBC	*2.29*			ug/L	*2.73*	*NA*	*83.8*	*40-130*			
Surrogate: TCMX	*2.01*			ug/L	*2.73*	*NA*	*73.6*	*40-120*			

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0274 - EPA 3510C

Method Blank (B9I0274-BLK1)

Prepared: 09/15/09 Analyzed: 09/16/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	<0.25	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Alachlor	<0.19	0.50	0.19	ug/L	NA	NA	NA	NA	NA	NA	
Atrazine	<0.24	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	<0.34	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Cyanazine	<0.48	0.50	0.48	ug/L	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	<0.26	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
Desethylatrazine	<0.29	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Dimethenamid	<0.24	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
EPTC	<0.22	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Ethalfluralin	<0.47	0.50	0.47	ug/L	NA	NA	NA	NA	NA	NA	
Fonofos	<0.30	0.50	0.30	ug/L	NA	NA	NA	NA	NA	NA	
Metolachlor	<0.28	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
Metribuzin	<0.35	0.50	0.35	ug/L	NA	NA	NA	NA	NA	NA	
Pendimethalin	<0.25	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Phorate	<0.58	1.0	0.58	ug/L	NA	NA	NA	NA	NA	NA	
Prometon	<0.29	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Propachlor	<0.14	0.50	0.14	ug/L	NA	NA	NA	NA	NA	NA	
Propazine	<0.21	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Simazine	<0.32	0.50	0.32	ug/L	NA	NA	NA	NA	NA	NA	
Terbufos	<0.54	1.0	0.54	ug/L	NA	NA	NA	NA	NA	NA	
Triallate	<0.34	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Trifluralin	<0.21	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: Atrazine-d5	*9.65*			ug/L	*10.0*	*NA*	*96.5*	*50-120*			
Surrogate: Diazinon-d10	*9.12*			ug/L	*10.0*	*NA*	*91.2*	*50-120*			

Laboratory Control Sample (B9I0274-BS1)

Prepared: 09/15/09 Analyzed: 09/16/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	10.0	0.50	0.25	ug/L	10.0	NA	100	65-115	NA	NA	
Alachlor	10.4	0.50	0.19	ug/L	10.0	NA	104	65-115	NA	NA	
Atrazine	10.0	0.50	0.24	ug/L	10.0	NA	100	65-115	NA	NA	
Chlorpyrifos	9.83	0.50	0.34	ug/L	10.0	NA	98.3	65-115	NA	NA	
Cyanazine	10.4	0.50	0.48	ug/L	10.0	NA	104	65-115	NA	NA	
Deisopropylatrazine	7.97	0.50	0.26	ug/L	10.0	NA	79.7	65-115	NA	NA	
Desethylatrazine	10.2	0.50	0.29	ug/L	10.0	NA	102	65-115	NA	NA	
Dimethenamid	10.7	0.50	0.24	ug/L	10.0	NA	107	65-115	NA	NA	
EPTC	8.39	0.50	0.22	ug/L	10.0	NA	83.9	50-110	NA	NA	
Ethalfluralin	9.88	0.50	0.47	ug/L	10.0	NA	98.8	65-115	NA	NA	
Fonofos	10.2	0.50	0.30	ug/L	10.0	NA	102	55-115	NA	NA	
Metolachlor	10.5	0.50	0.28	ug/L	10.0	NA	105	70-120	NA	NA	
Metribuzin	10.2	0.50	0.35	ug/L	10.0	NA	102	70-120	NA	NA	
Pendimethalin	10.8	0.50	0.25	ug/L	10.0	NA	108	65-115	NA	NA	
Phorate	9.67	1.0	0.58	ug/L	10.0	NA	96.7	30-100	NA	NA	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0274 - EPA 3510C

Laboratory Control Sample (B9I0274-BS1)

Prepared: 09/15/09 Analyzed: 09/16/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	10.4	0.50	0.29	ug/L	10.0	NA	104	70-120	NA	NA	
Propachlor	9.92	0.50	0.14	ug/L	10.0	NA	99.2	65-115	NA	NA	
Propazine	10.2	0.50	0.21	ug/L	10.0	NA	102	65-115	NA	NA	
Simazine	8.82	0.50	0.32	ug/L	10.0	NA	88.2	65-115	NA	NA	
Terbufos	8.97	1.0	0.54	ug/L	10.0	NA	89.7	30-100	NA	NA	
Triallate	9.91	0.50	0.34	ug/L	10.0	NA	99.1	65-115	NA	NA	
Trifluralin	9.42	0.50	0.21	ug/L	10.0	NA	94.2	65-115	NA	NA	
Surrogate: Atrazine-d5	*8.77*			ug/L	*10.0*	*NA*	*87.7*	*50-120*			
Surrogate: Diazinon-d10	*8.53*			ug/L	*10.0*	*NA*	*85.3*	*50-120*			

Laboratory Control Sample Duplicate (B9I0274-BSD1)

Prepared: 09/15/09 Analyzed: 09/16/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	10.4	0.50	0.25	ug/L	10.0	NA	104	65-115	3.04	25	
Alachlor	10.7	0.50	0.19	ug/L	10.0	NA	107	65-115	2.94	25	
Atrazine	10.3	0.50	0.24	ug/L	10.0	NA	103	65-115	2.66	25	
Chlorpyrifos	9.96	0.50	0.34	ug/L	10.0	NA	99.6	65-115	1.31	25	
Cyanazine	10.5	0.50	0.48	ug/L	10.0	NA	105	65-115	1.15	25	
Deisopropylatrazine	8.43	0.50	0.26	ug/L	10.0	NA	84.3	65-115	5.61	25	
Desethylatrazine	10.1	0.50	0.29	ug/L	10.0	NA	101	65-115	1.18	25	
Dimethenamid	10.6	0.50	0.24	ug/L	10.0	NA	106	65-115	1.04	25	
EPTC	8.31	0.50	0.22	ug/L	10.0	NA	83.1	50-110	0.958	30	
Ethalfluralin	10.4	0.50	0.47	ug/L	10.0	NA	104	65-115	5.61	30	
Fonofos	10.2	0.50	0.30	ug/L	10.0	NA	102	55-115	0.393	30	
Metolachlor	10.6	0.50	0.28	ug/L	10.0	NA	106	70-120	1.14	25	
Metribuzin	10.5	0.50	0.35	ug/L	10.0	NA	105	70-120	3.18	25	
Pendimethalin	11.0	0.50	0.25	ug/L	10.0	NA	110	65-115	1.92	25	
Phorate	9.58	1.0	0.58	ug/L	10.0	NA	95.8	30-100	0.935	30	
Prometon	10.4	0.50	0.29	ug/L	10.0	NA	104	70-120	0.287	30	
Propachlor	10.2	0.50	0.14	ug/L	10.0	NA	102	65-115	2.98	30	
Propazine	10.4	0.50	0.21	ug/L	10.0	NA	104	65-115	2.03	25	
Simazine	9.37	0.50	0.32	ug/L	10.0	NA	93.7	65-115	6.05	25	
Terbufos	9.62	1.0	0.54	ug/L	10.0	NA	96.2	30-100	6.99	30	
Triallate	10.0	0.50	0.34	ug/L	10.0	NA	100	65-115	1.30	25	
Trifluralin	9.56	0.50	0.21	ug/L	10.0	NA	95.6	65-115	1.48	25	
Surrogate: Atrazine-d5	*9.10*			ug/L	*10.0*	*NA*	*91.0*	*50-120*			
Surrogate: Diazinon-d10	*9.04*			ug/L	*10.0*	*NA*	*90.4*	*50-120*			

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0274 - EPA 3510C

Duplicate (B9I0274-DUP1) **Source: 0904909-01** Prepared: 09/15/09 Analyzed: 09/16/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	<0.31	0.61	0.31	ug/L	NA	ND	NA	NA	NA	30	
Alachlor	<0.23	0.61	0.23	ug/L	NA	ND	NA	NA	NA	30	
Atrazine	0.871	0.61	0.29	ug/L	NA	0.731	NA	NA	17.5	30	
Chlorpyrifos	<0.41	0.61	0.41	ug/L	NA	ND	NA	NA	NA	30	
Cyanazine	<0.59	0.61	0.59	ug/L	NA	ND	NA	NA	NA	30	
Deisopropylatrazine	<0.32	0.61	0.32	ug/L	NA	ND	NA	NA	NA	30	
Desethylatrazine	0.491 J	0.61	0.36	ug/L	NA	0.449	NA	NA	8.96	30	
Dimethenamid	<0.29	0.61	0.29	ug/L	NA	ND	NA	NA	NA	30	
EPTC	<0.26	0.61	0.26	ug/L	NA	ND	NA	NA	NA	30	
Ethalfluralin	<0.57	0.61	0.57	ug/L	NA	ND	NA	NA	NA	30	
Fonofos	<0.36	0.61	0.36	ug/L	NA	ND	NA	NA	NA	30	
Metolachlor	<0.34	0.61	0.34	ug/L	NA	ND	NA	NA	NA	30	
Metribuzin	<0.43	0.61	0.43	ug/L	NA	ND	NA	NA	NA	30	
Pendimethalin	<0.31	0.61	0.31	ug/L	NA	ND	NA	NA	NA	30	
Phorate	<0.72	1.2	0.72	ug/L	NA	ND	NA	NA	NA	30	
Prometon	<0.36	0.61	0.36	ug/L	NA	ND	NA	NA	NA	30	
Propachlor	<0.17	0.61	0.17	ug/L	NA	ND	NA	NA	NA	30	
Propazine	<0.25	0.61	0.25	ug/L	NA	ND	NA	NA	NA	30	
Simazine	<0.39	0.61	0.39	ug/L	NA	ND	NA	NA	NA	30	
Terbufos	<0.67	1.2	0.67	ug/L	NA	ND	NA	NA	NA	30	
Triallate	<0.41	0.61	0.41	ug/L	NA	ND	NA	NA	NA	30	
Trifluralin	<0.26	0.61	0.26	ug/L	NA	ND	NA	NA	NA	30	
Surrogate: Atrazine-d5	*11.2*			ug/L	*12.3*	*NA*	*90.9*	*50-120*			
Surrogate: Diazinon-d10	*11.2*			ug/L	*12.3*	*NA*	*91.5*	*50-120*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904922
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0295 - EPA 3510C

Method Blank (B9I0295-BLK1)

Prepared: 09/15/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	<0.50	0.50	0.31	ug/L	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	<0.50	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D	<0.50	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D.B.	<0.50	0.50	0.15	ug/L	NA	NA	NA	NA	NA	NA	
Bentazon	<0.50	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Dicamba	<0.50	0.50	0.38	ug/L	NA	NA	NA	NA	NA	NA	
Dinoseb	<0.50	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
M.C.P.A.	<0.30	0.30	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	<0.50	0.50	0.39	ug/L	NA	NA	NA	NA	NA	NA	
Picloram	<0.50	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Triclopyr	<0.50	0.50	0.41	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	*3.76*			ug/L	*5.00*	*NA*	*75.2*	*65-130*			

Laboratory Control Sample (B9I0295-BS1)

Prepared: 09/15/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.29	0.50	0.31	ug/L	5.00	NA	85.8	70-130	NA	NA	
2,4,5-T.P.	4.28	0.50	0.28	ug/L	5.00	NA	85.6	70-130	NA	NA	
2,4-D	4.02	0.50	0.26	ug/L	5.00	NA	80.4	70-130	NA	NA	
2,4-D.B.	3.95	0.50	0.15	ug/L	5.00	NA	79.0	75-140	NA	NA	
Bentazon	4.04	0.50	0.22	ug/L	5.00	NA	80.8	75-135	NA	NA	
Dicamba	3.91	0.50	0.38	ug/L	5.00	NA	78.2	65-130	NA	NA	
Dinoseb	3.09	0.50	0.34	ug/L	5.00	NA	61.8	40-125	NA	NA	
M.C.P.A.	4.02	0.30	0.29	ug/L	5.00	NA	80.4	70-130	NA	NA	
Pentachlorophenol	3.87	0.50	0.39	ug/L	5.00	NA	77.4	70-120	NA	NA	
Picloram	3.47	0.50	0.25	ug/L	5.00	NA	69.4	60-125	NA	NA	
Triclopyr	4.23	0.50	0.41	ug/L	5.00	NA	84.6	75-125	NA	NA	
Surrogate: D.C.A.A.	*3.85*			ug/L	*5.00*	*NA*	*77.0*	*65-130*			

Laboratory Control Sample Duplicate (B9I0295-BSD1)

Prepared: 09/15/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.39	0.50	0.31	ug/L	5.00	NA	87.8	70-130	2.30	20	
2,4,5-T.P.	4.08	0.50	0.28	ug/L	5.00	NA	81.6	70-130	4.78	20	
2,4-D	4.04	0.50	0.26	ug/L	5.00	NA	80.8	70-130	0.496	20	
2,4-D.B.	4.06	0.50	0.15	ug/L	5.00	NA	81.2	75-140	2.75	20	
Bentazon	3.86	0.50	0.22	ug/L	5.00	NA	77.2	75-135	4.56	20	
Dicamba	3.81	0.50	0.38	ug/L	5.00	NA	76.2	65-130	2.59	20	
Dinoseb	2.80	0.50	0.34	ug/L	5.00	NA	56.0	40-125	9.85	20	
M.C.P.A.	4.11	0.30	0.29	ug/L	5.00	NA	82.2	70-130	2.21	20	
Pentachlorophenol	3.47	0.50	0.39	ug/L	5.00	NA	69.4	70-120	10.9	20	
Picloram	3.48	0.50	0.25	ug/L	5.00	NA	69.6	60-125	0.288	20	
Triclopyr	4.06	0.50	0.41	ug/L	5.00	NA	81.2	75-125	4.10	20	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0295 - EPA 3510C

Laboratory Control Sample Duplicate (B9I0295-BSD1)

Prepared: 09/15/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: D.C.A.A.	*3.66*			ug/L	*5.00*	*NA*	*73.2*	*65-130*			

Matrix Spike (B9I0295-MS1)

Source: 0904909-01 Prepared: 09/15/09 Analyzed: 09/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.01	0.50	0.31	ug/L	5.00	ND	80.2	70-140	NA	NA	
2,4,5-T.P.	3.95	0.50	0.28	ug/L	5.00	ND	79.0	70-135	NA	NA	
2,4-D	3.83	0.50	0.26	ug/L	5.00	ND	76.6	70-140	NA	NA	
2,4-D.B.	3.73	0.50	0.15	ug/L	5.00	ND	74.6	75-140	NA	NA	
Bentazon	3.72	0.50	0.22	ug/L	5.00	ND	74.4	70-140	NA	NA	
Dicamba	3.77	0.50	0.38	ug/L	5.00	ND	75.4	65-140	NA	NA	
Dinoseb	3.23	0.50	0.34	ug/L	5.00	ND	64.6	40-130	NA	NA	
M.C.P.A.	3.92	0.30	0.29	ug/L	5.00	ND	78.4	60-140	NA	NA	
Pentachlorophenol	3.63	0.50	0.39	ug/L	5.00	ND	72.6	70-125	NA	NA	
Picloram	3.49	0.50	0.25	ug/L	5.00	ND	69.8	45-140	NA	NA	
Triclopyr	3.93	0.50	0.41	ug/L	5.00	ND	78.6	75-125	NA	NA	
Surrogate: D.C.A.A.	*3.75*			ug/L	*5.00*	*NA*	*75.0*	*65-130*			

Matrix Spike Duplicate (B9I0295-MSD1)

Source: 0904909-01 Prepared: 09/15/09 Analyzed: 09/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	3.90	0.50	0.31	ug/L	5.00	ND	78.0	70-140	2.78	25	
2,4,5-T.P.	3.61	0.50	0.28	ug/L	5.00	ND	72.2	70-135	8.99	25	
2,4-D	3.69	0.50	0.26	ug/L	5.00	ND	73.8	70-140	3.72	25	
2,4-D.B.	3.74	0.50	0.15	ug/L	5.00	ND	74.8	75-140	0.268	25	
Bentazon	3.30	0.50	0.22	ug/L	5.00	ND	66.0	70-140	12.0	25	
Dicamba	3.70	0.50	0.38	ug/L	5.00	ND	74.0	65-140	1.87	25	
Dinoseb	2.99	0.50	0.34	ug/L	5.00	ND	59.8	40-130	7.72	25	
M.C.P.A.	3.48	0.30	0.29	ug/L	5.00	ND	69.6	60-140	11.9	25	
Pentachlorophenol	3.22	0.50	0.39	ug/L	5.00	ND	64.4	70-125	12.0	25	
Picloram	3.03	0.50	0.25	ug/L	5.00	ND	60.6	45-140	14.1	25	
Triclopyr	3.63	0.50	0.41	ug/L	5.00	ND	72.6	75-125	7.94	25	
Surrogate: D.C.A.A.	*3.54*			ug/L	*5.00*	*NA*	*70.8*	*65-130*			

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UMP018735

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0904922
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

0904922

BARR ***Chain of Custody***

4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number: 23/19-B05 SIRI 300

Project Name: UMA SSI/RI

Sample Origination State: MN (use two letter postal state abbreviation)

COC Number: № 29010

Number of Containers/Preservative — Water: VOCs (HCl) #1; SVOCs (unpreserved) #2; Dissolved Metals (HNO_3); Total Metals (HNO_3); General (unpreserved) #3; Diesel Range Organics (HCl); Nutrients (H_2SO_4) #4. Soil: VOCs (tared MeOH) #1; GRO, BTEX (tared MeOH) #1; DRO (tared unpreserved); Metals (unpreserved); SVOCs (unpreserved) #2; % Solids (plastic vial, unprec.)

COC 1 of 1

Project Manager: JME

Project QC Contact: KJN

Sampled by: SJC

Laboratory: Braun

Location	Start Depth	Stop Depth	Depth Unit (m/ft or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp	Type: QC	Water: VOCs (HCl) #1	Water: SVOCs (unpreserved) #2	Water: Dissolved Metals (HNO_3)	Water: Total Metals (HNO_3)	Water: General (unpreserved) #3	Water: Diesel Range Organics (HCl)	Water: Nutrients (H_2SO_4) #4	Water: List 1+2 Pesticides	Water: OC Pesticides	Water: Nitrogen	Soil: VOCs (tared MeOH) #1	Soil: GRO, BTEX (tared MeOH) #1	Soil: DRO (tared unpreserved)	Soil: Metals (unpreserved)	Soil: SVOCs (unpreserved) #2	Soil: % Solids (plastic vial, unprec.)	Total Number Of Containers	
1. SOCS-GP11	—	—	—	9/9/09	0900	X		X										4	2	1							7	List 1+2 Pesticides, OC Pest., Nitrogen. See attached list
2.																												
3.																												
4.																												
5.																												
6.																												
7.																												
8.																												
9.																												
10.																												

Common Parameter/Container - Preservation Key

#1 - Volatile Organics = BTEX, GRO, TPH, 8260 Full List
#2 - Semivolatile Organics = PAHs, PCP, Dioxins, 8270 Full List, Herbicide\Pesticide\PCBs
#3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
#4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
Sally Considine	(Y) N	9-10-09	0845			
Relinquished By:	**On Ice? Y N**	**Date**	**Time**	**Received by:**	**Date**	**Time**
				[illegible]	9/10/09	1045

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other: _____

Air Bill Number: 4.3°C +1 CG KTB + CS

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

H:\RLG\STEF\FORMS\Chain Of Custody Form 2009 RLG Rev. 09/21/09

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Web: braunintertec.com

Ms. Kelly Neppl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

October 20, 2009

Work Order #: 0904966
(Revised)

RE: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300

Dear Kelly Neppl:

Braun Intertec Corporation received samples for the project identified above on September 11, 2009. Analytical results are summarized in the following report.

All routine quality assurance procedures were followed, unless otherwise noted.

Analytical results are reported on an "as received" basis unless otherwise noted. Where possible, the samples will be retained by the laboratory for 14 days following issuance of the initial final report. The samples will be disposed of or returned at that time. Arrangements can be made for extended storage by contacting me at this time.

We appreciate your decision to use Braun Intertec Corporation for this project. We are committed to being your vendor of choice to meet your analytical chemistry needs.

If you have any questions please contact me at the above phone number.

Sincerely,

Steven J. Albrecht

Steven J. Albrecht
Associate Principal

Certification/Accreditation Numbers

Minnesota Department of Health: 027-053-117 Wisconsin DNR: 999462640

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904966
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

How to Use this Report

In order to get the most out of the information presented in this report please refer to the following explanations as to how the data in this report is tied together and how some of the terms are defined.

Qualifiers and Abbreviations are defined in the following section. You will find these codes used throughout the report in headers and in note sections to designate a unique fact about the data to which they are associated.

The Case Narrative gives a "story" about the analysis and results. Here you will find greater elaboration on relevant qualifiers as well as an explanation of anything of particular note in the data. This is a discussion of the data in terms of quality control and chemistry. It is a summary of any deviations that could affect the usefulness of the data. This is not an interpretation as to how this information relates to regulatory compliance, toxicity, or hazardous characterization. These items are beyond the scope of this report.

The Sample Summary provides detail on sample receipt. The association between Client sample ID and the Laboratory sample ID are defined here; this information is valuable to have when discussing results with your project manager. Sample collection and receipt dates and times are provided here as well. General notes regarding the work order are also documented here. This is a mini "case narrative" that describes any anomalies regarding the condition of the samples upon arrival to the laboratory or special circumstances regarding the work order.

The Conditions Upon Receipt summarizes the results of specific checks that have been performed at sample receipt. This includes items like custody documentation, sample condition, and temperature at receipt. Each "cooler" is identified and the conditions associated with that cooler are documented. A "cooler" is defined as the larger container used to transport the individual samples. In most cases this is a standard recreational cooler but it can be a box, plastic bag, or other container.

The laboratory results are summarized in the following sections. Data is broken down into major categories for convenience. An example of such a category would be "Total Petroleum Hydrocarbons." Here you would find data that references the testing of such parameters as diesel range organics and gasoline range organics. Other categories are similarly mapped. The batch number is associated with each sample. This is important to evaluate Quality Control (QC) data. Surrogate results samples are provided with each sample. Laboratory control limits are provided for comparison (see below). The reference method is also identified. If a method is denoted with an "M" (e.g. EPA 1234(M)) this means that it has been modified. An explanation of the modification will be found in the Case Narrative. A result is given with appropriate units. If a soil sample is dry-weight corrected then the word "dry" will appear next to the units. If the word "dry" does not appear then the result is "as received."

The Method Reporting Limit (MRL) and Method Detection Limit (MDL) are provided. It is important to understand these terms. The MRL is a level that has been empirically verified to provide reliable quantitation of results. Results that are equal to or greater than this value will show up in bold. They are considered "hits." The MDL is a statistically derived number that indicates an estimated concentration at which an analyte can be detected above the noise level. If a result is less than the MRL but greater than the MDL then it is considered an estimate. Such a result is reported with a "J" flag denoting that it has been detected but that the result is an estimate.

In this specific report format, the majority of the analyses are reported without estimated concentrations less than the MRL. For these analyses, if a result is less than the MRL, the result is given as less than the MRL (e.g. if the MRL = 10 then a less than result would be given as "<10"). However, for the Organochlorine Pesticides in water and MDA List 1 Pesticides in water analyses, if a result is less than the MRL but greater than the MDL, then an estimated result is reported with a "J" flag. If a result for either of these two analyses is less than the MDL, then the result is given as less than the MDL.

The Quality Control (QC) samples are documented in the following section. Here you will find the preparation batches associated with each sample from the results section. The sample preparation method is also defined here. Accuracy is represented here in terms of a percent recovery as compared to a known value. Precision is represented as a relative percent difference between two duplicate sample aliquots. The laboratory control limits are provided as a means to evaluate the quality control data. If the result falls outside the laboratory control limits this simply means that it is outside what is typical for the laboratory and is noted accordingly. This does not mean that the data is invalid. Laboratory control limits are generally tighter than most program limits. This is a very important distinction. How the data is ultimately used determines its validity. Program requirements are defined in the Quality Assurance Project Plan (QAPP) governing the project. If your project manager is aware of your specific program requirements then a note will be made in the case narrative if the data fails to meet any of these requirements.

The last section contains copies of important documents and/or instrument printouts relevant to the report. This includes the chain of custody. It also may include items like chromatograms or spectra.

Please note that this report is paginated and must be reproduced in its entirety.

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Qualifiers and Abbreviations

qn	The spike recovery is outside of laboratory control limits for the matrix spike (MS) and/or the matrix spike duplicate (MSD).
J	Detected but below the Method Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
COC	Chain of Custody
dry	Sample results reported on a dry weight basis
MDL	Method Detection Limit
MRL	Method Reporting Limit
NA	Not Applicable
ND	Analyte NOT DETECTED
NR	Not Reported
%Rec	Percent Recovery
RPD	Relative Percent Difference
VOC	Volatile Organic Compound

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC4-GP4 (1-2)	0904966-01	Soil	09/10/09 13:00	09/11/09 10:15
Dup-2 (Geoprobe)	0904966-02	Soil	09/10/09 12:00	09/11/09 10:15
SOC4-GP4	0904966-03	Water	09/10/09 15:00	09/11/09 10:15
SOC4-GP5	0904966-04	Water	09/10/09 17:00	09/11/09 10:15

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Conditions Upon Receipt

Cooler: Cooler 1

Temperature:	5.3 °C	**COC Included:**	Yes	**Custody Seals Used:**	Yes
Temperature Blank:	Yes	**COC Complete:**	Yes	**Custody Seals Intact:**	Yes
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	No
Preservation Confirmed:	No	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC4-GP4 (1-2)

0904966-01 (Soil)

9/10/09 13:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**86**	0.050	0.010	% Wt	B9I0264	9/14/09 11:53	9/16/09 13:24	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.085	0.085	0.0051	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:31	EPA 8081A	
4,4'-DDE	<0.085	0.085	0.0088	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:31	EPA 8081A	
4,4'-DDT	<0.085	0.085	0.0078	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:31	EPA 8081A	
Aldrin	<0.085	0.085	0.011	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:31	EPA 8081A	
alpha-BHC	<0.085	0.085	0.0078	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:31	EPA 8081A	
alpha-Chlordane	<0.085	0.085	0.0068	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:31	EPA 8081A	
beta-BHC	<0.085	0.085	0.0078	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:31	EPA 8081A	
delta-BHC	<0.085	0.085	0.0061	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:31	EPA 8081A	
Dieldrin	<0.085	0.085	0.0075	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:31	EPA 8081A	
Endosulfan I	<0.085	0.085	0.0095	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:31	EPA 8081A	
Endosulfan II	<0.085	0.085	0.0071	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:31	EPA 8081A	
Endosulfan Sulfate	<0.085	0.085	0.0078	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:31	EPA 8081A	
Endrin	<0.085	0.085	0.0095	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:31	EPA 8081A	
Endrin Aldehyde	<0.085	0.085	0.033	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:31	EPA 8081A	qn
Endrin Ketone	<0.085	0.085	0.011	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:31	EPA 8081A	
gamma-BHC	<0.085	0.085	0.0085	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:31	EPA 8081A	
gamma-Chlordane	<0.085	0.085	0.0058	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:31	EPA 8081A	
Heptachlor	<0.085	0.085	0.018	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:31	EPA 8081A	
Heptachlor Epoxide	<0.085	0.085	0.015	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:31	EPA 8081A	
Methoxychlor	<0.085	0.085	0.0071	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:31	EPA 8081A	
Toxaphene	<1.7	1.7	0.33	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:31	EPA 8081A	
Surr: DBC	*78.2 %*	*Limits: 40-160%*			*B9I0286*	*9/15/09 9:49*	*9/17/09 20:57*	*EPA 8081A*	
Surr: TCMX	*77.9 %*	*Limits: 60-130%*			*B9I0286*	*9/15/09 9:49*	*9/17/09 20:31*	*EPA 8081A*	

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UMP018742

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904966
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC4-GP4 (1-2)

0904966-01 (Soil)

9/10/09 13:00

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.046	0.046	0.012	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:11	EPA 8270C	
Alachlor	<0.046	0.046	0.0081	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:11	EPA 8270C	
Atrazine	<0.046	0.046	0.012	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:11	EPA 8270C	
Chlorpyrifos	<0.046	0.046	0.0081	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:11	EPA 8270C	
Cyanazine	<0.046	0.046	0.0093	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:11	EPA 8270C	
Deisopropylatrazine	<0.046	0.046	0.0093	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:11	EPA 8270C	
Desethylatrazine	<0.046	0.046	0.013	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:11	EPA 8270C	
Dimethenamid	<0.046	0.046	0.0070	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:11	EPA 8270C	
EPTC	<0.046	0.046	0.0070	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:11	EPA 8270C	
Ethalfluralin	<0.046	0.046	0.016	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:11	EPA 8270C	
Fonofos	<0.046	0.046	0.0046	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:11	EPA 8270C	
Metolachlor	<0.046	0.046	0.0035	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:11	EPA 8270C	
Metribuzin	<0.046	0.046	0.010	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:11	EPA 8270C	
Pendimethalin	<0.046	0.046	0.019	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:11	EPA 8270C	
Phorate	<0.046	0.046	0.0070	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:11	EPA 8270C	
Prometon	<0.046	0.046	0.0070	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:11	EPA 8270C	
Propachlor	<0.046	0.046	0.010	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:11	EPA 8270C	
Propazine	<0.046	0.046	0.0081	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:11	EPA 8270C	
Simazine	<0.046	0.046	0.010	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:11	EPA 8270C	
Terbufos	<0.046	0.046	0.010	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:11	EPA 8270C	
Triallate	<0.046	0.046	0.0058	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:11	EPA 8270C	
Trifluralin	<0.046	0.046	0.016	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:11	EPA 8270C	
Surr: Atrazine-d5	*59.2 %*	*Limits: 50-125%*			*B9I0441*	*9/22/09 6:31*	*9/23/09 19:11*	*EPA 8270C*	
Surr: Diazinon-d10	*70.4 %*	*Limits: 35-120%*			*B9I0441*	*9/22/09 6:31*	*9/23/09 19:11*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904966
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC4-GP4 (1-2)

0904966-01 (Soil)

9/10/09 13:00

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.056	0.056	0.010	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 18:18	EPA 8270C	
2,4,5-T.P.	<0.056	0.056	0.0079	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 18:18	EPA 8270C	
2,4-D	<0.056	0.056	0.014	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 18:18	EPA 8270C	
2,4-D.B.	<0.056	0.056	0.012	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 18:18	EPA 8270C	
Bentazon	<0.056	0.056	0.010	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 18:18	EPA 8270C	
Dicamba	<0.056	0.056	0.0090	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 18:18	EPA 8270C	
Dinoseb	<0.056	0.056	0.0056	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 18:18	EPA 8270C	
M.C.P.A.	<0.056	0.056	0.016	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 18:18	EPA 8270C	
Pentachlorophenol	<0.056	0.056	0.0079	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 18:18	EPA 8270C	
Picloram	<0.056	0.056	0.012	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 18:18	EPA 8270C	qn
Triclopyr	<0.056	0.056	0.0068	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 18:18	EPA 8270C	
Surr: D.C.A.A.	*70.0 %*	*Limits: 50-125%*			*B9I0428*	*9/21/09 13:29*	*9/29/09 18:18*	*EPA 8270C*	

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UMP018744

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Dup-2 (Geoprobe)

0904966-02 (Soil)

9/10/09 12:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**85**	0.050	0.010	% Wt	B9I0264	9/14/09 11:53	9/16/09 13:24	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.087	0.087	0.0052	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:57	EPA 8081A	
4,4'-DDE	<0.087	0.087	0.0090	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:57	EPA 8081A	
4,4'-DDT	<0.087	0.087	0.0080	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:57	EPA 8081A	
Aldrin	<0.087	0.087	0.011	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:57	EPA 8081A	
alpha-BHC	<0.087	0.087	0.0080	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:57	EPA 8081A	
alpha-Chlordane	<0.087	0.087	0.0070	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:57	EPA 8081A	
beta-BHC	<0.087	0.087	0.0080	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:57	EPA 8081A	
delta-BHC	<0.087	0.087	0.0063	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:57	EPA 8081A	
Dieldrin	<0.087	0.087	0.0076	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:57	EPA 8081A	
Endosulfan I	<0.087	0.087	0.0097	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:57	EPA 8081A	
Endosulfan II	<0.087	0.087	0.0073	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:57	EPA 8081A	
Endosulfan Sulfate	<0.087	0.087	0.0080	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:57	EPA 8081A	
Endrin	<0.087	0.087	0.0097	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:57	EPA 8081A	
Endrin Aldehyde	<0.087	0.087	0.033	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:57	EPA 8081A	qn
Endrin Ketone	<0.087	0.087	0.011	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:57	EPA 8081A	
gamma-BHC	<0.087	0.087	0.0087	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:57	EPA 8081A	
gamma-Chlordane	<0.087	0.087	0.0059	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:57	EPA 8081A	
Heptachlor	<0.087	0.087	0.019	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:57	EPA 8081A	
Heptachlor Epoxide	<0.087	0.087	0.015	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:57	EPA 8081A	
Methoxychlor	<0.087	0.087	0.0073	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:57	EPA 8081A	
Toxaphene	<1.7	1.7	0.33	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 20:57	EPA 8081A	
Surr: DBC	*80.0 %*	*Limits: 40-160%*			*B9I0286*	*9/15/09 9:49*	*9/17/09 21:23*	*EPA 8081A*	
Surr: TCMX	*80.4 %*	*Limits: 60-130%*			*B9I0286*	*9/15/09 9:49*	*9/17/09 20:57*	*EPA 8081A*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904966
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC4-GP4

0904966-03 (Water)

9/10/09 15:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Total Kjeldahl Nitrogen	<0.50	0.50	0.17	mg/L	B9I0328	9/16/09 14:53	9/17/09 16:23	EPA 351.2	
Nitrate + Nitrite as N	**17**	0.30	0.10	mg/L	B9I0263	9/14/09 11:34	9/15/09 7:15	SM4500 NO3F	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC4-GP5

0904966-04 (Water)

9/10/09 17:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Total Kjeldahl Nitrogen	<0.50	0.50	0.17	mg/L	B9I0328	9/16/09 14:53	9/17/09 16:23	EPA 351.2	
Nitrate + Nitrite as N	**21**	0.30	0.10	mg/L	B9I0263	9/14/09 11:34	9/15/09 7:15	SM4500 NO3F	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Classical Chemistry Parameters - Quality Control

Batch B9I0263 - NO PREP

Method Blank (B9I0263-BLK1)

Prepared: 09/14/09 Analyzed: 09/15/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	<0.020	0.020	0.0069	mg/L	NA	NA	NA	NA	NA	NA	

Laboratory Control Sample (B9I0263-BS1)

Prepared: 09/14/09 Analyzed: 09/15/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	0.535	0.020	0.0069	mg/L	0.500	NA	107	80-120	NA	NA	

Laboratory Control Sample Duplicate (B9I0263-BSD1)

Prepared: 09/14/09 Analyzed: 09/15/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	0.528	0.020	0.0069	mg/L	0.500	NA	106	80-120	1.47	20	

Matrix Spike (B9I0263-MS1)

Source: 0905016-01 Prepared: 09/14/09 Analyzed: 09/15/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	0.457	0.020	0.0069	mg/L	0.500	ND	91.3	75-125	NA	NA	

Matrix Spike Duplicate (B9I0263-MSD1)

Source: 0905016-01 Prepared: 09/14/09 Analyzed: 09/15/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	0.443	0.020	0.0069	mg/L	0.500	ND	88.6	75-125	3.00	20	

Batch B9I0264 - Default Prep GenChem

Method Blank (B9I0264-BLK1)

Prepared: 09/14/09 Analyzed: 09/16/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	<0.050	0.050	0.010	% Wt	NA	NA	NA	NA	NA	NA	

Duplicate (B9I0264-DUP1)

Source: 0904966-01 Prepared: 09/14/09 Analyzed: 09/16/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	86.7	0.050	0.010	% Wt	NA	86.2	NA	NA	0.654	20	

Standard Reference Material (B9I0264-SRM1)

Prepared: 09/14/09 Analyzed: 09/16/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	90.2			% Wt	91.3	NA	98.8	90-110	NA	NA	

Batch B9I0328 - EPA 351.2

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904966
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Classical Chemistry Parameters - Quality Control

Batch B9I0328 - EPA 351.2

Method Blank (B9I0328-BLK1)

Prepared: 09/16/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	<0.50	0.50	0.17	mg/L	NA	NA	NA	NA	NA	NA	

Laboratory Control Sample (B9I0328-BS1)

Prepared: 09/16/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	2.60	0.50	0.17	mg/L	2.50	NA	104	90-110	NA	NA	

Laboratory Control Sample Duplicate (B9I0328-BSD1)

Prepared: 09/16/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	2.54	0.50	0.17	mg/L	2.50	NA	101	90-110	2.30	20	

Matrix Spike (B9I0328-MS1)

Source: 0904909-01 Prepared: 09/16/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	2.73	0.50	0.17	mg/L	2.50	ND	109	90-110	NA	NA	

Matrix Spike Duplicate (B9I0328-MSD1)

Source: 0904909-01 Prepared: 09/16/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	2.54	0.50	0.17	mg/L	2.50	ND	102	90-110	6.94	20	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904966
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0286 - EPA 3545

Method Blank (B9I0286-BLK1)

Prepared: 09/15/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	<0.070	0.070	0.0042	mg/kg	NA	NA	NA	NA	NA	NA	
4,4'-DDE	<0.070	0.070	0.0072	mg/kg	NA	NA	NA	NA	NA	NA	
4,4'-DDT	<0.070	0.070	0.0064	mg/kg	NA	NA	NA	NA	NA	NA	
Aldrin	<0.070	0.070	0.0089	mg/kg	NA	NA	NA	NA	NA	NA	
alpha-BHC	<0.070	0.070	0.0064	mg/kg	NA	NA	NA	NA	NA	NA	
alpha-Chlordane	<0.070	0.070	0.0056	mg/kg	NA	NA	NA	NA	NA	NA	
beta-BHC	<0.070	0.070	0.0064	mg/kg	NA	NA	NA	NA	NA	NA	
delta-BHC	<0.070	0.070	0.0050	mg/kg	NA	NA	NA	NA	NA	NA	
Dieldrin	<0.070	0.070	0.0061	mg/kg	NA	NA	NA	NA	NA	NA	
Endosulfan I	<0.070	0.070	0.0078	mg/kg	NA	NA	NA	NA	NA	NA	
Endosulfan II	<0.070	0.070	0.0058	mg/kg	NA	NA	NA	NA	NA	NA	
Endosulfan Sulfate	<0.070	0.070	0.0064	mg/kg	NA	NA	NA	NA	NA	NA	
Endrin	<0.070	0.070	0.0078	mg/kg	NA	NA	NA	NA	NA	NA	
Endrin Aldehyde	<0.070	0.070	0.027	mg/kg	NA	NA	NA	NA	NA	NA	
Endrin Ketone	<0.070	0.070	0.0086	mg/kg	NA	NA	NA	NA	NA	NA	
gamma-BHC	<0.070	0.070	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
gamma-Chlordane	<0.070	0.070	0.0047	mg/kg	NA	NA	NA	NA	NA	NA	
Heptachlor	<0.070	0.070	0.015	mg/kg	NA	NA	NA	NA	NA	NA	
Heptachlor Epoxide	<0.070	0.070	0.012	mg/kg	NA	NA	NA	NA	NA	NA	
Methoxychlor	<0.070	0.070	0.0058	mg/kg	NA	NA	NA	NA	NA	NA	
Toxaphene	<1.4	1.4	0.27	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: DBC	*0.173*			mg/kg	*0.232*	*NA*	*74.8*	*40-160*			
Surrogate: TCMX	*0.180*			mg/kg	*0.232*	*NA*	*77.8*	*60-130*			

Laboratory Control Sample (B9I0286-BS1)

Prepared: 09/15/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.184	0.071	0.0043	mg/kg	0.237	NA	77.7	70-130	NA	NA	
4,4'-DDE	0.194	0.071	0.0074	mg/kg	0.237	NA	82.0	70-130	NA	NA	
4,4'-DDT	0.197	0.071	0.0065	mg/kg	0.237	NA	83.2	70-130	NA	NA	
Aldrin	0.204	0.071	0.0091	mg/kg	0.237	NA	86.2	70-130	NA	NA	
alpha-BHC	0.206	0.071	0.0065	mg/kg	0.237	NA	87.3	70-130	NA	NA	
alpha-Chlordane	0.198	0.071	0.0057	mg/kg	0.237	NA	83.9	70-130	NA	NA	
beta-BHC	0.210	0.071	0.0065	mg/kg	0.237	NA	88.8	70-130	NA	NA	
delta-BHC	0.202	0.071	0.0051	mg/kg	0.237	NA	85.2	70-130	NA	NA	
Dieldrin	0.197	0.071	0.0062	mg/kg	0.237	NA	83.5	70-130	NA	NA	
Endosulfan I	0.195	0.071	0.0079	mg/kg	0.237	NA	82.6	70-130	NA	NA	
Endosulfan II	0.183	0.071	0.0060	mg/kg	0.237	NA	77.3	70-130	NA	NA	
Endosulfan Sulfate	0.186	0.071	0.0065	mg/kg	0.237	NA	78.8	70-130	NA	NA	
Endrin	0.197	0.071	0.0079	mg/kg	0.237	NA	83.4	70-130	NA	NA	
Endrin Aldehyde	0.191	0.071	0.027	mg/kg	0.237	NA	80.6	70-130	NA	NA	
Endrin Ketone	0.203	0.071	0.0088	mg/kg	0.237	NA	85.7	70-130	NA	NA	
gamma-BHC	0.210	0.071	0.0071	mg/kg	0.237	NA	88.7	70-130	NA	NA	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0286 - EPA 3545

Laboratory Control Sample (B9I0286-BS1)

Prepared: 09/15/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
gamma-Chlordane	0.201	0.071	0.0048	mg/kg	0.237	NA	85.1	70-130	NA	NA	
Heptachlor	0.192	0.071	0.015	mg/kg	0.237	NA	81.0	70-130	NA	NA	
Heptachlor Epoxide	0.201	0.071	0.012	mg/kg	0.237	NA	84.9	70-130	NA	NA	
Methoxychlor	0.200	0.071	0.0060	mg/kg	0.237	NA	84.4	70-130	NA	NA	
Surrogate: DBC	*0.200*			mg/kg	*0.237*	*NA*	*84.7*	*40-160*			
Surrogate: TCMX	*0.191*			mg/kg	*0.237*	*NA*	*81.0*	*60-130*			

Laboratory Control Sample Duplicate (B9I0286-BSD1)

Prepared: 09/15/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.199	0.075	0.0045	mg/kg	0.249	NA	79.7	70-130	7.69	25	
4,4'-DDE	0.203	0.075	0.0078	mg/kg	0.249	NA	81.4	70-130	4.55	25	
4,4'-DDT	0.214	0.075	0.0069	mg/kg	0.249	NA	85.7	70-130	8.21	25	
Aldrin	0.214	0.075	0.0096	mg/kg	0.249	NA	85.8	70-130	4.77	25	
alpha-BHC	0.221	0.075	0.0069	mg/kg	0.249	NA	88.6	70-130	6.71	25	
alpha-Chlordane	0.211	0.075	0.0060	mg/kg	0.249	NA	84.6	70-130	6.04	25	
beta-BHC	0.227	0.075	0.0069	mg/kg	0.249	NA	91.1	70-130	7.70	25	
delta-BHC	0.218	0.075	0.0054	mg/kg	0.249	NA	87.3	70-130	7.65	25	
Dieldrin	0.212	0.075	0.0066	mg/kg	0.249	NA	85.1	70-130	7.12	25	
Endosulfan I	0.209	0.075	0.0084	mg/kg	0.249	NA	83.8	70-130	6.74	25	
Endosulfan II	0.197	0.075	0.0063	mg/kg	0.249	NA	78.9	70-130	7.22	25	
Endosulfan Sulfate	0.202	0.075	0.0069	mg/kg	0.249	NA	80.9	70-130	7.86	25	
Endrin	0.215	0.075	0.0084	mg/kg	0.249	NA	86.1	70-130	8.44	25	
Endrin Aldehyde	0.203	0.075	0.029	mg/kg	0.249	NA	81.3	70-130	6.12	25	
Endrin Ketone	0.237	0.075	0.0093	mg/kg	0.249	NA	95.1	70-130	15.6	25	
gamma-BHC	0.230	0.075	0.0075	mg/kg	0.249	NA	92.3	70-130	9.16	25	
gamma-Chlordane	0.216	0.075	0.0051	mg/kg	0.249	NA	86.6	70-130	6.96	25	
Heptachlor	0.200	0.075	0.016	mg/kg	0.249	NA	80.1	70-130	4.16	25	
Heptachlor Epoxide	0.214	0.075	0.013	mg/kg	0.249	NA	85.8	70-130	6.32	25	
Methoxychlor	0.216	0.075	0.0063	mg/kg	0.249	NA	86.8	70-130	8.01	25	
Surrogate: DBC	*0.214*			mg/kg	*0.249*	*NA*	*85.8*	*40-160*			
Surrogate: TCMX	*0.200*			mg/kg	*0.249*	*NA*	*80.4*	*60-130*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904966
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0286 - EPA 3545

Matrix Spike (B9I0286-MS1)

Source: 0904966-01 Prepared: 09/15/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.218	0.085	0.0051	mg/kg dry	0.283	ND	77.1	50-130	NA	NA	
4,4'-DDE	0.229	0.085	0.0088	mg/kg dry	0.283	ND	80.9	50-130	NA	NA	
4,4'-DDT	0.236	0.085	0.0078	mg/kg dry	0.283	ND	83.3	50-130	NA	NA	
Aldrin	0.242	0.085	0.011	mg/kg dry	0.283	ND	85.4	50-130	NA	NA	
alpha-BHC	0.246	0.085	0.0078	mg/kg dry	0.283	ND	86.8	50-130	NA	NA	
alpha-Chlordane	0.236	0.085	0.0068	mg/kg dry	0.283	ND	83.2	50-130	NA	NA	
beta-BHC	0.250	0.085	0.0078	mg/kg dry	0.283	ND	88.3	50-130	NA	NA	
delta-BHC	0.235	0.085	0.0061	mg/kg dry	0.283	ND	82.9	50-130	NA	NA	
Dieldrin	0.235	0.085	0.0075	mg/kg dry	0.283	ND	82.8	50-130	NA	NA	
Endosulfan I	0.232	0.085	0.0095	mg/kg dry	0.283	ND	81.9	50-130	NA	NA	
Endosulfan II	0.215	0.085	0.0071	mg/kg dry	0.283	ND	75.7	50-130	NA	NA	
Endosulfan Sulfate	0.221	0.085	0.0078	mg/kg dry	0.283	ND	78.0	50-130	NA	NA	
Endrin	0.236	0.085	0.0095	mg/kg dry	0.283	ND	83.3	50-130	NA	NA	
Endrin Aldehyde	0.163	0.085	0.033	mg/kg dry	0.283	ND	57.5	50-130	NA	NA	
Endrin Ketone	0.244	0.085	0.011	mg/kg dry	0.283	ND	86.3	50-130	NA	NA	
gamma-BHC	0.253	0.085	0.0085	mg/kg dry	0.283	ND	89.2	50-130	NA	NA	
gamma-Chlordane	0.240	0.085	0.0058	mg/kg dry	0.283	ND	84.9	50-130	NA	NA	
Heptachlor	0.227	0.085	0.018	mg/kg dry	0.283	ND	80.2	50-130	NA	NA	
Heptachlor Epoxide	0.238	0.085	0.015	mg/kg dry	0.283	ND	84.0	50-130	NA	NA	
Methoxychlor	0.241	0.085	0.0071	mg/kg dry	0.283	ND	84.9	50-130	NA	NA	
Surrogate: DBC	*0.238*			mg/kg dry	*0.283*	*NA*	*83.9*	*40-160*			
Surrogate: TCMX	*0.230*			mg/kg dry	*0.283*	*NA*	*81.3*	*60-130*			

Matrix Spike (B9I0286-MS2)

Source: 0904980-06 Prepared: 09/15/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.236	0.086	0.0052	mg/kg dry	0.288	ND	82.1	50-130	NA	NA	
4,4'-DDE	0.237	0.086	0.0090	mg/kg dry	0.288	ND	82.6	50-130	NA	NA	
4,4'-DDT	0.249	0.086	0.0079	mg/kg dry	0.288	ND	86.4	50-130	NA	NA	
Aldrin	0.250	0.086	0.011	mg/kg dry	0.288	ND	86.8	50-130	NA	NA	
alpha-BHC	0.255	0.086	0.0079	mg/kg dry	0.288	ND	88.8	50-130	NA	NA	
alpha-Chlordane	0.240	0.086	0.0069	mg/kg dry	0.288	ND	83.3	50-130	NA	NA	
beta-BHC	0.262	0.086	0.0079	mg/kg dry	0.288	ND	91.3	50-130	NA	NA	
delta-BHC	0.229	0.086	0.0062	mg/kg dry	0.288	ND	79.6	50-130	NA	NA	
Dieldrin	0.245	0.086	0.0076	mg/kg dry	0.288	ND	85.1	50-130	NA	NA	
Endosulfan I	0.242	0.086	0.0097	mg/kg dry	0.288	ND	84.2	50-130	NA	NA	
Endosulfan II	0.228	0.086	0.0072	mg/kg dry	0.288	ND	79.2	50-130	NA	NA	
Endosulfan Sulfate	0.233	0.086	0.0079	mg/kg dry	0.288	ND	81.1	50-130	NA	NA	
Endrin	0.252	0.086	0.0097	mg/kg dry	0.288	ND	87.7	50-130	NA	NA	
Endrin Aldehyde	<0.086	0.086	0.033	mg/kg dry	0.288	ND	17.7	50-130	NA	NA	
Endrin Ketone	0.260	0.086	0.011	mg/kg dry	0.288	ND	90.6	50-130	NA	NA	
gamma-BHC	0.263	0.086	0.0086	mg/kg dry	0.288	ND	91.5	50-130	NA	NA	
gamma-Chlordane	0.250	0.086	0.0059	mg/kg dry	0.288	ND	86.9	50-130	NA	NA	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904966
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0286 - EPA 3545

Matrix Spike (B9I0286-MS2)

Source: 0904980-06 Prepared: 09/15/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Heptachlor	0.243	0.086	0.019	mg/kg dry	0.288	ND	84.4	50-130	NA	NA	
Heptachlor Epoxide	0.245	0.086	0.015	mg/kg dry	0.288	ND	85.3	50-130	NA	NA	
Methoxychlor	0.254	0.086	0.0072	mg/kg dry	0.288	ND	88.4	50-130	NA	NA	
Surrogate: DBC	*0.245*			mg/kg dry	*0.288*	*NA*	*85.2*	*40-160*			
Surrogate: TCMX	*0.233*			mg/kg dry	*0.288*	*NA*	*80.9*	*60-130*			

Matrix Spike Duplicate (B9I0286-MSD1)

Source: 0904966-01 Prepared: 09/15/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.219	0.085	0.0051	mg/kg dry	0.284	ND	77.2	50-130	0.428	25	
4,4'-DDE	0.226	0.085	0.0089	mg/kg dry	0.284	ND	79.4	50-130	1.67	25	
4,4'-DDT	0.238	0.085	0.0078	mg/kg dry	0.284	ND	83.8	50-130	0.929	25	
Aldrin	0.238	0.085	0.011	mg/kg dry	0.284	ND	83.6	50-130	1.84	25	
alpha-BHC	0.240	0.085	0.0078	mg/kg dry	0.284	ND	84.4	50-130	2.58	25	
alpha-Chlordane	0.230	0.085	0.0068	mg/kg dry	0.284	ND	80.9	50-130	2.49	25	
beta-BHC	0.249	0.085	0.0078	mg/kg dry	0.284	ND	87.6	50-130	0.453	25	
delta-BHC	0.232	0.085	0.0061	mg/kg dry	0.284	ND	81.7	50-130	1.21	25	
Dieldrin	0.233	0.085	0.0075	mg/kg dry	0.284	ND	81.9	50-130	0.907	25	
Endosulfan I	0.230	0.085	0.0095	mg/kg dry	0.284	ND	81.0	50-130	0.856	25	
Endosulfan II	0.215	0.085	0.0072	mg/kg dry	0.284	ND	75.6	50-130	0.176	25	
Endosulfan Sulfate	0.221	0.085	0.0078	mg/kg dry	0.284	ND	77.8	50-130	0.000222	25	
Endrin	0.239	0.085	0.0095	mg/kg dry	0.284	ND	84.1	50-130	1.24	25	
Endrin Aldehyde	0.139	0.085	0.033	mg/kg dry	0.284	ND	48.8	50-130	16.2	25	
Endrin Ketone	0.254	0.085	0.011	mg/kg dry	0.284	ND	89.5	50-130	4.04	25	
gamma-BHC	0.250	0.085	0.0085	mg/kg dry	0.284	ND	87.9	50-130	1.15	25	
gamma-Chlordane	0.239	0.085	0.0058	mg/kg dry	0.284	ND	84.3	50-130	0.450	25	
Heptachlor	0.224	0.085	0.018	mg/kg dry	0.284	ND	78.9	50-130	1.32	25	
Heptachlor Epoxide	0.237	0.085	0.015	mg/kg dry	0.284	ND	83.3	50-130	0.516	25	
Methoxychlor	0.242	0.085	0.0072	mg/kg dry	0.284	ND	85.1	50-130	0.507	25	
Surrogate: DBC	*0.233*			mg/kg dry	*0.284*	*NA*	*82.2*	*40-160*			
Surrogate: TCMX	*0.214*			mg/kg dry	*0.284*	*NA*	*75.2*	*60-130*			

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0286 - EPA 3545

Matrix Spike Duplicate (B9I0286-MSD2) **Source: 0904980-06** Prepared: 09/15/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.246	0.088	0.0053	mg/kg dry	0.294	ND	83.9	50-130	4.24	25	
4,4'-DDE	0.248	0.088	0.0092	mg/kg dry	0.294	ND	84.4	50-130	4.28	25	
4,4'-DDT	0.269	0.088	0.0081	mg/kg dry	0.294	ND	91.5	50-130	7.83	25	
Aldrin	0.259	0.088	0.011	mg/kg dry	0.294	ND	88.2	50-130	3.73	25	
alpha-BHC	0.268	0.088	0.0081	mg/kg dry	0.294	ND	91.1	50-130	4.71	25	
alpha-Chlordane	0.254	0.088	0.0071	mg/kg dry	0.294	ND	86.4	50-130	5.72	25	
beta-BHC	0.280	0.088	0.0081	mg/kg dry	0.294	ND	95.2	50-130	6.34	25	
delta-BHC	0.239	0.088	0.0063	mg/kg dry	0.294	ND	81.3	50-130	4.16	25	
Dieldrin	0.258	0.088	0.0078	mg/kg dry	0.294	ND	87.7	50-130	5.15	25	
Endosulfan I	0.254	0.088	0.0099	mg/kg dry	0.294	ND	86.5	50-130	4.79	25	
Endosulfan II	0.236	0.088	0.0074	mg/kg dry	0.294	ND	80.4	50-130	3.55	25	
Endosulfan Sulfate	0.248	0.088	0.0081	mg/kg dry	0.294	ND	84.5	50-130	6.23	25	
Endrin	0.268	0.088	0.0099	mg/kg dry	0.294	ND	91.2	50-130	6.08	25	
Endrin Aldehyde	<0.088	0.088	0.034	mg/kg dry	0.294	ND	17.1	50-130	0.996	25	
Endrin Ketone	0.283	0.088	0.011	mg/kg dry	0.294	ND	96.2	50-130	8.12	25	
gamma-BHC	0.278	0.088	0.0088	mg/kg dry	0.294	ND	94.6	50-130	5.50	25	
gamma-Chlordane	0.261	0.088	0.0060	mg/kg dry	0.294	ND	88.9	50-130	4.36	25	
Heptachlor	0.254	0.088	0.019	mg/kg dry	0.294	ND	86.4	50-130	4.53	25	
Heptachlor Epoxide	0.257	0.088	0.015	mg/kg dry	0.294	ND	87.4	50-130	4.56	25	
Methoxychlor	0.280	0.088	0.0074	mg/kg dry	0.294	ND	95.5	50-130	9.87	25	
Surrogate: DBC	*0.261*			mg/kg dry	*0.294*	*NA*	*88.8*	*40-160*			
Surrogate: TCMX	*0.243*			mg/kg dry	*0.294*	*NA*	*82.6*	*60-130*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904966
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0441 - EPA 3545

Method Blank (B9I0441-BLK1)

Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	<0.040	0.040	0.010	mg/kg	NA	NA	NA	NA	NA	NA	
Alachlor	<0.040	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Atrazine	<0.040	0.040	0.010	mg/kg	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	<0.040	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Cyanazine	<0.040	0.040	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	<0.040	0.040	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Desethylatrazine	<0.040	0.040	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Dimethenamid	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
EPTC	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Ethalfluralin	<0.040	0.040	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Fonofos	<0.040	0.040	0.0040	mg/kg	NA	NA	NA	NA	NA	NA	
Metolachlor	<0.040	0.040	0.0030	mg/kg	NA	NA	NA	NA	NA	NA	
Metribuzin	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Pendimethalin	<0.040	0.040	0.016	mg/kg	NA	NA	NA	NA	NA	NA	
Phorate	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Prometon	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Propachlor	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Propazine	<0.040	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Simazine	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Terbufos	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Triallate	<0.040	0.040	0.0050	mg/kg	NA	NA	NA	NA	NA	NA	
Trifluralin	<0.040	0.040	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: Atrazine-d5	*0.357*			mg/kg	*0.330*	*NA*	*108*	*50-125*			
Surrogate: Diazinon-d10	*0.359*			mg/kg	*0.330*	*NA*	*109*	*35-120*			

Laboratory Control Sample (B9I0441-BS1)

Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.334	0.039	0.0098	mg/kg	0.326	NA	102	70-120	NA	NA	
Alachlor	0.313	0.039	0.0069	mg/kg	0.326	NA	96.0	70-120	NA	NA	
Atrazine	0.291	0.039	0.0098	mg/kg	0.326	NA	89.2	70-120	NA	NA	
Chlorpyrifos	0.300	0.039	0.0069	mg/kg	0.326	NA	92.0	70-120	NA	NA	
Cyanazine	0.279	0.039	0.0078	mg/kg	0.326	NA	85.6	70-120	NA	NA	
Deisopropylatrazine	0.249	0.039	0.0078	mg/kg	0.326	NA	76.4	65-115	NA	NA	
Desethylatrazine	0.299	0.039	0.011	mg/kg	0.326	NA	91.7	70-120	NA	NA	
Dimethenamid	0.320	0.039	0.0059	mg/kg	0.326	NA	98.1	70-120	NA	NA	
EPTC	0.276	0.039	0.0059	mg/kg	0.326	NA	84.7	60-105	NA	NA	
Ethalfluralin	0.303	0.039	0.014	mg/kg	0.326	NA	93.0	70-120	NA	NA	
Fonofos	0.317	0.039	0.0039	mg/kg	0.326	NA	97.2	70-115	NA	NA	
Metolachlor	0.318	0.039	0.0029	mg/kg	0.326	NA	97.4	70-120	NA	NA	
Metribuzin	0.316	0.039	0.0088	mg/kg	0.326	NA	97.0	70-120	NA	NA	
Pendimethalin	0.313	0.039	0.016	mg/kg	0.326	NA	95.8	70-120	NA	NA	
Phorate	0.259	0.039	0.0059	mg/kg	0.326	NA	79.5	70-115	NA	NA	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0441 - EPA 3545

Laboratory Control Sample (B9I0441-BS1)

Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	0.316	0.039	0.0059	mg/kg	0.326	NA	96.9	70-120	NA	NA	
Propachlor	0.304	0.039	0.0088	mg/kg	0.326	NA	93.3	70-115	NA	NA	
Propazine	0.307	0.039	0.0069	mg/kg	0.326	NA	94.0	70-120	NA	NA	
Simazine	0.236	0.039	0.0088	mg/kg	0.326	NA	72.2	60-115	NA	NA	
Terbufos	0.236	0.039	0.0088	mg/kg	0.326	NA	72.3	70-115	NA	NA	
Triallate	0.303	0.039	0.0049	mg/kg	0.326	NA	93.0	70-115	NA	NA	
Trifluralin	0.267	0.039	0.014	mg/kg	0.326	NA	81.7	70-115	NA	NA	
Surrogate: Atrazine-d5	*0.274*			mg/kg	*0.326*	*NA*	*84.0*	*50-125*			
Surrogate: Diazinon-d10	*0.285*			mg/kg	*0.326*	*NA*	*87.2*	*35-120*			

Laboratory Control Sample Duplicate (B9I0441-BSD1)

Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.339	0.039	0.0098	mg/kg	0.326	NA	104	70-120	1.42	20	
Alachlor	0.337	0.039	0.0068	mg/kg	0.326	NA	104	70-120	7.39	20	
Atrazine	0.307	0.039	0.0098	mg/kg	0.326	NA	94.1	70-120	5.22	20	
Chlorpyrifos	0.312	0.039	0.0068	mg/kg	0.326	NA	95.9	70-120	4.02	20	
Cyanazine	0.338	0.039	0.0078	mg/kg	0.326	NA	104	70-120	19.1	20	
Deisopropylatrazine	0.275	0.039	0.0078	mg/kg	0.326	NA	84.3	65-115	9.70	20	
Desethylatrazine	0.328	0.039	0.011	mg/kg	0.326	NA	101	70-120	9.32	20	
Dimethenamid	0.336	0.039	0.0059	mg/kg	0.326	NA	103	70-120	4.74	20	
EPTC	0.282	0.039	0.0059	mg/kg	0.326	NA	86.5	60-105	1.97	20	
Ethalfluralin	0.301	0.039	0.014	mg/kg	0.326	NA	92.5	70-120	0.670	20	
Fonofos	0.338	0.039	0.0039	mg/kg	0.326	NA	104	70-115	6.44	20	
Metolachlor	0.335	0.039	0.0029	mg/kg	0.326	NA	103	70-120	5.36	20	
Metribuzin	0.315	0.039	0.0088	mg/kg	0.326	NA	96.8	70-120	0.337	20	
Pendimethalin	0.331	0.039	0.016	mg/kg	0.326	NA	102	70-120	5.65	20	
Phorate	0.300	0.039	0.0059	mg/kg	0.326	NA	92.1	70-115	14.6	20	
Prometon	0.332	0.039	0.0059	mg/kg	0.326	NA	102	70-120	5.00	20	
Propachlor	0.326	0.039	0.0088	mg/kg	0.326	NA	100	70-115	6.80	20	
Propazine	0.323	0.039	0.0068	mg/kg	0.326	NA	99.2	70-120	5.25	20	
Simazine	0.239	0.039	0.0088	mg/kg	0.326	NA	73.5	60-115	1.65	20	
Terbufos	0.277	0.039	0.0088	mg/kg	0.326	NA	85.1	70-115	16.1	20	
Triallate	0.318	0.039	0.0049	mg/kg	0.326	NA	97.6	70-115	4.70	20	
Trifluralin	0.297	0.039	0.014	mg/kg	0.326	NA	91.1	70-115	10.7	20	
Surrogate: Atrazine-d5	*0.303*			mg/kg	*0.326*	*NA*	*93.0*	*50-125*			
Surrogate: Diazinon-d10	*0.305*			mg/kg	*0.326*	*NA*	*93.6*	*35-120*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904966
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0441 - EPA 3545

Matrix Spike (B9I0441-MS1)

Source: 0904966-01 Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.362	0.046	0.012	mg/kg dry	0.387	ND	93.5	50-120	NA	NA	
Alachlor	0.368	0.046	0.0081	mg/kg dry	0.387	ND	95.3	55-120	NA	NA	
Atrazine	0.368	0.046	0.012	mg/kg dry	0.387	ND	95.1	60-120	NA	NA	
Chlorpyrifos	0.293	0.046	0.0081	mg/kg dry	0.387	ND	75.8	40-125	NA	NA	
Cyanazine	0.365	0.046	0.0093	mg/kg dry	0.387	ND	94.4	55-125	NA	NA	
Deisopropylatrazine	0.326	0.046	0.0093	mg/kg dry	0.387	ND	84.3	55-120	NA	NA	
Desethylatrazine	0.389	0.046	0.013	mg/kg dry	0.387	ND	101	60-125	NA	NA	
Dimethenamid	0.380	0.046	0.0070	mg/kg dry	0.387	ND	98.3	55-120	NA	NA	
EPTC	0.319	0.046	0.0070	mg/kg dry	0.387	ND	82.4	40-105	NA	NA	
Ethalfluralin	0.308	0.046	0.016	mg/kg dry	0.387	ND	79.7	40-120	NA	NA	
Fonofos	0.344	0.046	0.0046	mg/kg dry	0.387	ND	89.0	45-115	NA	NA	
Metolachlor	0.366	0.046	0.0035	mg/kg dry	0.387	ND	94.6	50-125	NA	NA	
Metribuzin	0.385	0.046	0.010	mg/kg dry	0.387	ND	99.6	55-125	NA	NA	
Pendimethalin	0.312	0.046	0.019	mg/kg dry	0.387	ND	80.7	40-120	NA	NA	
Phorate	0.341	0.046	0.0070	mg/kg dry	0.387	ND	88.2	40-115	NA	NA	
Prometon	0.387	0.046	0.0070	mg/kg dry	0.387	ND	100	60-125	NA	NA	
Propachlor	0.381	0.046	0.010	mg/kg dry	0.387	ND	98.5	60-115	NA	NA	
Propazine	0.374	0.046	0.0081	mg/kg dry	0.387	ND	96.7	55-120	NA	NA	
Simazine	0.280	0.046	0.010	mg/kg dry	0.387	ND	72.3	50-120	NA	NA	
Terbufos	0.297	0.046	0.010	mg/kg dry	0.387	ND	76.7	40-120	NA	NA	
Triallate	0.305	0.046	0.0058	mg/kg dry	0.387	ND	78.9	40-115	NA	NA	
Trifluralin	0.272	0.046	0.016	mg/kg dry	0.387	ND	70.3	40-115	NA	NA	
Surrogate: Atrazine-d5	*0.345*			mg/kg dry	*0.387*	*NA*	*89.2*	*50-125*			
Surrogate: Diazinon-d10	*0.356*			mg/kg dry	*0.387*	*NA*	*92.0*	*35-120*			

Matrix Spike (B9I0441-MS2)

Source: 0904980-06 Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.325	0.048	0.012	mg/kg dry	0.396	ND	82.2	50-120	NA	NA	
Alachlor	0.329	0.048	0.0084	mg/kg dry	0.396	ND	83.0	55-120	NA	NA	
Atrazine	0.350	0.048	0.012	mg/kg dry	0.396	ND	88.5	60-120	NA	NA	
Chlorpyrifos	0.235	0.048	0.0084	mg/kg dry	0.396	ND	59.3	40-125	NA	NA	
Cyanazine	0.334	0.048	0.0096	mg/kg dry	0.396	ND	84.5	55-125	NA	NA	
Deisopropylatrazine	0.313	0.048	0.0096	mg/kg dry	0.396	ND	79.1	55-120	NA	NA	
Desethylatrazine	0.363	0.048	0.013	mg/kg dry	0.396	ND	91.6	60-125	NA	NA	
Dimethenamid	0.341	0.048	0.0072	mg/kg dry	0.396	ND	86.2	55-120	NA	NA	
EPTC	0.302	0.048	0.0072	mg/kg dry	0.396	ND	76.2	40-105	NA	NA	
Ethalfluralin	0.225	0.048	0.017	mg/kg dry	0.396	ND	56.8	40-120	NA	NA	
Fonofos	0.305	0.048	0.0048	mg/kg dry	0.396	ND	77.0	45-115	NA	NA	
Metolachlor	0.321	0.048	0.0036	mg/kg dry	0.396	ND	81.2	50-125	NA	NA	
Metribuzin	0.333	0.048	0.011	mg/kg dry	0.396	ND	84.1	55-125	NA	NA	
Pendimethalin	0.244	0.048	0.019	mg/kg dry	0.396	ND	61.6	40-120	NA	NA	
Phorate	0.276	0.048	0.0072	mg/kg dry	0.396	ND	69.8	40-115	NA	NA	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0441 - EPA 3545

Matrix Spike (B9I0441-MS2)

Source: 0904980-06 Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	0.345	0.048	0.0072	mg/kg dry	0.396	ND	87.2	60-125	NA	NA	
Propachlor	0.353	0.048	0.011	mg/kg dry	0.396	ND	89.1	60-115	NA	NA	
Propazine	0.340	0.048	0.0084	mg/kg dry	0.396	ND	86.0	55-120	NA	NA	
Simazine	0.274	0.048	0.011	mg/kg dry	0.396	ND	69.3	50-120	NA	NA	
Terbufos	0.231	0.048	0.011	mg/kg dry	0.396	ND	58.4	40-120	NA	NA	
Triallate	0.248	0.048	0.0060	mg/kg dry	0.396	ND	62.7	40-115	NA	NA	
Trifluralin	0.209	0.048	0.017	mg/kg dry	0.396	ND	52.8	40-115	NA	NA	
Surrogate: Atrazine-d5	*0.332*			mg/kg dry	*0.396*	*NA*	*83.8*	*50-125*			
Surrogate: Diazinon-d10	*0.289*			mg/kg dry	*0.396*	*NA*	*73.1*	*35-120*			

Matrix Spike Duplicate (B9I0441-MSD1)

Source: 0904966-01 Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.324	0.046	0.012	mg/kg dry	0.385	ND	84.3	50-120	10.8	25	
Alachlor	0.334	0.046	0.0081	mg/kg dry	0.385	ND	86.7	55-120	9.91	25	
Atrazine	0.344	0.046	0.012	mg/kg dry	0.385	ND	89.4	60-120	6.64	25	
Chlorpyrifos	0.259	0.046	0.0081	mg/kg dry	0.385	ND	67.4	40-125	12.2	25	
Cyanazine	0.330	0.046	0.0093	mg/kg dry	0.385	ND	85.8	55-125	10.0	25	
Deisopropylatrazine	0.318	0.046	0.0093	mg/kg dry	0.385	ND	82.6	55-120	2.50	25	
Desethylatrazine	0.363	0.046	0.013	mg/kg dry	0.385	ND	94.4	60-125	6.82	25	
Dimethenamid	0.345	0.046	0.0070	mg/kg dry	0.385	ND	89.7	55-120	9.61	25	
EPTC	0.280	0.046	0.0070	mg/kg dry	0.385	ND	72.8	40-105	12.8	25	
Ethalfluralin	0.272	0.046	0.016	mg/kg dry	0.385	ND	70.6	40-120	12.6	25	
Fonofos	0.309	0.046	0.0046	mg/kg dry	0.385	ND	80.4	45-115	10.6	25	
Metolachlor	0.317	0.046	0.0035	mg/kg dry	0.385	ND	82.3	50-125	14.4	25	
Metribuzin	0.360	0.046	0.010	mg/kg dry	0.385	ND	93.6	55-125	6.68	25	
Pendimethalin	0.269	0.046	0.019	mg/kg dry	0.385	ND	69.9	40-120	14.8	25	
Phorate	0.295	0.046	0.0070	mg/kg dry	0.385	ND	76.6	40-115	14.5	25	
Prometon	0.350	0.046	0.0070	mg/kg dry	0.385	ND	90.9	60-125	10.2	25	
Propachlor	0.358	0.046	0.010	mg/kg dry	0.385	ND	92.9	60-115	6.32	25	
Propazine	0.337	0.046	0.0081	mg/kg dry	0.385	ND	87.5	55-120	10.5	25	
Simazine	0.254	0.046	0.010	mg/kg dry	0.385	ND	66.1	50-120	9.42	25	
Terbufos	0.248	0.046	0.010	mg/kg dry	0.385	ND	64.4	40-120	17.9	25	
Triallate	0.271	0.046	0.0058	mg/kg dry	0.385	ND	70.3	40-115	12.0	25	
Trifluralin	0.238	0.046	0.016	mg/kg dry	0.385	ND	61.8	40-115	13.3	25	
Surrogate: Atrazine-d5	*0.321*			mg/kg dry	*0.385*	*NA*	*83.5*	*50-125*			
Surrogate: Diazinon-d10	*0.293*			mg/kg dry	*0.385*	*NA*	*76.1*	*35-120*			

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Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0441 - EPA 3545

Matrix Spike Duplicate (B9I0441-MSD2) **Source: 0904980-06** Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.321	0.047	0.012	mg/kg dry	0.390	ND	82.3	50-120	1.38	25	
Alachlor	0.313	0.047	0.0082	mg/kg dry	0.390	ND	80.3	55-120	4.81	25	
Atrazine	0.343	0.047	0.012	mg/kg dry	0.390	ND	87.9	60-120	2.18	25	
Chlorpyrifos	0.230	0.047	0.0082	mg/kg dry	0.390	ND	58.9	40-125	2.18	25	
Cyanazine	0.335	0.047	0.0094	mg/kg dry	0.390	ND	85.8	55-125	0.0279	25	
Deisopropylatrazine	0.312	0.047	0.0094	mg/kg dry	0.390	ND	80.1	55-120	0.243	25	
Desethylatrazine	0.372	0.047	0.013	mg/kg dry	0.390	ND	95.4	60-125	2.57	25	
Dimethenamid	0.335	0.047	0.0070	mg/kg dry	0.390	ND	85.9	55-120	1.85	25	
EPTC	0.299	0.047	0.0070	mg/kg dry	0.390	ND	76.6	40-105	0.975	25	
Ethalfluralin	0.217	0.047	0.016	mg/kg dry	0.390	ND	55.7	40-120	3.45	25	
Fonofos	0.300	0.047	0.0047	mg/kg dry	0.390	ND	77.0	45-115	1.50	25	
Metolachlor	0.314	0.047	0.0035	mg/kg dry	0.390	ND	80.6	50-125	2.24	25	
Metribuzin	0.338	0.047	0.011	mg/kg dry	0.390	ND	86.8	55-125	1.66	25	
Pendimethalin	0.228	0.047	0.019	mg/kg dry	0.390	ND	58.5	40-120	6.66	25	
Phorate	0.277	0.047	0.0070	mg/kg dry	0.390	ND	71.1	40-115	0.346	25	
Prometon	0.356	0.047	0.0070	mg/kg dry	0.390	ND	91.2	60-125	2.99	25	
Propachlor	0.369	0.047	0.011	mg/kg dry	0.390	ND	94.7	60-115	4.60	25	
Propazine	0.342	0.047	0.0082	mg/kg dry	0.390	ND	87.7	55-120	0.459	25	
Simazine	0.251	0.047	0.011	mg/kg dry	0.390	ND	64.5	50-120	8.67	25	
Terbufos	0.227	0.047	0.011	mg/kg dry	0.390	ND	58.2	40-120	1.84	25	
Triallate	0.235	0.047	0.0058	mg/kg dry	0.390	ND	60.2	40-115	5.57	25	
Trifluralin	0.212	0.047	0.016	mg/kg dry	0.390	ND	54.4	40-115	1.49	25	
Surrogate: Atrazine-d5	*0.328*			mg/kg dry	*0.390*	*NA*	*84.1*	*50-125*			
Surrogate: Diazinon-d10	*0.270*			mg/kg dry	*0.390*	*NA*	*69.3*	*35-120*			

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BRAUN INTERTEC

11001 Hampshire Ave. S.
Minneapolis, MN 55438
952.995.2000 Phone
952.995.2020 Fax

Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904966
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0428 - EPA 3545

Method Blank (B9I0428-BLK1)

Prepared: 09/21/09 Analyzed: 09/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	<0.050	0.050	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	<0.050	0.050	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D	<0.050	0.050	0.012	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D.B.	<0.050	0.050	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Bentazon	<0.050	0.050	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Dicamba	<0.050	0.050	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Dinoseb	<0.050	0.050	0.0050	mg/kg	NA	NA	NA	NA	NA	NA	
M.C.P.A.	<0.050	0.050	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	<0.050	0.050	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Picloram	<0.050	0.050	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Triclopyr	<0.050	0.050	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	*0.131*			mg/kg	*0.167*	*NA*	*78.8*	*50-125*			

Laboratory Control Sample (B9I0428-BS1)

Prepared: 09/21/09 Analyzed: 09/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.121	0.050	0.0090	mg/kg	0.167	NA	72.6	60-125	NA	NA	
2,4,5-T.P.	0.124	0.050	0.0070	mg/kg	0.167	NA	74.2	65-125	NA	NA	
2,4-D	0.113	0.050	0.012	mg/kg	0.167	NA	67.4	60-125	NA	NA	
2,4-D.B.	0.133	0.050	0.011	mg/kg	0.167	NA	79.8	70-130	NA	NA	
Bentazon	0.135	0.050	0.0090	mg/kg	0.167	NA	80.6	65-125	NA	NA	
Dicamba	0.113	0.050	0.0080	mg/kg	0.167	NA	67.8	60-120	NA	NA	
Dinoseb	0.0812	0.050	0.0050	mg/kg	0.167	NA	48.6	30-120	NA	NA	
M.C.P.A.	0.112	0.050	0.014	mg/kg	0.167	NA	66.8	60-115	NA	NA	
Pentachlorophenol	0.121	0.050	0.0070	mg/kg	0.167	NA	72.4	50-120	NA	NA	
Picloram	0.0565	0.050	0.011	mg/kg	0.167	NA	33.8	30-100	NA	NA	
Triclopyr	0.124	0.050	0.0060	mg/kg	0.167	NA	74.0	65-120	NA	NA	
Surrogate: D.C.A.A.	*0.118*			mg/kg	*0.167*	*NA*	*70.8*	*50-125*			

Laboratory Control Sample Duplicate (B9I0428-BSD1)

Prepared: 09/21/09 Analyzed: 09/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.122	0.050	0.0090	mg/kg	0.164	NA	74.4	60-125	0.464	25	
2,4,5-T.P.	0.118	0.050	0.0070	mg/kg	0.164	NA	71.8	65-125	5.27	25	
2,4-D	0.121	0.050	0.012	mg/kg	0.164	NA	73.6	60-125	6.81	25	
2,4-D.B.	0.124	0.050	0.011	mg/kg	0.164	NA	75.8	70-130	7.12	25	
Bentazon	0.121	0.050	0.0090	mg/kg	0.164	NA	74.0	65-125	10.5	25	
Dicamba	0.111	0.050	0.0080	mg/kg	0.164	NA	68.0	60-120	1.69	25	
Dinoseb	0.0907	0.050	0.0050	mg/kg	0.164	NA	55.4	30-120	11.1	25	
M.C.P.A.	0.108	0.050	0.014	mg/kg	0.164	NA	65.8	60-115	3.49	25	
Pentachlorophenol	0.113	0.050	0.0070	mg/kg	0.164	NA	68.8	50-120	7.08	25	
Picloram	0.0681	0.050	0.011	mg/kg	0.164	NA	41.6	30-100	18.7	25	
Triclopyr	0.117	0.050	0.0060	mg/kg	0.164	NA	71.6	65-120	5.28	25	

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UMP018760

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904966
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0428 - EPA 3545

Laboratory Control Sample Duplicate (B9I0428-BSD1)

Prepared: 09/21/09 Analyzed: 09/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: D.C.A.A.	*0.112*			mg/kg	*0.164*	*NA*	*68.4*	*50-125*			

Matrix Spike (B9I0428-MS1)

Source: 0904966-01 Prepared: 09/21/09 Analyzed: 09/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.126	0.058	0.010	mg/kg dry	0.190	ND	66.4	30-130	NA	NA	
2,4,5-T.P.	0.132	0.058	0.0081	mg/kg dry	0.190	ND	69.6	40-130	NA	NA	
2,4-D	0.116	0.058	0.014	mg/kg dry	0.190	ND	61.2	30-125	NA	NA	
2,4-D.B.	0.142	0.058	0.013	mg/kg dry	0.190	ND	75.0	70-130	NA	NA	
Bentazon	0.135	0.058	0.010	mg/kg dry	0.190	ND	71.0	65-125	NA	NA	
Dicamba	0.123	0.058	0.0093	mg/kg dry	0.190	ND	64.6	30-120	NA	NA	
Dinoseb	0.0854	0.058	0.0058	mg/kg dry	0.190	ND	45.0	30-120	NA	NA	
M.C.P.A.	0.127	0.058	0.016	mg/kg dry	0.190	ND	66.8	30-120	NA	NA	
Pentachlorophenol	0.132	0.058	0.0081	mg/kg dry	0.190	ND	69.8	50-120	NA	NA	
Picloram	<0.058	0.058	0.013	mg/kg dry	0.190	ND	9.20	30-100	NA	NA	
Triclopyr	0.128	0.058	0.0070	mg/kg dry	0.190	ND	67.6	30-120	NA	NA	
Surrogate: D.C.A.A.	*0.148*			mg/kg dry	*0.190*	*NA*	*78.2*	*50-125*			

Matrix Spike (B9I0428-MS2)

Source: 0904980-06 Prepared: 09/21/09 Analyzed: 09/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.104	0.060	0.011	mg/kg dry	0.200	ND	51.8	30-130	NA	NA	
2,4,5-T.P.	0.130	0.060	0.0084	mg/kg dry	0.200	ND	65.0	40-130	NA	NA	
2,4-D	0.113	0.060	0.014	mg/kg dry	0.200	ND	56.4	30-125	NA	NA	
2,4-D.B.	0.147	0.060	0.013	mg/kg dry	0.200	ND	73.4	70-130	NA	NA	
Bentazon	0.223	0.060	0.011	mg/kg dry	0.200	ND	112	65-125	NA	NA	
Dicamba	0.114	0.060	0.0096	mg/kg dry	0.200	ND	56.8	30-120	NA	NA	
Dinoseb	0.104	0.060	0.0060	mg/kg dry	0.200	ND	52.2	30-120	NA	NA	
M.C.P.A.	0.125	0.060	0.017	mg/kg dry	0.200	ND	62.6	30-120	NA	NA	
Pentachlorophenol	0.133	0.060	0.0084	mg/kg dry	0.200	ND	66.4	50-120	NA	NA	
Picloram	<0.060	0.060	0.013	mg/kg dry	0.200	ND	NA	30-100	NA	NA	
Triclopyr	0.128	0.060	0.0072	mg/kg dry	0.200	ND	64.0	30-120	NA	NA	
Surrogate: D.C.A.A.	*0.138*			mg/kg dry	*0.200*	*NA*	*68.8*	*50-125*			

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UMP018761

BRAUN INTERTEC

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Minneapolis, MN 55438
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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904966
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0428 - EPA 3545

Matrix Spike Duplicate (B9I0428-MSD1)

Source: 0904966-01 Prepared: 09/21/09 Analyzed: 09/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.145	0.058	0.010	mg/kg dry	0.193	ND	75.0	30-130	13.7	25	
2,4,5-T.P.	0.133	0.058	0.0081	mg/kg dry	0.193	ND	69.0	40-130	0.650	25	
2,4-D	0.125	0.058	0.014	mg/kg dry	0.193	ND	64.8	30-125	7.23	25	
2,4-D.B.	0.145	0.058	0.013	mg/kg dry	0.193	ND	75.0	70-130	1.52	25	
Bentazon	0.137	0.058	0.010	mg/kg dry	0.193	ND	71.2	65-125	1.80	25	
Dicamba	0.134	0.058	0.0093	mg/kg dry	0.193	ND	69.4	30-120	8.68	25	
Dinoseb	0.0983	0.058	0.0058	mg/kg dry	0.193	ND	51.0	30-120	14.0	25	
M.C.P.A.	0.130	0.058	0.016	mg/kg dry	0.193	ND	67.6	30-120	2.71	25	
Pentachlorophenol	0.131	0.058	0.0081	mg/kg dry	0.193	ND	68.2	50-120	0.803	25	
Picloram	<0.058	0.058	0.013	mg/kg dry	0.193	ND	7.20	30-100	22.9	25	
Triclopyr	0.136	0.058	0.0070	mg/kg dry	0.193	ND	70.4	30-120	5.57	25	
Surrogate: D.C.A.A.	*0.148*			mg/kg dry	*0.193*	*NA*	*76.6*	*50-125*			

Matrix Spike Duplicate (B9I0428-MSD2)

Source: 0904980-06 Prepared: 09/21/09 Analyzed: 09/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.123	0.060	0.011	mg/kg dry	0.201	ND	61.2	30-130	17.1	25	
2,4,5-T.P.	0.131	0.060	0.0084	mg/kg dry	0.201	ND	65.2	40-130	0.772	25	
2,4-D	0.127	0.060	0.014	mg/kg dry	0.201	ND	63.4	30-125	12.1	25	
2,4-D.B.	0.153	0.060	0.013	mg/kg dry	0.201	ND	76.4	70-130	4.47	25	
Bentazon	0.204	0.060	0.011	mg/kg dry	0.201	ND	102	65-125	8.72	25	
Dicamba	0.121	0.060	0.0096	mg/kg dry	0.201	ND	60.2	30-120	6.28	25	
Dinoseb	0.109	0.060	0.0060	mg/kg dry	0.201	ND	54.2	30-120	4.22	25	
M.C.P.A.	0.142	0.060	0.017	mg/kg dry	0.201	ND	70.6	30-120	12.5	25	
Pentachlorophenol	0.135	0.060	0.0084	mg/kg dry	0.201	ND	67.2	50-120	1.66	25	
Picloram	<0.060	0.060	0.013	mg/kg dry	0.201	ND	NA	30-100	NA	25	
Triclopyr	0.144	0.060	0.0072	mg/kg dry	0.201	ND	71.6	30-120	11.7	25	
Surrogate: D.C.A.A.	*0.144*			mg/kg dry	*0.201*	*NA*	*71.8*	*50-125*			

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BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904966
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

0904966

Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number: 23/19-B05.07 SIRI 300

Project Name: UMA SSI/RI

Sample Origination State MN (use two letter postal state abbreviation)

COC Number: № 29016

COC 1 of 1

Project Manager: SME

Project QC Contact: KJN

Sampled by: EJC

Laboratory: Brown

Number of Containers/Preservative

Location	Start Depth	Stop Depth	Depth Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Water: VOCs (HCl) #1	Water: SVOCs (unpreserved) #2	Water: Dissolved Metals (HNO_3)	Water: Total Metals (HNO_3)	Water: General (unpreserved) #3	Water: Diesel Range Organics (HCl)	Water: Nutrients (H_2SO_4) #4 Nitrogen	Soil: VOCs (tared MeOH) #1	Soil: GRO, BTEX (tared MeOH) #1	Soil: DRO (tared unpreserved)	Soil: Metals (unpreserved)	Soil: SVOCs (unpreserved) #2	Soil: % Solids (plastic vial, unpres.)	QC Pesticides List 1+2 Pesticides	Total Number Of Containers	
1. SOC4-GP4 (1-2)	1	2	ft	9-10-09	1300		X	X	(Extra MS/MSD Volume)														3	3	3	9	List 1+2 Pest, OC Pest, see attached list
2. Dup-2 (Geoprobe)	—	—	—	9-10-09	1200		X			X													1	1	1	3	"
3. SOC4-GP4	—	—	—	9-10-09	1500	X		X									1									1	Nitrogen see attached list
4. SOC4-GP5	—	—	—	9-10-09	1700	X		X									1									1	"
5.																											
6.																											
7.																											
8.																											
9.																											
10.																											

Common Parameter/Container - Preservation Key

#1 - Volatile Organics = BTEX, GRO, TPH, 8260 Full List
#2 - Semivolatile Organics = PAHs, PCP, Dioxins, 8270 Full List, Herbicide/Pesticide/PCBs
#3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
#4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
[signature]	Y N	9-11-09	0925			
Relinquished By:	On Ice? Y N	Date	Time	Received by: [signature]	Date 9/11/09	Time 1015

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other:

Air Bill Number: 5.3°C + ICE + TB + CS

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

H:\RLG\STDFORMS\Chain Of Custody Form 2009 RLG Rev. 09/01/09

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Braun Intertec Corporation
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Web: braunintertec.com

Ms. Kelly Neppl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

October 06, 2009

Work Order #: 0904980

RE: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300

Dear Kelly Neppl:

Braun Intertec Corporation received samples for the project identified above on September 11, 2009. Analytical results are summarized in the following report.

All routine quality assurance procedures were followed, unless otherwise noted.

Analytical results are reported on an "as received" basis unless otherwise noted. Where possible, the samples will be retained by the laboratory for 14 days following issuance of the initial final report. The samples will be disposed of or returned at that time. Arrangements can be made for extended storage by contacting me at this time.

We appreciate your decision to use Braun Intertec Corporation for this project. We are committed to being your vendor of choice to meet your analytical chemistry needs.

If you have any questions please contact me at the above phone number.

Sincerely,

Steven J. Albrecht

Steven J. Albrecht
Associate Principal

Certification/Accreditation Numbers

Minnesota Department of Health: 027-053-117 Wisconsin DNR: 999462640

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

How to Use this Report

In order to get the most out of the information presented in this report please refer to the following explanations as to how the data in this report is tied together and how some of the terms are defined.

Qualifiers and Abbreviations are defined in the following section. You will find these codes used throughout the report in headers and in note sections to designate a unique fact about the data to which they are associated.

The Case Narrative gives a "story" about the analysis and results. Here you will find greater elaboration on relevant qualifiers as well as an explanation of anything of particular note in the data. This is a discussion of the data in terms of quality control and chemistry. It is a summary of any deviations that could affect the usefulness of the data. This is not an interpretation as to how this information relates to regulatory compliance, toxicity, or hazardous characterization. These items are beyond the scope of this report.

The Sample Summary provides detail on sample receipt. The association between Client sample ID and the Laboratory sample ID are defined here; this information is valuable to have when discussing results with your project manager. Sample collection and receipt dates and times are provided here as well. General notes regarding the work order are also documented here. This is a mini "case narrative" that describes any anomalies regarding the condition of the samples upon arrival to the laboratory or special circumstances regarding the work order.

The Conditions Upon Receipt summarizes the results of specific checks that have been performed at sample receipt. This includes items like custody documentation, sample condition, and temperature at receipt. Each "cooler" is identified and the conditions associated with that cooler are documented. A "cooler" is defined as the larger container used to transport the individual samples. In most cases this is a standard recreational cooler but it can be a box, plastic bag, or other container.

The laboratory results are summarized in the following sections. Data is broken down into major categories for convenience. An example of such a category would be "Total Petroleum Hydrocarbons." Here you would find data that references the testing of such parameters as diesel range organics and gasoline range organics. Other categories are similarly mapped. The batch number is associated with each sample. This is important to evaluate Quality Control (QC) data. Surrogate results samples are provided with each sample. Laboratory control limits are provided for comparison (see below). The reference method is also identified. If a method is denoted with an "M" (e.g. EPA 1234(M)) this means that it has been modified. An explanation of the modification will be found in the Case Narrative. A result is given with appropriate units. If a soil sample is dry-weight corrected then the word "dry" will appear next to the units. If the word "dry" does not appear then the result is "as received."

The Method Reporting Limit (MRL) and Method Detection Limit (MDL) are provided. It is important to understand these terms. The MRL is a level that has been empirically verified to provide reliable quantitation of results. Results that are equal to or greater than this value will show up in bold. They are considered "hits." The MDL is a statistically derived number that indicates an estimated concentration at which an analyte can be detected above the noise level. If a result is less than the MRL but greater than the MDL then it is considered an estimate. Such a result is reported with a "J" flag denoting that it has been detected but that the result is an estimate.

In this specific report format, the majority of the analyses are reported without estimated concentrations less than the MRL. For these analyses, if a result is less than the MRL, the result is given as less than the MRL (e.g. if the MRL = 10 then a less than result would be given as "<10"). However, for the Organochlorine Pesticides in water and MDA List 1 Pesticides in water analyses, if a result is less than the MRL but greater than the MDL, then an estimated result is reported with a "J" flag. If a result for either of these two analyses is less than the MDL, then the result is given as less than the MDL.

The Quality Control (QC) samples are documented in the following section. Here you will find the preparation batches associated with each sample from the results section. The sample preparation method is also defined here. Accuracy is represented here in terms of a percent recovery as compared to a known value. Precision is represented as a relative percent difference between two duplicate sample aliquots. The laboratory control limits are provided as a means to evaluate the quality control data. If the result falls outside the laboratory control limits this simply means that it is outside what is typical for the laboratory and is noted accordingly. This does not mean that the data is invalid. Laboratory control limits are generally tighter than most program limits. This is a very important distinction. How the data is ultimately used determines its validity. Program requirements are defined in the Quality Assurance Project Plan (QAPP) governing the project. If your project manager is aware of your specific program requirements then a note will be made in the case narrative if the data fails to meet any of these requirements.

The last section contains copies of important documents and/or instrument printouts relevant to the report. This includes the chain of custody. It also may include items like chromatograms or spectra.

Please note that this report is paginated and must be reproduced in its entirety.

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Qualifiers and Abbreviations

vn	The surrogate recovery is below the laboratory generated control limits.
sur	One or more surrogate recoveries reported with this sample analysis are outside of the laboratory control limits.
qn	The spike recovery is outside of laboratory control limits for the matrix spike (MS) and/or the matrix spike duplicate (MSD).
J	Detected but below the Method Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
go	The laboratory control sample recovery is outside of laboratory control limits.
COC	Chain of Custody
dry	Sample results reported on a dry weight basis
MDL	Method Detection Limit
MRL	Method Reporting Limit
NA	Not Applicable
ND	Analyte NOT DETECTED
NR	Not Reported
%Rec	Percent Recovery
RPD	Relative Percent Difference
VOC	Volatile Organic Compound

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC5-TT7-4'	0904980-01	Soil	09/08/09 12:00	09/11/09 13:36
SOC5-TT9-13'	0904980-02	Soil	09/08/09 14:00	09/11/09 13:36
SOC5-TT13-3'	0904980-03	Soil	09/10/09 12:00	09/11/09 13:36
SOC5-TT18-4'	0904980-04	Soil	09/09/09 10:00	09/11/09 13:36
SOC5-TT25-5'	0904980-05	Soil	09/09/09 12:00	09/11/09 13:36
SOC5-SS8-0.5'	0904980-06	Soil	09/10/09 13:00	09/11/09 13:36
SOC5-SS10-0.5'	0904980-07	Soil	09/10/09 15:00	09/11/09 13:36
SOC5-M1	0904980-08	Soil	09/10/09 00:00	09/11/09 13:36
M2	0904980-09	Soil	09/10/09 00:00	09/11/09 13:36
SOC4-TT9-6'	0904980-10	Soil	09/10/09 14:30	09/11/09 13:36
FB-2	0904980-11	Water	09/10/09 17:30	09/11/09 13:36

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Conditions Upon Receipt

Cooler: Cooler 1

Temperature:	2.6 °C	**COC Included:**	Yes	**Custody Seals Used:**	Yes
Temperature Blank:	Yes	**COC Complete:**	Yes	**Custody Seals Intact:**	Yes
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	No
Preservation Confirmed:	No	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

Cooler: Cooler 2

Temperature:	3.7 °C	**COC Included:**	Yes	**Custody Seals Used:**	Yes
Temperature Blank:	Yes	**COC Complete:**	Yes	**Custody Seals Intact:**	Yes
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	No
Preservation Confirmed:	No	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

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SOC5-TT7-4'

0904980-01 (Soil)

9/8/09 12:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**97**	0.050	0.010	% Wt	B9I0273	9/15/09 6:02	9/15/09 10:43	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.077	0.077	0.0046	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:23	EPA 8081A	
4,4'-DDE	<0.077	0.077	0.0080	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:23	EPA 8081A	
4,4'-DDT	<0.077	0.077	0.0071	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:23	EPA 8081A	
Aldrin	<0.077	0.077	0.0098	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:23	EPA 8081A	
alpha-BHC	<0.077	0.077	0.0071	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:23	EPA 8081A	
alpha-Chlordane	<0.077	0.077	0.0062	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:23	EPA 8081A	
beta-BHC	<0.077	0.077	0.0071	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:23	EPA 8081A	
delta-BHC	<0.077	0.077	0.0055	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:23	EPA 8081A	
Dieldrin	<0.077	0.077	0.0068	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:23	EPA 8081A	
Endosulfan I	<0.077	0.077	0.0086	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:23	EPA 8081A	
Endosulfan II	<0.077	0.077	0.0065	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:23	EPA 8081A	
Endosulfan Sulfate	<0.077	0.077	0.0071	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:23	EPA 8081A	
Endrin	<0.077	0.077	0.0086	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:23	EPA 8081A	
Endrin Aldehyde	<0.077	0.077	0.030	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:23	EPA 8081A	qn
Endrin Ketone	<0.077	0.077	0.0095	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:23	EPA 8081A	
gamma-BHC	<0.077	0.077	0.0077	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:23	EPA 8081A	
gamma-Chlordane	<0.077	0.077	0.0052	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:23	EPA 8081A	
Heptachlor	<0.077	0.077	0.017	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:23	EPA 8081A	
Heptachlor Epoxide	<0.077	0.077	0.013	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:23	EPA 8081A	
Methoxychlor	<0.077	0.077	0.0065	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:49	EPA 8081A	
Toxaphene	<1.5	1.5	0.30	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:23	EPA 8081A	
Surr: DBC	*92.4 %*	*Limits: 40-160%*			*B9I0286*	*9/15/09 9:49*	*9/17/09 21:49*	*EPA 8081A*	
Surr: TCMX	*91.0 %*	*Limits: 60-130%*			*B9I0286*	*9/15/09 9:49*	*9/17/09 21:23*	*EPA 8081A*	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-TT7-4'

0904980-01 (Soil)

9/8/09 12:00

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.041	0.041	0.010	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:37	EPA 8270C	
Alachlor	<0.041	0.041	0.0072	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:37	EPA 8270C	
Atrazine	<0.041	0.041	0.010	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:37	EPA 8270C	
Chlorpyrifos	<0.041	0.041	0.0072	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:37	EPA 8270C	
Cyanazine	<0.041	0.041	0.0083	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:37	EPA 8270C	
Deisopropylatrazine	<0.041	0.041	0.0083	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:37	EPA 8270C	
Desethylatrazine	<0.041	0.041	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:37	EPA 8270C	
Dimethenamid	<0.041	0.041	0.0062	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:37	EPA 8270C	
EPTC	<0.041	0.041	0.0062	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:37	EPA 8270C	
Ethalfluralin	<0.041	0.041	0.014	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:37	EPA 8270C	
Fonofos	<0.041	0.041	0.0041	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:37	EPA 8270C	
Metolachlor	<0.041	0.041	0.0031	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:37	EPA 8270C	
Metribuzin	<0.041	0.041	0.0093	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:37	EPA 8270C	
Pendimethalin	<0.041	0.041	0.017	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:37	EPA 8270C	
Phorate	<0.041	0.041	0.0062	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:37	EPA 8270C	
Prometon	<0.041	0.041	0.0062	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:37	EPA 8270C	
Propachlor	<0.041	0.041	0.0093	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:37	EPA 8270C	
Propazine	<0.041	0.041	0.0072	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:37	EPA 8270C	
Simazine	<0.041	0.041	0.0093	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:37	EPA 8270C	
Terbufos	<0.041	0.041	0.0093	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:37	EPA 8270C	
Triallate	<0.041	0.041	0.0052	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:37	EPA 8270C	
Trifluralin	<0.041	0.041	0.014	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 19:37	EPA 8270C	
Surr: Atrazine-d5	*95.0 %*	*Limits: 50-125%*			*B9I0441*	*9/22/09 6:31*	*9/23/09 19:37*	*EPA 8270C*	
Surr: Diazinon-d10	*84.7 %*	*Limits: 35-120%*			*B9I0441*	*9/22/09 6:31*	*9/23/09 19:37*	*EPA 8270C*	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-TT7-4'

0904980-01 (Soil)

9/8/09 12:00

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.051	0.051	0.0091	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 18:43	EPA 8270C	
2,4,5-T.P.	<0.051	0.051	0.0071	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 18:43	EPA 8270C	
2,4-D	<0.051	0.051	0.012	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 18:43	EPA 8270C	
2,4-D.B.	<0.051	0.051	0.011	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 18:43	EPA 8270C	
Bentazon	<0.051	0.051	0.0091	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 18:43	EPA 8270C	
Dicamba	<0.051	0.051	0.0081	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 18:43	EPA 8270C	
Dinoseb	<0.051	0.051	0.0051	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 18:43	EPA 8270C	
M.C.P.A.	<0.051	0.051	0.014	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 18:43	EPA 8270C	
Pentachlorophenol	<0.051	0.051	0.0071	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 18:43	EPA 8270C	
Picloram	<0.051	0.051	0.011	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 18:43	EPA 8270C	qn
Triclopyr	<0.051	0.051	0.0061	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 18:43	EPA 8270C	
Surr: D.C.A.A.	*68.0 %*	*Limits: 50-125%*			*B9I0428*	*9/21/09 13:29*	*9/29/09 18:43*	*EPA 8270C*	

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-TT9-13'

0904980-02 (Soil)

9/8/09 14:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**98**	0.050	0.010	% Wt	B9I0273	9/15/09 6:02	9/15/09 10:43	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.072	0.072	0.0043	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:49	EPA 8081A	
4,4'-DDE	<0.072	0.072	0.0074	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:49	EPA 8081A	
4,4'-DDT	<0.072	0.072	0.0066	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:49	EPA 8081A	
Aldrin	<0.072	0.072	0.0092	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:49	EPA 8081A	
alpha-BHC	<0.072	0.072	0.0066	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:49	EPA 8081A	
alpha-Chlordane	<0.072	0.072	0.0057	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:49	EPA 8081A	
beta-BHC	<0.072	0.072	0.0066	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:49	EPA 8081A	
delta-BHC	<0.072	0.072	0.0051	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:49	EPA 8081A	
Dieldrin	<0.072	0.072	0.0063	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:49	EPA 8081A	
Endosulfan I	<0.072	0.072	0.0080	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:49	EPA 8081A	
Endosulfan II	<0.072	0.072	0.0060	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:49	EPA 8081A	
Endosulfan Sulfate	<0.072	0.072	0.0066	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:49	EPA 8081A	
Endrin	<0.072	0.072	0.0080	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:49	EPA 8081A	
Endrin Aldehyde	<0.072	0.072	0.027	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:49	EPA 8081A	qn
Endrin Ketone	<0.072	0.072	0.0089	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:49	EPA 8081A	
gamma-BHC	<0.072	0.072	0.0072	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:49	EPA 8081A	
gamma-Chlordane	<0.072	0.072	0.0049	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:49	EPA 8081A	
Heptachlor	<0.072	0.072	0.015	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:49	EPA 8081A	
Heptachlor Epoxide	<0.072	0.072	0.012	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:49	EPA 8081A	
Methoxychlor	<0.072	0.072	0.0060	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:20	EPA 8081A	
Toxaphene	<1.4	1.4	0.27	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 21:49	EPA 8081A	
Surr: DBC	*85.6 %*	*Limits: 40-160%*			*B9I0286*	*9/15/09 9:49*	*9/17/09 22:20*	*EPA 8081A*	
Surr: TCMX	*86.9 %*	*Limits: 60-130%*			*B9I0286*	*9/15/09 9:49*	*9/17/09 22:20*	*EPA 8081A*	

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SOC5-TT9-13'

0904980-02 (Soil)

9/8/09 14:00

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.041	0.041	0.010	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:03	EPA 8270C	
Alachlor	<0.041	0.041	0.0071	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:03	EPA 8270C	
Atrazine	<0.041	0.041	0.010	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:03	EPA 8270C	
Chlorpyrifos	<0.041	0.041	0.0071	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:03	EPA 8270C	
Cyanazine	<0.041	0.041	0.0082	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:03	EPA 8270C	
Deisopropylatrazine	<0.041	0.041	0.0082	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:03	EPA 8270C	
Desethylatrazine	<0.041	0.041	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:03	EPA 8270C	
Dimethenamid	<0.041	0.041	0.0061	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:03	EPA 8270C	
EPTC	<0.041	0.041	0.0061	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:03	EPA 8270C	
Ethalfluralin	<0.041	0.041	0.014	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:03	EPA 8270C	
Fonofos	<0.041	0.041	0.0041	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:03	EPA 8270C	
Metolachlor	<0.041	0.041	0.0031	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:03	EPA 8270C	
Metribuzin	<0.041	0.041	0.0092	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:03	EPA 8270C	
Pendimethalin	<0.041	0.041	0.016	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:03	EPA 8270C	
Phorate	<0.041	0.041	0.0061	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:03	EPA 8270C	
Prometon	<0.041	0.041	0.0061	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:03	EPA 8270C	
Propachlor	<0.041	0.041	0.0092	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:03	EPA 8270C	
Propazine	<0.041	0.041	0.0071	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:03	EPA 8270C	
Simazine	<0.041	0.041	0.0092	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:03	EPA 8270C	
Terbufos	<0.041	0.041	0.0092	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:03	EPA 8270C	
Triallate	<0.041	0.041	0.0051	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:03	EPA 8270C	
Trifluralin	<0.041	0.041	0.014	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:03	EPA 8270C	
Surr: Atrazine-d5	*92.2 %*	*Limits: 50-125%*			*B9I0441*	*9/22/09 6:31*	*9/23/09 20:03*	*EPA 8270C*	
Surr: Diazinon-d10	*91.1 %*	*Limits: 35-120%*			*B9I0441*	*9/22/09 6:31*	*9/23/09 20:03*	*EPA 8270C*	

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BRAUN INTERTEC

11001 Hampshire Ave. S.
Minneapolis, MN 55438
952.995.2000 Phone
952.995.2020 Fax

Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-TT9-13'

0904980-02 (Soil)

9/8/09 14:00

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.051	0.051	0.0092	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 19:08	EPA 8270C	
2,4,5-T.P.	<0.051	0.051	0.0071	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 19:08	EPA 8270C	
2,4-D	<0.051	0.051	0.012	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 19:08	EPA 8270C	
2,4-D.B.	<0.051	0.051	0.011	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 19:08	EPA 8270C	
Bentazon	<0.051	0.051	0.0092	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 19:08	EPA 8270C	
Dicamba	<0.051	0.051	0.0082	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 19:08	EPA 8270C	
Dinoseb	<0.051	0.051	0.0051	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 19:08	EPA 8270C	
M.C.P.A.	<0.051	0.051	0.014	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 19:08	EPA 8270C	
Pentachlorophenol	<0.051	0.051	0.0071	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 19:08	EPA 8270C	
Picloram	<0.051	0.051	0.011	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 19:08	EPA 8270C	qn
Triclopyr	<0.051	0.051	0.0061	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 19:08	EPA 8270C	
Surr: D.C.A.A.	*63.4 %*	*Limits: 50-125%*			*B9I0428*	*9/21/09 13:29*	*9/29/09 19:08*	*EPA 8270C*	

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Minneapolis, MN 55438
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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-TT13-3'

0904980-03 (Soil)

9/10/09 12:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**97**	0.050	0.010	% Wt	B9I0273	9/15/09 6:02	9/15/09 10:43	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.072	0.072	0.0043	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:20	EPA 8081A	
4,4'-DDE	<0.072	0.072	0.0075	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:20	EPA 8081A	
4,4'-DDT	<0.072	0.072	0.0067	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:20	EPA 8081A	
Aldrin	<0.072	0.072	0.0093	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:20	EPA 8081A	
alpha-BHC	<0.072	0.072	0.0067	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:20	EPA 8081A	
alpha-Chlordane	<0.072	0.072	0.0058	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:20	EPA 8081A	
beta-BHC	<0.072	0.072	0.0067	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:20	EPA 8081A	
delta-BHC	<0.072	0.072	0.0052	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:20	EPA 8081A	
Dieldrin	<0.072	0.072	0.0064	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:20	EPA 8081A	
Endosulfan I	<0.072	0.072	0.0081	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:20	EPA 8081A	
Endosulfan II	<0.072	0.072	0.0061	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:20	EPA 8081A	
Endosulfan Sulfate	<0.072	0.072	0.0067	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:20	EPA 8081A	
Endrin	<0.072	0.072	0.0081	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:20	EPA 8081A	
Endrin Aldehyde	<0.072	0.072	0.028	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:20	EPA 8081A	qn
Endrin Ketone	<0.072	0.072	0.0090	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:20	EPA 8081A	
gamma-BHC	<0.072	0.072	0.0072	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:20	EPA 8081A	
gamma-Chlordane	<0.072	0.072	0.0049	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:20	EPA 8081A	
Heptachlor	<0.072	0.072	0.016	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:20	EPA 8081A	
Heptachlor Epoxide	<0.072	0.072	0.012	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:20	EPA 8081A	
Methoxychlor	<0.072	0.072	0.0061	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:46	EPA 8081A	
Toxaphene	<1.4	1.4	0.28	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:20	EPA 8081A	
Surr: DBC	*86.5 %*	*Limits: 40-160%*			*B9I0286*	*9/15/09 9:49*	*9/17/09 22:46*	*EPA 8081A*	
Surr: TCMX	*86.1 %*	*Limits: 60-130%*			*B9I0286*	*9/15/09 9:49*	*9/17/09 22:20*	*EPA 8081A*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-TT13-3'

0904980-03 (Soil)

9/10/09 12:00

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.040	0.040	0.010	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:29	EPA 8270C	
Alachlor	<0.040	0.040	0.0070	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:29	EPA 8270C	
Atrazine	<0.040	0.040	0.010	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:29	EPA 8270C	
Chlorpyrifos	<0.040	0.040	0.0070	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:29	EPA 8270C	
Cyanazine	<0.040	0.040	0.0081	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:29	EPA 8270C	
Deisopropylatrazine	<0.040	0.040	0.0081	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:29	EPA 8270C	
Desethylatrazine	<0.040	0.040	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:29	EPA 8270C	
Dimethenamid	<0.040	0.040	0.0060	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:29	EPA 8270C	
EPTC	<0.040	0.040	0.0060	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:29	EPA 8270C	
Ethalfluralin	<0.040	0.040	0.014	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:29	EPA 8270C	
Fonofos	<0.040	0.040	0.0040	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:29	EPA 8270C	
Metolachlor	<0.040	0.040	0.0030	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:29	EPA 8270C	
Metribuzin	<0.040	0.040	0.0091	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:29	EPA 8270C	
Pendimethalin	<0.040	0.040	0.016	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:29	EPA 8270C	
Phorate	<0.040	0.040	0.0060	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:29	EPA 8270C	
Prometon	<0.040	0.040	0.0060	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:29	EPA 8270C	
Propachlor	<0.040	0.040	0.0091	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:29	EPA 8270C	
Propazine	<0.040	0.040	0.0070	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:29	EPA 8270C	
Simazine	<0.040	0.040	0.0091	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:29	EPA 8270C	
Terbufos	<0.040	0.040	0.0091	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:29	EPA 8270C	
Triallate	<0.040	0.040	0.0050	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:29	EPA 8270C	
Trifluralin	<0.040	0.040	0.014	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:29	EPA 8270C	
Surr: Atrazine-d5	*95.8 %*	*Limits: 50-125%*			*B9I0441*	*9/22/09 6:31*	*9/23/09 20:29*	*EPA 8270C*	
Surr: Diazinon-d10	*97.0 %*	*Limits: 35-120%*			*B9I0441*	*9/22/09 6:31*	*9/23/09 20:29*	*EPA 8270C*	

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11001 Hampshire Ave. S.
Minneapolis, MN 55438
952.995.2000 Phone
952.995.2020 Fax

Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-TT13-3'

0904980-03 (Soil)

9/10/09 12:00

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.052	0.052	0.0093	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 19:33	EPA 8270C	
2,4,5-T.P.	<0.052	0.052	0.0072	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 19:33	EPA 8270C	
2,4-D	<0.052	0.052	0.012	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 19:33	EPA 8270C	
2,4-D.B.	<0.052	0.052	0.011	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 19:33	EPA 8270C	
Bentazon	<0.052	0.052	0.0093	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 19:33	EPA 8270C	
Dicamba	<0.052	0.052	0.0082	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 19:33	EPA 8270C	
Dinoseb	<0.052	0.052	0.0052	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 19:33	EPA 8270C	
M.C.P.A.	<0.052	0.052	0.014	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 19:33	EPA 8270C	
Pentachlorophenol	<0.052	0.052	0.0072	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 19:33	EPA 8270C	
Picloram	<0.052	0.052	0.011	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 19:33	EPA 8270C	qn
Triclopyr	<0.052	0.052	0.0062	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 19:33	EPA 8270C	
Surr: D.C.A.A.	*64.8 %*	*Limits: 50-125%*			*B9I0428*	*9/21/09 13:29*	*9/29/09 19:33*	*EPA 8270C*	

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UMP018777

BRAUN INTERTEC

11001 Hampshire Ave. S.
Minneapolis, MN 55438
952.995.2000 Phone
952.995.2020 Fax

Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-TT18-4'

0904980-04 (Soil)

9/9/09 10:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**88**	0.050	0.010	% Wt	B9I0273	9/15/09 6:02	9/15/09 10:43	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.082	0.082	0.0049	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:46	EPA 8081A	
4,4'-DDE	<0.082	0.082	0.0085	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:46	EPA 8081A	
4,4'-DDT	<0.082	0.082	0.0076	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:46	EPA 8081A	
Aldrin	<0.082	0.082	0.011	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:46	EPA 8081A	
alpha-BHC	<0.082	0.082	0.0076	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:46	EPA 8081A	
alpha-Chlordane	<0.082	0.082	0.0066	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:46	EPA 8081A	
beta-BHC	<0.082	0.082	0.0076	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:46	EPA 8081A	
delta-BHC	<0.082	0.082	0.0059	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:46	EPA 8081A	
Dieldrin	<0.082	0.082	0.0072	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:46	EPA 8081A	
Endosulfan I	<0.082	0.082	0.0092	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:46	EPA 8081A	
Endosulfan II	<0.082	0.082	0.0069	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:46	EPA 8081A	
Endosulfan Sulfate	<0.082	0.082	0.0076	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:46	EPA 8081A	
Endrin	<0.082	0.082	0.0092	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:46	EPA 8081A	
Endrin Aldehyde	<0.082	0.082	0.032	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:46	EPA 8081A	qn
Endrin Ketone	<0.082	0.082	0.010	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:46	EPA 8081A	
gamma-BHC	<0.082	0.082	0.0082	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:46	EPA 8081A	
gamma-Chlordane	<0.082	0.082	0.0056	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:46	EPA 8081A	
Heptachlor	<0.082	0.082	0.018	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:46	EPA 8081A	
Heptachlor Epoxide	<0.082	0.082	0.014	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:46	EPA 8081A	
Methoxychlor	<0.082	0.082	0.0069	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:46	EPA 8081A	
Toxaphene	<1.6	1.6	0.32	mg/kg dry	B9I0286	9/15/09 9:49	9/17/09 22:46	EPA 8081A	
Surr: DBC	*89.5 %*	*Limits: 40-160%*			*B9I0286*	*9/15/09 9:49*	*9/17/09 23:12*	*EPA 8081A*	
Surr: TCMX	*88.7 %*	*Limits: 60-130%*			*B9I0286*	*9/15/09 9:49*	*9/17/09 22:46*	*EPA 8081A*	

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BRAUN INTERTEC

11001 Hampshire Ave. S.
Minneapolis, MN 55438
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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-TT18-4'

0904980-04 (Soil)

9/9/09 10:00

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.045	0.045	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:55	EPA 8270C	
Alachlor	<0.045	0.045	0.0079	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:55	EPA 8270C	
Atrazine	<0.045	0.045	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:55	EPA 8270C	
Chlorpyrifos	<0.045	0.045	0.0079	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:55	EPA 8270C	
Cyanazine	<0.045	0.045	0.0091	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:55	EPA 8270C	
Deisopropylatrazine	<0.045	0.045	0.0091	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:55	EPA 8270C	
Desethylatrazine	<0.045	0.045	0.012	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:55	EPA 8270C	
Dimethenamid	<0.045	0.045	0.0068	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:55	EPA 8270C	
EPTC	<0.045	0.045	0.0068	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:55	EPA 8270C	
Ethalfluralin	<0.045	0.045	0.016	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:55	EPA 8270C	
Fonofos	<0.045	0.045	0.0045	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:55	EPA 8270C	
Metolachlor	<0.045	0.045	0.0034	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:55	EPA 8270C	
Metribuzin	<0.045	0.045	0.010	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:55	EPA 8270C	
Pendimethalin	<0.045	0.045	0.018	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:55	EPA 8270C	
Phorate	<0.045	0.045	0.0068	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:55	EPA 8270C	
Prometon	<0.045	0.045	0.0068	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:55	EPA 8270C	
Propachlor	<0.045	0.045	0.010	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:55	EPA 8270C	
Propazine	<0.045	0.045	0.0079	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:55	EPA 8270C	
Simazine	<0.045	0.045	0.010	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:55	EPA 8270C	
Terbufos	<0.045	0.045	0.010	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:55	EPA 8270C	
Triallate	<0.045	0.045	0.0057	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:55	EPA 8270C	
Trifluralin	<0.045	0.045	0.016	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 20:55	EPA 8270C	
Surr: Atrazine-d5	*93.2 %*	*Limits: 50-125%*			*B9I0441*	*9/22/09 6:31*	*9/23/09 20:55*	*EPA 8270C*	
Surr: Diazinon-d10	*87.0 %*	*Limits: 35-120%*			*B9I0441*	*9/22/09 6:31*	*9/23/09 20:55*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-TT18-4'

0904980-04 (Soil)

9/9/09 10:00

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.057	0.057	0.010	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 19:58	EPA 8270C	
2,4,5-T.P.	<0.057	0.057	0.0079	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 19:58	EPA 8270C	
2,4-D	<0.057	0.057	0.014	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 19:58	EPA 8270C	
2,4-D.B.	<0.057	0.057	0.012	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 19:58	EPA 8270C	
Bentazon	<0.057	0.057	0.010	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 19:58	EPA 8270C	
Dicamba	<0.057	0.057	0.0091	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 19:58	EPA 8270C	
Dinoseb	<0.057	0.057	0.0057	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 19:58	EPA 8270C	
M.C.P.A.	<0.057	0.057	0.016	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 19:58	EPA 8270C	
Pentachlorophenol	<0.057	0.057	0.0079	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 19:58	EPA 8270C	
Picloram	<0.057	0.057	0.012	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 19:58	EPA 8270C	qn
Triclopyr	<0.057	0.057	0.0068	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 19:58	EPA 8270C	
Surr: D.C.A.A.	*77.8 %*	*Limits: 50-125%*			*B9I0428*	*9/21/09 13:29*	*9/29/09 19:58*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-TT25-5'

0904980-05 (Soil)

9/9/09 12:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**89**	0.050	0.010	% Wt	B9I0273	9/15/09 6:02	9/15/09 10:43	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.077	0.077	0.0046	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:04	EPA 8081A	
4,4'-DDE	<0.077	0.077	0.0080	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:04	EPA 8081A	
4,4'-DDT	<0.077	0.077	0.0071	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:04	EPA 8081A	
Aldrin	<0.077	0.077	0.0099	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:04	EPA 8081A	
alpha-BHC	<0.077	0.077	0.0071	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:04	EPA 8081A	
alpha-Chlordane	<0.077	0.077	0.0062	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:04	EPA 8081A	
beta-BHC	<0.077	0.077	0.0071	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:04	EPA 8081A	
delta-BHC	<0.077	0.077	0.0056	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:04	EPA 8081A	
Dieldrin	<0.077	0.077	0.0068	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:04	EPA 8081A	
Endosulfan I	<0.077	0.077	0.0086	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:04	EPA 8081A	
Endosulfan II	<0.077	0.077	0.0065	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:04	EPA 8081A	
Endosulfan Sulfate	<0.077	0.077	0.0071	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:04	EPA 8081A	
Endrin	<0.077	0.077	0.0086	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:04	EPA 8081A	
Endrin Aldehyde	<0.077	0.077	0.030	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:04	EPA 8081A	qn
Endrin Ketone	<0.077	0.077	0.0096	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:04	EPA 8081A	
gamma-BHC	<0.077	0.077	0.0077	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:04	EPA 8081A	
gamma-Chlordane	<0.077	0.077	0.0053	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:04	EPA 8081A	
Heptachlor	<0.077	0.077	0.017	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:04	EPA 8081A	
Heptachlor Epoxide	<0.077	0.077	0.013	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:04	EPA 8081A	
Methoxychlor	<0.077	0.077	0.0065	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:30	EPA 8081A	
Toxaphene	<1.5	1.5	0.30	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:04	EPA 8081A	
Surr: DBC	*76.5 %*	*Limits: 40-160%*			*B9I0286*	*9/15/09 9:49*	*9/18/09 0:30*	*EPA 8081A*	
Surr: TCMX	*75.6 %*	*Limits: 60-130%*			*B9I0286*	*9/15/09 9:49*	*9/18/09 0:04*	*EPA 8081A*	

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UMP018781

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-TT25-5'

0904980-05 (Soil)

9/9/09 12:00

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.044	0.044	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:21	EPA 8270C	
Alachlor	<0.044	0.044	0.0077	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:21	EPA 8270C	
Atrazine	<0.044	0.044	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:21	EPA 8270C	
Chlorpyrifos	<0.044	0.044	0.0077	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:21	EPA 8270C	
Cyanazine	<0.044	0.044	0.0088	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:21	EPA 8270C	
Deisopropylatrazine	<0.044	0.044	0.0088	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:21	EPA 8270C	
Desethylatrazine	<0.044	0.044	0.012	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:21	EPA 8270C	
Dimethenamid	<0.044	0.044	0.0066	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:21	EPA 8270C	
EPTC	<0.044	0.044	0.0066	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:21	EPA 8270C	
Ethalfluralin	<0.044	0.044	0.015	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:21	EPA 8270C	
Fonofos	<0.044	0.044	0.0044	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:21	EPA 8270C	
Metolachlor	<0.044	0.044	0.0033	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:21	EPA 8270C	
Metribuzin	<0.044	0.044	0.0099	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:21	EPA 8270C	
Pendimethalin	<0.044	0.044	0.018	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:21	EPA 8270C	
Phorate	<0.044	0.044	0.0066	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:21	EPA 8270C	
Prometon	<0.044	0.044	0.0066	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:21	EPA 8270C	
Propachlor	<0.044	0.044	0.0099	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:21	EPA 8270C	
Propazine	<0.044	0.044	0.0077	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:21	EPA 8270C	
Simazine	<0.044	0.044	0.0099	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:21	EPA 8270C	
Terbufos	<0.044	0.044	0.0099	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:21	EPA 8270C	
Triallate	<0.044	0.044	0.0055	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:21	EPA 8270C	
Trifluralin	<0.044	0.044	0.015	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:21	EPA 8270C	
Surr: Atrazine-d5	*87.7 %*	*Limits: 50-125%*			*B9I0441*	*9/22/09 6:31*	*9/23/09 21:21*	*EPA 8270C*	
Surr: Diazinon-d10	*84.5 %*	*Limits: 35-120%*			*B9I0441*	*9/22/09 6:31*	*9/23/09 21:21*	*EPA 8270C*	

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UMP018782

BRAUN INTERTEC

11001 Hampshire Ave. S.
Minneapolis, MN 55438
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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-TT25-5'

0904980-05 (Soil)

9/9/09 12:00

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.056	0.056	0.010	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 20:23	EPA 8270C	
2,4,5-T.P.	<0.056	0.056	0.0079	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 20:23	EPA 8270C	
2,4-D	<0.056	0.056	0.014	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 20:23	EPA 8270C	
2,4-D.B.	<0.056	0.056	0.012	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 20:23	EPA 8270C	
Bentazon	<0.056	0.056	0.010	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 20:23	EPA 8270C	
Dicamba	<0.056	0.056	0.0090	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 20:23	EPA 8270C	
Dinoseb	<0.056	0.056	0.0056	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 20:23	EPA 8270C	
M.C.P.A.	<0.056	0.056	0.016	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 20:23	EPA 8270C	
Pentachlorophenol	<0.056	0.056	0.0079	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 20:23	EPA 8270C	
Picloram	<0.056	0.056	0.012	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 20:23	EPA 8270C	qn
Triclopyr	<0.056	0.056	0.0068	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 20:23	EPA 8270C	
Surr: D.C.A.A.	*68.4 %*	*Limits: 50-125%*			*B9I0428*	*9/21/09 13:29*	*9/29/09 20:23*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-SS8-0.5'

0904980-06 (Soil)

9/10/09 13:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**83**	0.050	0.010	% Wt	B9I0273	9/15/09 6:02	9/15/09 10:43	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.088	0.088	0.0053	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:30	EPA 8081A	
4,4'-DDE	<0.088	0.088	0.0092	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:30	EPA 8081A	
4,4'-DDT	<0.088	0.088	0.0081	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:30	EPA 8081A	
Aldrin	<0.088	0.088	0.011	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:30	EPA 8081A	
alpha-BHC	<0.088	0.088	0.0081	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:30	EPA 8081A	
alpha-Chlordane	<0.088	0.088	0.0071	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:30	EPA 8081A	
beta-BHC	<0.088	0.088	0.0081	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:30	EPA 8081A	
delta-BHC	<0.088	0.088	0.0063	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:30	EPA 8081A	
Dieldrin	<0.088	0.088	0.0078	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:30	EPA 8081A	
Endosulfan I	<0.088	0.088	0.0099	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:30	EPA 8081A	
Endosulfan II	<0.088	0.088	0.0074	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:30	EPA 8081A	
Endosulfan Sulfate	<0.088	0.088	0.0081	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:30	EPA 8081A	
Endrin	<0.088	0.088	0.0099	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:30	EPA 8081A	
Endrin Aldehyde	<0.088	0.088	0.034	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:30	EPA 8081A	qn
Endrin Ketone	<0.088	0.088	0.011	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:30	EPA 8081A	
gamma-BHC	<0.088	0.088	0.0088	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:30	EPA 8081A	
gamma-Chlordane	<0.088	0.088	0.0060	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:30	EPA 8081A	
Heptachlor	<0.088	0.088	0.019	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:30	EPA 8081A	
Heptachlor Epoxide	<0.088	0.088	0.015	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:30	EPA 8081A	
Methoxychlor	<0.088	0.088	0.0074	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:30	EPA 8081A	
Toxaphene	<1.8	1.8	0.34	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:30	EPA 8081A	
Surr: DBC	*81.5 %*	*Limits: 40-160%*			*B9I0286*	*9/15/09 9:49*	*9/18/09 0:56*	*EPA 8081A*	
Surr: TCMX	*78.0 %*	*Limits: 60-130%*			*B9I0286*	*9/15/09 9:49*	*9/18/09 0:30*	*EPA 8081A*	

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UMP018784

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Minneapolis, MN 55438
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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-SS8-0.5'

0904980-06 (Soil)

9/10/09 13:00

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.048	0.048	0.012	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:47	EPA 8270C	
Alachlor	<0.048	0.048	0.0084	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:47	EPA 8270C	
Atrazine	<0.048	0.048	0.012	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:47	EPA 8270C	
Chlorpyrifos	<0.048	0.048	0.0084	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:47	EPA 8270C	
Cyanazine	<0.048	0.048	0.0096	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:47	EPA 8270C	
Deisopropylatrazine	<0.048	0.048	0.0096	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:47	EPA 8270C	
Desethylatrazine	<0.048	0.048	0.013	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:47	EPA 8270C	
Dimethenamid	<0.048	0.048	0.0072	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:47	EPA 8270C	
EPTC	<0.048	0.048	0.0072	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:47	EPA 8270C	
Ethalfluralin	<0.048	0.048	0.017	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:47	EPA 8270C	
Fonofos	<0.048	0.048	0.0048	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:47	EPA 8270C	
Metolachlor	<0.048	0.048	0.0036	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:47	EPA 8270C	
Metribuzin	<0.048	0.048	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:47	EPA 8270C	
Pendimethalin	<0.048	0.048	0.019	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:47	EPA 8270C	
Phorate	<0.048	0.048	0.0072	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:47	EPA 8270C	
Prometon	<0.048	0.048	0.0072	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:47	EPA 8270C	
Propachlor	<0.048	0.048	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:47	EPA 8270C	
Propazine	<0.048	0.048	0.0084	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:47	EPA 8270C	
Simazine	<0.048	0.048	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:47	EPA 8270C	
Terbufos	<0.048	0.048	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:47	EPA 8270C	
Triallate	<0.048	0.048	0.0060	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:47	EPA 8270C	
Trifluralin	<0.048	0.048	0.017	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 21:47	EPA 8270C	
Surr: Atrazine-d5	*84.5 %*	*Limits: 50-125%*			*B9I0441*	*9/22/09 6:31*	*9/23/09 21:47*	*EPA 8270C*	
Surr: Diazinon-d10	*80.2 %*	*Limits: 35-120%*			*B9I0441*	*9/22/09 6:31*	*9/23/09 21:47*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-SS8-0.5'

0904980-06 (Soil)

9/10/09 13:00

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.060	0.060	0.011	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 20:48	EPA 8270C	
2,4,5-T.P.	<0.060	0.060	0.0084	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 20:48	EPA 8270C	
2,4-D	<0.060	0.060	0.014	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 20:48	EPA 8270C	
2,4-D.B.	<0.060	0.060	0.013	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 20:48	EPA 8270C	
Bentazon	<0.060	0.060	0.011	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 20:48	EPA 8270C	
Dicamba	<0.060	0.060	0.0096	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 20:48	EPA 8270C	
Dinoseb	<0.060	0.060	0.0060	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 20:48	EPA 8270C	
M.C.P.A.	<0.060	0.060	0.017	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 20:48	EPA 8270C	
Pentachlorophenol	<0.060	0.060	0.0084	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 20:48	EPA 8270C	
Picloram	<0.060	0.060	0.013	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 20:48	EPA 8270C	qn
Triclopyr	<0.060	0.060	0.0072	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 20:48	EPA 8270C	
Surr: D.C.A.A.	*67.4 %*	*Limits: 50-125%*			*B9I0428*	*9/21/09 13:29*	*9/29/09 20:48*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-SS10-0.5'

0904980-07 (Soil)

9/10/09 15:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**87**	0.050	0.010	% Wt	B9I0273	9/15/09 6:02	9/15/09 10:43	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.086	0.086	0.0051	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:56	EPA 8081A	
4,4'-DDE	<0.086	0.086	0.0089	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:56	EPA 8081A	
4,4'-DDT	<0.086	0.086	0.0079	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:56	EPA 8081A	
Aldrin	<0.086	0.086	0.011	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:56	EPA 8081A	
alpha-BHC	<0.086	0.086	0.0079	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:56	EPA 8081A	
alpha-Chlordane	<0.086	0.086	0.0068	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:56	EPA 8081A	
beta-BHC	<0.086	0.086	0.0079	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:56	EPA 8081A	
delta-BHC	<0.086	0.086	0.0062	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:56	EPA 8081A	
Dieldrin	<0.086	0.086	0.0075	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:56	EPA 8081A	
Endosulfan I	<0.086	0.086	0.0096	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:56	EPA 8081A	
Endosulfan II	<0.086	0.086	0.0072	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:56	EPA 8081A	
Endosulfan Sulfate	<0.086	0.086	0.0079	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:56	EPA 8081A	
Endrin	<0.086	0.086	0.0096	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:56	EPA 8081A	
Endrin Aldehyde	<0.086	0.086	0.033	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:56	EPA 8081A	qn
Endrin Ketone	<0.086	0.086	0.011	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:56	EPA 8081A	
gamma-BHC	<0.086	0.086	0.0086	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:56	EPA 8081A	
gamma-Chlordane	<0.086	0.086	0.0058	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:56	EPA 8081A	
Heptachlor	<0.086	0.086	0.018	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:56	EPA 8081A	
Heptachlor Epoxide	<0.086	0.086	0.015	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:56	EPA 8081A	
Methoxychlor	<0.086	0.086	0.0072	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:56	EPA 8081A	
Toxaphene	<1.7	1.7	0.33	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 0:56	EPA 8081A	
Surr: DBC	*83.8 %*	*Limits: 40-160%*			*B9I0286*	*9/15/09 9:49*	*9/18/09 1:22*	*EPA 8081A*	
Surr: TCMX	*78.7 %*	*Limits: 60-130%*			*B9I0286*	*9/15/09 9:49*	*9/18/09 0:56*	*EPA 8081A*	

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UMP018787

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-SS10-0.5'

0904980-07 (Soil)

9/10/09 15:00

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.046	0.046	0.012	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:13	EPA 8270C	
Alachlor	<0.046	0.046	0.0081	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:13	EPA 8270C	
Atrazine	<0.046	0.046	0.012	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:13	EPA 8270C	
Chlorpyrifos	<0.046	0.046	0.0081	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:13	EPA 8270C	
Cyanazine	<0.046	0.046	0.0092	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:13	EPA 8270C	
Deisopropylatrazine	<0.046	0.046	0.0092	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:13	EPA 8270C	
Desethylatrazine	<0.046	0.046	0.013	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:13	EPA 8270C	
Dimethenamid	<0.046	0.046	0.0069	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:13	EPA 8270C	
EPTC	<0.046	0.046	0.0069	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:13	EPA 8270C	
Ethalfluralin	<0.046	0.046	0.016	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:13	EPA 8270C	
Fonofos	<0.046	0.046	0.0046	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:13	EPA 8270C	
Metolachlor	<0.046	0.046	0.0035	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:13	EPA 8270C	
Metribuzin	<0.046	0.046	0.010	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:13	EPA 8270C	
Pendimethalin	<0.046	0.046	0.018	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:13	EPA 8270C	
Phorate	<0.046	0.046	0.0069	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:13	EPA 8270C	
Prometon	<0.046	0.046	0.0069	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:13	EPA 8270C	
Propachlor	<0.046	0.046	0.010	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:13	EPA 8270C	
Propazine	<0.046	0.046	0.0081	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:13	EPA 8270C	
Simazine	<0.046	0.046	0.010	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:13	EPA 8270C	
Terbufos	<0.046	0.046	0.010	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:13	EPA 8270C	
Triallate	<0.046	0.046	0.0058	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:13	EPA 8270C	
Trifluralin	<0.046	0.046	0.016	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:13	EPA 8270C	
Surr: Atrazine-d5	*87.9 %*	*Limits: 50-125%*			*B9I0441*	*9/22/09 6:31*	*9/23/09 22:13*	*EPA 8270C*	
Surr: Diazinon-d10	*77.1 %*	*Limits: 35-120%*			*B9I0441*	*9/22/09 6:31*	*9/23/09 22:13*	*EPA 8270C*	

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Minneapolis, MN 55438
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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-SS10-0.5'

0904980-07 (Soil)

9/10/09 15:00

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.056	0.056	0.010	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 21:13	EPA 8270C	
2,4,5-T.P.	<0.056	0.056	0.0079	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 21:13	EPA 8270C	
2,4-D	<0.056	0.056	0.014	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 21:13	EPA 8270C	
2,4-D.B.	<0.056	0.056	0.012	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 21:13	EPA 8270C	
Bentazon	<0.056	0.056	0.010	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 21:13	EPA 8270C	
Dicamba	<0.056	0.056	0.0090	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 21:13	EPA 8270C	
Dinoseb	<0.056	0.056	0.0056	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 21:13	EPA 8270C	
M.C.P.A.	<0.056	0.056	0.016	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 21:13	EPA 8270C	
Pentachlorophenol	<0.056	0.056	0.0079	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 21:13	EPA 8270C	
Picloram	<0.056	0.056	0.012	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 21:13	EPA 8270C	qn
Triclopyr	<0.056	0.056	0.0068	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 21:13	EPA 8270C	
Surr: D.C.A.A.	*72.2 %*	*Limits: 50-125%*			*B9I0428*	*9/21/09 13:29*	*9/29/09 21:13*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-M1

0904980-08 (Soil)

9/10/09 0:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**87**	0.050	0.010	% Wt	B9I0273	9/15/09 6:02	9/15/09 10:43	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.082	0.082	0.0049	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:22	EPA 8081A	
4,4'-DDE	<0.082	0.082	0.0085	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:22	EPA 8081A	
4,4'-DDT	<0.082	0.082	0.0075	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:22	EPA 8081A	
Aldrin	<0.082	0.082	0.010	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:22	EPA 8081A	
alpha-BHC	<0.082	0.082	0.0075	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:22	EPA 8081A	
alpha-Chlordane	<0.082	0.082	0.0065	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:22	EPA 8081A	
beta-BHC	<0.082	0.082	0.0075	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:22	EPA 8081A	
delta-BHC	<0.082	0.082	0.0059	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:22	EPA 8081A	
Dieldrin	<0.082	0.082	0.0072	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:22	EPA 8081A	
Endosulfan I	<0.082	0.082	0.0091	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:22	EPA 8081A	
Endosulfan II	<0.082	0.082	0.0069	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:22	EPA 8081A	
Endosulfan Sulfate	<0.082	0.082	0.0075	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:22	EPA 8081A	
Endrin	<0.082	0.082	0.0091	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:22	EPA 8081A	
Endrin Aldehyde	<0.082	0.082	0.031	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:22	EPA 8081A	qn
Endrin Ketone	<0.082	0.082	0.010	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:22	EPA 8081A	
gamma-BHC	<0.082	0.082	0.0082	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:22	EPA 8081A	
gamma-Chlordane	<0.082	0.082	0.0056	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:22	EPA 8081A	
Heptachlor	<0.082	0.082	0.018	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:22	EPA 8081A	
Heptachlor Epoxide	<0.082	0.082	0.014	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:22	EPA 8081A	
Methoxychlor	<0.082	0.082	0.0069	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:22	EPA 8081A	
Toxaphene	<1.6	1.6	0.31	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:22	EPA 8081A	
Surr: DBC	*87.0 %*	*Limits: 40-160%*			*B9I0286*	*9/15/09 9:49*	*9/18/09 1:48*	*EPA 8081A*	
Surr: TCMX	*81.2 %*	*Limits: 60-130%*			*B9I0286*	*9/15/09 9:49*	*9/18/09 1:22*	*EPA 8081A*	

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UMP018790

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11001 Hampshire Ave. S.
Minneapolis, MN 55438
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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-M1

0904980-08 (Soil)

9/10/09 0:00

Neutral Extractable Pesticides (MDA List 1)

Sample Note(s): sur

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.046	0.046	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:38	EPA 8270C	
Alachlor	<0.046	0.046	0.0080	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:38	EPA 8270C	
Atrazine	<0.046	0.046	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:38	EPA 8270C	
Chlorpyrifos	<0.046	0.046	0.0080	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:38	EPA 8270C	
Cyanazine	<0.046	0.046	0.0092	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:38	EPA 8270C	
Deisopropylatrazine	<0.046	0.046	0.0092	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:38	EPA 8270C	
Desethylatrazine	<0.046	0.046	0.013	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:38	EPA 8270C	
Dimethenamid	<0.046	0.046	0.0069	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:38	EPA 8270C	
EPTC	<0.046	0.046	0.0069	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:38	EPA 8270C	
Ethalfluralin	<0.046	0.046	0.016	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:38	EPA 8270C	
Fonofos	<0.046	0.046	0.0046	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:38	EPA 8270C	
Metolachlor	<0.046	0.046	0.0034	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:38	EPA 8270C	
Metribuzin	<0.046	0.046	0.010	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:38	EPA 8270C	
Pendimethalin	<0.046	0.046	0.018	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:38	EPA 8270C	
Phorate	<0.046	0.046	0.0069	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:38	EPA 8270C	
Prometon	<0.046	0.046	0.0069	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:38	EPA 8270C	
Propachlor	<0.046	0.046	0.010	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:38	EPA 8270C	
Propazine	<0.046	0.046	0.0080	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:38	EPA 8270C	
Simazine	<0.046	0.046	0.010	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:38	EPA 8270C	
Terbufos	<0.046	0.046	0.010	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:38	EPA 8270C	
Triallate	<0.046	0.046	0.0057	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:38	EPA 8270C	
Trifluralin	<0.046	0.046	0.016	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 22:38	EPA 8270C	
Surr: Atrazine-d5	*41.4 %*	*Limits: 50-125%*			*B9I0441*	*9/22/09 6:31*	*9/23/09 22:38*	*EPA 8270C*	*vn*
Surr: Diazinon-d10	*46.2 %*	*Limits: 35-120%*			*B9I0441*	*9/22/09 6:31*	*9/23/09 22:38*	*EPA 8270C*	

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Minneapolis, MN 55438
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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-M1

0904980-08 (Soil)

9/10/09 0:00

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.057	0.057	0.010	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 21:38	EPA 8270C	
2,4,5-T.P.	<0.057	0.057	0.0080	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 21:38	EPA 8270C	
2,4-D	<0.057	0.057	0.014	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 21:38	EPA 8270C	
2,4-D.B.	<0.057	0.057	0.013	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 21:38	EPA 8270C	
Bentazon	<0.057	0.057	0.010	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 21:38	EPA 8270C	
Dicamba	<0.057	0.057	0.0092	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 21:38	EPA 8270C	
Dinoseb	<0.057	0.057	0.0057	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 21:38	EPA 8270C	
M.C.P.A.	<0.057	0.057	0.016	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 21:38	EPA 8270C	
Pentachlorophenol	<0.057	0.057	0.0080	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 21:38	EPA 8270C	
Picloram	<0.057	0.057	0.013	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 21:38	EPA 8270C	qn
Triclopyr	<0.057	0.057	0.0069	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 21:38	EPA 8270C	
Surr: D.C.A.A.	*66.2 %*	*Limits: 50-125%*			*B9I0428*	*9/21/09 13:29*	*9/29/09 21:38*	*EPA 8270C*	

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UMP018792

BRAUN INTERTEC

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Minneapolis, MN 55438
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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

M2

0904980-09 (Soil)

9/10/09 0:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**99**	0.050	0.010	% Wt	B9I0273	9/15/09 6:02	9/15/09 10:43	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.072	0.072	0.0043	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:48	EPA 8081A	
4,4'-DDE	<0.072	0.072	0.0075	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:48	EPA 8081A	
4,4'-DDT	<0.072	0.072	0.0066	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:48	EPA 8081A	
Aldrin	<0.072	0.072	0.0092	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:48	EPA 8081A	
alpha-BHC	<0.072	0.072	0.0066	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:48	EPA 8081A	
alpha-Chlordane	<0.072	0.072	0.0058	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:48	EPA 8081A	
beta-BHC	<0.072	0.072	0.0066	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:48	EPA 8081A	
delta-BHC	<0.072	0.072	0.0052	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:48	EPA 8081A	
Dieldrin	<0.072	0.072	0.0063	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:48	EPA 8081A	
Endosulfan I	<0.072	0.072	0.0081	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:48	EPA 8081A	
Endosulfan II	<0.072	0.072	0.0060	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:48	EPA 8081A	
Endosulfan Sulfate	<0.072	0.072	0.0066	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:48	EPA 8081A	
Endrin	<0.072	0.072	0.0081	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:48	EPA 8081A	
Endrin Aldehyde	<0.072	0.072	0.028	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:48	EPA 8081A	qn
Endrin Ketone	<0.072	0.072	0.0089	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:48	EPA 8081A	
gamma-BHC	<0.072	0.072	0.0072	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:48	EPA 8081A	
gamma-Chlordane	<0.072	0.072	0.0049	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:48	EPA 8081A	
Heptachlor	<0.072	0.072	0.016	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:48	EPA 8081A	
Heptachlor Epoxide	<0.072	0.072	0.012	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:48	EPA 8081A	
Methoxychlor	<0.072	0.072	0.0060	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 2:14	EPA 8081A	
Toxaphene	<1.4	1.4	0.28	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 1:48	EPA 8081A	
Surr: DBC	*72.4 %*	*Limits: 40-160%*			*B9I0286*	*9/15/09 9:49*	*9/18/09 1:48*	*EPA 8081A*	
Surr: TCMX	*73.6 %*	*Limits: 60-130%*			*B9I0286*	*9/15/09 9:49*	*9/18/09 1:48*	*EPA 8081A*	

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11001 Hampshire Ave. S.
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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

M2

0904980-09 (Soil)

9/10/09 0:00

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.039	0.039	0.0099	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:04	EPA 8270C	
Alachlor	<0.039	0.039	0.0069	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:04	EPA 8270C	
Atrazine	<0.039	0.039	0.0099	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:04	EPA 8270C	
Chlorpyrifos	<0.039	0.039	0.0069	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:04	EPA 8270C	
Cyanazine	<0.039	0.039	0.0079	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:04	EPA 8270C	
Deisopropylatrazine	<0.039	0.039	0.0079	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:04	EPA 8270C	
Desethylatrazine	<0.039	0.039	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:04	EPA 8270C	
Dimethenamid	<0.039	0.039	0.0059	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:04	EPA 8270C	
EPTC	<0.039	0.039	0.0059	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:04	EPA 8270C	
Ethalfluralin	<0.039	0.039	0.014	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:04	EPA 8270C	
Fonofos	<0.039	0.039	0.0039	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:04	EPA 8270C	
Metolachlor	<0.039	0.039	0.0030	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:04	EPA 8270C	
Metribuzin	<0.039	0.039	0.0089	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:04	EPA 8270C	
Pendimethalin	<0.039	0.039	0.016	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:04	EPA 8270C	
Phorate	<0.039	0.039	0.0059	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:04	EPA 8270C	
Prometon	<0.039	0.039	0.0059	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:04	EPA 8270C	
Propachlor	<0.039	0.039	0.0089	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:04	EPA 8270C	
Propazine	<0.039	0.039	0.0069	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:04	EPA 8270C	
Simazine	<0.039	0.039	0.0089	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:04	EPA 8270C	
Terbufos	<0.039	0.039	0.0089	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:04	EPA 8270C	
Triallate	<0.039	0.039	0.0049	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:04	EPA 8270C	
Trifluralin	<0.039	0.039	0.014	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:04	EPA 8270C	
Surr: Atrazine-d5	*83.0 %*	*Limits: 50-125%*			*B9I0441*	*9/22/09 6:31*	*9/23/09 23:04*	*EPA 8270C*	
Surr: Diazinon-d10	*82.9 %*	*Limits: 35-120%*			*B9I0441*	*9/22/09 6:31*	*9/23/09 23:04*	*EPA 8270C*	

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UMP018794

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Minneapolis, MN 55438
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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

M2

0904980-09 (Soil)

9/10/09 0:00

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.049	0.049	0.0089	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:03	EPA 8270C	
2,4,5-T.P.	<0.049	0.049	0.0069	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:03	EPA 8270C	
2,4-D	<0.049	0.049	0.012	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:03	EPA 8270C	
2,4-D.B.	<0.049	0.049	0.011	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:03	EPA 8270C	
Bentazon	<0.049	0.049	0.0089	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:03	EPA 8270C	
Dicamba	<0.049	0.049	0.0079	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:03	EPA 8270C	
Dinoseb	<0.049	0.049	0.0049	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:03	EPA 8270C	
M.C.P.A.	<0.049	0.049	0.014	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:03	EPA 8270C	
Pentachlorophenol	<0.049	0.049	0.0069	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:03	EPA 8270C	
Picloram	<0.049	0.049	0.011	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:03	EPA 8270C	qn
Triclopyr	<0.049	0.049	0.0059	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:03	EPA 8270C	
Surr: D.C.A.A.	*56.8 %*	*Limits: 50-125%*			*B9I0428*	*9/21/09 13:29*	*9/29/09 22:03*	*EPA 8270C*	

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Minneapolis, MN 55438
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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC4-TT9-6'

0904980-10 (Soil)

9/10/09 14:30

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**99**	0.050	0.010	% Wt	B9I0273	9/15/09 6:02	9/15/09 10:43	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.075	0.075	0.0045	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 2:14	EPA 8081A	
4,4'-DDE	<0.075	0.075	0.0078	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 2:14	EPA 8081A	
4,4'-DDT	<0.075	0.075	0.0069	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 2:14	EPA 8081A	
Aldrin	<0.075	0.075	0.0095	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 2:14	EPA 8081A	
alpha-BHC	<0.075	0.075	0.0069	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 2:14	EPA 8081A	
alpha-Chlordane	<0.075	0.075	0.0060	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 2:14	EPA 8081A	
beta-BHC	<0.075	0.075	0.0069	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 2:14	EPA 8081A	
delta-BHC	<0.075	0.075	0.0054	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 2:14	EPA 8081A	
Dieldrin	<0.075	0.075	0.0066	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 2:14	EPA 8081A	
Endosulfan I	<0.075	0.075	0.0083	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 2:14	EPA 8081A	
Endosulfan II	<0.075	0.075	0.0063	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 2:14	EPA 8081A	
Endosulfan Sulfate	<0.075	0.075	0.0069	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 2:14	EPA 8081A	
Endrin	<0.075	0.075	0.0083	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 2:14	EPA 8081A	
Endrin Aldehyde	<0.075	0.075	0.029	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 2:14	EPA 8081A	qn
Endrin Ketone	<0.075	0.075	0.0092	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 2:14	EPA 8081A	
gamma-BHC	<0.075	0.075	0.0075	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 2:14	EPA 8081A	
gamma-Chlordane	<0.075	0.075	0.0051	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 2:14	EPA 8081A	
Heptachlor	<0.075	0.075	0.016	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 2:14	EPA 8081A	
Heptachlor Epoxide	<0.075	0.075	0.013	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 2:14	EPA 8081A	
Methoxychlor	<0.075	0.075	0.0063	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 2:40	EPA 8081A	
Toxaphene	<1.5	1.5	0.29	mg/kg dry	B9I0286	9/15/09 9:49	9/18/09 2:14	EPA 8081A	
Surr: DBC	*75.5 %*	*Limits: 40-160%*			*B9I0286*	*9/15/09 9:49*	*9/18/09 2:40*	*EPA 8081A*	
Surr: TCMX	*74.9 %*	*Limits: 60-130%*			*B9I0286*	*9/15/09 9:49*	*9/18/09 2:14*	*EPA 8081A*	

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UMP018796

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC4-TT9-6'

0904980-10 (Soil)

9/10/09 14:30

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.040	0.040	0.010	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:30	EPA 8270C	
Alachlor	<0.040	0.040	0.0071	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:30	EPA 8270C	
Atrazine	<0.040	0.040	0.010	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:30	EPA 8270C	
Chlorpyrifos	<0.040	0.040	0.0071	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:30	EPA 8270C	
Cyanazine	<0.040	0.040	0.0081	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:30	EPA 8270C	
Deisopropylatrazine	<0.040	0.040	0.0081	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:30	EPA 8270C	
Desethylatrazine	<0.040	0.040	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:30	EPA 8270C	
Dimethenamid	<0.040	0.040	0.0060	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:30	EPA 8270C	
EPTC	<0.040	0.040	0.0060	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:30	EPA 8270C	
Ethalfluralin	<0.040	0.040	0.014	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:30	EPA 8270C	
Fonofos	<0.040	0.040	0.0040	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:30	EPA 8270C	
Metolachlor	<0.040	0.040	0.0030	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:30	EPA 8270C	
Metribuzin	<0.040	0.040	0.0091	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:30	EPA 8270C	
Pendimethalin	<0.040	0.040	0.016	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:30	EPA 8270C	
Phorate	<0.040	0.040	0.0060	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:30	EPA 8270C	
Prometon	<0.040	0.040	0.0060	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:30	EPA 8270C	
Propachlor	<0.040	0.040	0.0091	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:30	EPA 8270C	
Propazine	<0.040	0.040	0.0071	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:30	EPA 8270C	
Simazine	<0.040	0.040	0.0091	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:30	EPA 8270C	
Terbufos	<0.040	0.040	0.0091	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:30	EPA 8270C	
Triallate	<0.040	0.040	0.0050	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:30	EPA 8270C	
Trifluralin	<0.040	0.040	0.014	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:30	EPA 8270C	
Surr: Atrazine-d5	*91.2 %*	*Limits: 50-125%*			*B9I0441*	*9/22/09 6:31*	*9/23/09 23:30*	*EPA 8270C*	
Surr: Diazinon-d10	*95.8 %*	*Limits: 35-120%*			*B9I0441*	*9/22/09 6:31*	*9/23/09 23:30*	*EPA 8270C*	

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UMP018797

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC4-TT9-6'

0904980-10 (Soil)

9/10/09 14:30

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.050	0.050	0.0091	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:27	EPA 8270C	
2,4,5-T.P.	<0.050	0.050	0.0071	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:27	EPA 8270C	
2,4-D	<0.050	0.050	0.012	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:27	EPA 8270C	
2,4-D.B.	<0.050	0.050	0.011	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:27	EPA 8270C	
Bentazon	<0.050	0.050	0.0091	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:27	EPA 8270C	
Dicamba	<0.050	0.050	0.0081	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:27	EPA 8270C	
Dinoseb	<0.050	0.050	0.0050	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:27	EPA 8270C	
M.C.P.A.	<0.050	0.050	0.014	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:27	EPA 8270C	
Pentachlorophenol	<0.050	0.050	0.0071	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:27	EPA 8270C	
Picloram	<0.050	0.050	0.011	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:27	EPA 8270C	qn
Triclopyr	<0.050	0.050	0.0060	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:27	EPA 8270C	
Surr: D.C.A.A.	*57.6 %*	*Limits: 50-125%*			*B9I0428*	*9/21/09 13:29*	*9/29/09 22:27*	*EPA 8270C*	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

FB-2

0904980-11 (Water)

9/10/09 17:30

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.017	0.26	0.017	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:00	EPA 8081A	
4,4'-DDE	<0.017	0.26	0.017	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:00	EPA 8081A	go
4,4'-DDT	<0.021	0.26	0.021	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:00	EPA 8081A	go
Aldrin	<0.019	0.26	0.019	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:00	EPA 8081A	
alpha-BHC	<0.022	0.26	0.022	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:00	EPA 8081A	
alpha-Chlordane	<0.017	0.26	0.017	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:00	EPA 8081A	
beta-BHC	<0.017	0.26	0.017	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:00	EPA 8081A	
delta-BHC	<0.015	0.26	0.015	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:00	EPA 8081A	
Dieldrin	<0.025	0.26	0.025	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:00	EPA 8081A	
Endosulfan I	<0.022	0.26	0.022	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:00	EPA 8081A	
Endosulfan II	<0.020	0.26	0.020	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:00	EPA 8081A	
Endosulfan Sulfate	<0.020	0.26	0.020	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:00	EPA 8081A	
Endrin	<0.021	0.26	0.021	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:00	EPA 8081A	
Endrin Aldehyde	<0.042	0.26	0.042	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:00	EPA 8081A	
Endrin Ketone	<0.020	0.26	0.020	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:00	EPA 8081A	
gamma-BHC	<0.021	0.26	0.021	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:00	EPA 8081A	
gamma-Chlordane	<0.044	0.26	0.044	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:00	EPA 8081A	
Heptachlor	<0.019	0.26	0.019	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:00	EPA 8081A	
Heptachlor Epoxide	<0.040	0.26	0.040	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:00	EPA 8081A	
Methoxychlor	<0.028	0.26	0.028	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:00	EPA 8081A	
Toxaphene	<1.1	5.3	1.1	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:00	EPA 8081A	
Surr: DBC	*80.9 %*	*Limits: 40-130%*			*B9I0270*	*9/14/09 17:41*	*9/17/09 14:00*	*EPA 8081A*	
Surr: TCMX	*80.2 %*	*Limits: 40-120%*			*B9I0270*	*9/14/09 17:41*	*9/17/09 14:00*	*EPA 8081A*	

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.26	0.52	0.26	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:12	EPA 8270C	
Alachlor	<0.19	0.52	0.19	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:12	EPA 8270C	
Atrazine	<0.24	0.52	0.24	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:12	EPA 8270C	
Chlorpyrifos	<0.35	0.52	0.35	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:12	EPA 8270C	
Cyanazine	<0.50	0.52	0.50	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:12	EPA 8270C	
Deisopropylatrazine	<0.26	0.52	0.26	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:12	EPA 8270C	
Desethylatrazine	<0.30	0.52	0.30	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:12	EPA 8270C	
Dimethenamid	<0.24	0.52	0.24	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:12	EPA 8270C	
EPTC	<0.22	0.52	0.22	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:12	EPA 8270C	
Ethalfluralin	<0.48	0.52	0.48	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:12	EPA 8270C	
Fonofos	<0.30	0.52	0.30	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:12	EPA 8270C	
Metolachlor	<0.28	0.52	0.28	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:12	EPA 8270C	
Metribuzin	<0.36	0.52	0.36	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:12	EPA 8270C	
Pendimethalin	<0.26	0.52	0.26	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:12	EPA 8270C	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

FB-2

0904980-11 (Water)

9/10/09 17:30

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Phorate	<0.60	1.0	0.60	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:12	EPA 8270C	
Prometon	<0.30	0.52	0.30	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:12	EPA 8270C	
Propachlor	<0.14	0.52	0.14	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:12	EPA 8270C	
Propazine	<0.21	0.52	0.21	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:12	EPA 8270C	
Simazine	<0.33	0.52	0.33	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:12	EPA 8270C	
Terbufos	<0.56	1.0	0.56	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:12	EPA 8270C	
Triallate	<0.35	0.52	0.35	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:12	EPA 8270C	
Trifluralin	<0.22	0.52	0.22	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:12	EPA 8270C	
Surr: Atrazine-d5	*90.4 %*	*Limits: 50-120%*			*B9I0274*	*9/15/09 6:17*	*9/16/09 15:12*	*EPA 8270C*	
Surr: Diazinon-d10	*85.6 %*	*Limits: 50-120%*			*B9I0274*	*9/15/09 6:17*	*9/16/09 15:12*	*EPA 8270C*	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.50	0.50	0.31	ug/L	B9I0295	9/15/09 12:53	9/18/09 10:55	EPA 8270C	
2,4,5-T.P.	<0.50	0.50	0.28	ug/L	B9I0295	9/15/09 12:53	9/18/09 10:55	EPA 8270C	
2,4-D	<0.50	0.50	0.26	ug/L	B9I0295	9/15/09 12:53	9/18/09 10:55	EPA 8270C	
2,4-D.B.	<0.50	0.50	0.15	ug/L	B9I0295	9/15/09 12:53	9/18/09 10:55	EPA 8270C	qn
Bentazon	<0.50	0.50	0.22	ug/L	B9I0295	9/15/09 12:53	9/18/09 10:55	EPA 8270C	qn
Dicamba	<0.50	0.50	0.38	ug/L	B9I0295	9/15/09 12:53	9/18/09 10:55	EPA 8270C	
Dinoseb	<0.50	0.50	0.34	ug/L	B9I0295	9/15/09 12:53	9/18/09 10:55	EPA 8270C	
M.C.P.A.	<0.30	0.30	0.29	ug/L	B9I0295	9/15/09 12:53	9/18/09 10:55	EPA 8270C	
Pentachlorophenol	<0.50	0.50	0.39	ug/L	B9I0295	9/15/09 12:53	9/18/09 10:55	EPA 8270C	go, qn
Picloram	<0.50	0.50	0.25	ug/L	B9I0295	9/15/09 12:53	9/18/09 10:55	EPA 8270C	
Triclopyr	<0.50	0.50	0.41	ug/L	B9I0295	9/15/09 12:53	9/18/09 10:55	EPA 8270C	qn
Surr: D.C.A.A.	*69.8 %*	*Limits: 65-130%*			*B9I0295*	*9/15/09 12:53*	*9/18/09 10:55*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Classical Chemistry Parameters - Quality Control

Batch B9I0273 - % Solids

Method Blank (B9I0273-BLK1)

Prepared & Analyzed: 09/15/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	<0.050	0.050	0.010	% Wt	NA	NA	NA	NA	NA	NA	

Duplicate (B9I0273-DUP1)

Source: 0904979-03 Prepared & Analyzed: 09/15/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	94.7	0.050	0.010	% Wt	NA	94.0	NA	NA	0.778	20	

Duplicate (B9I0273-DUP2)

Source: 0904980-06 Prepared & Analyzed: 09/15/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	83.9	0.050	0.010	% Wt	NA	82.9	NA	NA	1.13	20	

Standard Reference Material (B9I0273-SRM1)

Prepared & Analyzed: 09/15/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	87.7			% Wt	91.3	NA	96.1	90-110	NA	NA	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0270 - EPA 3510C

Method Blank (B9I0270-BLK1)

Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
4,4'-DDE	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
4,4'-DDT	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
Aldrin	<0.018	0.25	0.018	ug/L	NA	NA	NA	NA	NA	NA	
alpha-BHC	<0.021	0.25	0.021	ug/L	NA	NA	NA	NA	NA	NA	
alpha-Chlordane	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
beta-BHC	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
delta-BHC	<0.014	0.25	0.014	ug/L	NA	NA	NA	NA	NA	NA	
Dieldrin	<0.024	0.25	0.024	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan I	<0.021	0.25	0.021	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan II	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan Sulfate	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
Endrin	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
Endrin Aldehyde	<0.040	0.25	0.040	ug/L	NA	NA	NA	NA	NA	NA	
Endrin Ketone	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
gamma-BHC	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
gamma-Chlordane	<0.042	0.25	0.042	ug/L	NA	NA	NA	NA	NA	NA	
Heptachlor	<0.018	0.25	0.018	ug/L	NA	NA	NA	NA	NA	NA	
Heptachlor Epoxide	<0.038	0.25	0.038	ug/L	NA	NA	NA	NA	NA	NA	
Methoxychlor	<0.026	0.25	0.026	ug/L	NA	NA	NA	NA	NA	NA	
Toxaphene	<1.0	5.0	1.0	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: DBC	*2.41*			ug/L	*2.50*	*NA*	*96.2*	*40-130*			
Surrogate: TCMX	*1.77*			ug/L	*2.50*	*NA*	*71.0*	*40-120*			

Laboratory Control Sample (B9I0270-BS2)

Prepared: 09/14/09 Analyzed: 09/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.20	0.25	0.016	ug/L	2.50	NA	88.0	80-120	NA	NA	
4,4'-DDE	1.95	0.25	0.016	ug/L	2.50	NA	78.0	80-120	NA	NA	
4,4'-DDT	1.86	0.25	0.020	ug/L	2.50	NA	74.5	80-120	NA	NA	
Aldrin	1.84	0.25	0.018	ug/L	2.50	NA	73.7	60-110	NA	NA	
alpha-BHC	2.22	0.25	0.021	ug/L	2.50	NA	88.6	70-120	NA	NA	
alpha-Chlordane	2.11	0.25	0.016	ug/L	2.50	NA	84.2	80-120	NA	NA	
beta-BHC	2.48	0.25	0.016	ug/L	2.50	NA	99.2	80-120	NA	NA	
delta-BHC	2.45	0.25	0.014	ug/L	2.50	NA	98.1	80-120	NA	NA	
Dieldrin	2.29	0.25	0.024	ug/L	2.50	NA	91.5	80-120	NA	NA	
Endosulfan I	2.25	0.25	0.021	ug/L	2.50	NA	89.8	80-120	NA	NA	
Endosulfan II	2.28	0.25	0.019	ug/L	2.50	NA	91.3	80-120	NA	NA	
Endosulfan Sulfate	2.35	0.25	0.019	ug/L	2.50	NA	94.2	80-120	NA	NA	
Endrin	2.33	0.25	0.020	ug/L	2.50	NA	93.0	80-120	NA	NA	
Endrin Aldehyde	2.42	0.25	0.040	ug/L	2.50	NA	96.9	80-120	NA	NA	
Endrin Ketone	2.63	0.25	0.019	ug/L	2.50	NA	105	80-120	NA	NA	
gamma-BHC	2.38	0.25	0.020	ug/L	2.50	NA	95.1	80-120	NA	NA	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0270 - EPA 3510C

Laboratory Control Sample (B9I0270-BS2)

Prepared: 09/14/09 Analyzed: 09/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
gamma-Chlordane	2.18	0.25	0.042	ug/L	2.50	NA	87.2	80-120	NA	NA	
Heptachlor	1.82	0.25	0.018	ug/L	2.50	NA	73.0	60-110	NA	NA	
Heptachlor Epoxide	2.28	0.25	0.038	ug/L	2.50	NA	91.1	80-120	NA	NA	
Methoxychlor	2.08	0.25	0.026	ug/L	2.50	NA	83.3	80-120	NA	NA	
Surrogate: DBC	*2.08*			ug/L	*2.50*	*NA*	*83.1*	*40-130*			
Surrogate: TCMX	*1.64*			ug/L	*2.50*	*NA*	*65.7*	*40-120*			

Laboratory Control Sample Duplicate (B9I0270-BSD2)

Prepared: 09/14/09 Analyzed: 09/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.27	0.25	0.016	ug/L	2.50	NA	90.9	80-120	3.18	25	
4,4'-DDE	2.01	0.25	0.016	ug/L	2.50	NA	80.5	80-120	3.15	25	
4,4'-DDT	1.92	0.25	0.020	ug/L	2.50	NA	76.8	80-120	3.07	25	
Aldrin	1.93	0.25	0.018	ug/L	2.50	NA	77.4	60-110	4.90	25	
alpha-BHC	2.20	0.25	0.021	ug/L	2.50	NA	87.9	70-120	0.843	25	
alpha-Chlordane	2.10	0.25	0.016	ug/L	2.50	NA	84.0	80-120	0.296	25	
beta-BHC	2.43	0.25	0.016	ug/L	2.50	NA	97.1	80-120	2.10	25	
delta-BHC	2.42	0.25	0.014	ug/L	2.50	NA	96.8	80-120	1.27	25	
Dieldrin	2.29	0.25	0.024	ug/L	2.50	NA	91.8	80-120	0.241	25	
Endosulfan I	2.22	0.25	0.021	ug/L	2.50	NA	88.9	80-120	1.08	25	
Endosulfan II	2.27	0.25	0.019	ug/L	2.50	NA	90.7	80-120	0.581	25	
Endosulfan Sulfate	2.30	0.25	0.019	ug/L	2.50	NA	92.0	80-120	2.26	25	
Endrin	2.32	0.25	0.020	ug/L	2.50	NA	92.6	80-120	0.394	25	
Endrin Aldehyde	2.39	0.25	0.040	ug/L	2.50	NA	95.6	80-120	1.36	25	
Endrin Ketone	2.54	0.25	0.019	ug/L	2.50	NA	102	80-120	3.21	25	
gamma-BHC	2.32	0.25	0.020	ug/L	2.50	NA	93.0	80-120	2.23	25	
gamma-Chlordane	2.23	0.25	0.042	ug/L	2.50	NA	89.3	80-120	2.34	25	
Heptachlor	1.87	0.25	0.018	ug/L	2.50	NA	74.8	60-110	2.54	25	
Heptachlor Epoxide	2.24	0.25	0.038	ug/L	2.50	NA	89.7	80-120	1.49	25	
Methoxychlor	2.11	0.25	0.026	ug/L	2.50	NA	84.5	80-120	1.52	25	
Surrogate: DBC	*2.21*			ug/L	*2.50*	*NA*	*88.3*	*40-130*			
Surrogate: TCMX	*1.71*			ug/L	*2.50*	*NA*	*68.3*	*40-120*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0270 - EPA 3510C

Matrix Spike (B9I0270-MS1)

Source: 0905025-01 Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.25	0.27	0.017	ug/L	2.66	ND	84.5	50-130	NA	NA	
4,4'-DDE	1.88	0.27	0.017	ug/L	2.66	ND	70.7	50-130	NA	NA	
4,4'-DDT	1.76	0.27	0.021	ug/L	2.66	ND	66.1	50-130	NA	NA	
Aldrin	2.03	0.27	0.019	ug/L	2.66	ND	76.3	50-130	NA	NA	
alpha-Chlordane	2.31	0.27	0.017	ug/L	2.66	ND	86.7	50-130	NA	NA	
beta-BHC	2.68	0.27	0.017	ug/L	2.66	ND	101	50-130	NA	NA	
delta-BHC	2.73	0.27	0.015	ug/L	2.66	ND	103	50-130	NA	NA	
Dieldrin	2.49	0.27	0.025	ug/L	2.66	ND	93.5	50-130	NA	NA	
Endosulfan I	2.46	0.27	0.022	ug/L	2.66	ND	92.5	50-130	NA	NA	
Endosulfan II	2.43	0.27	0.020	ug/L	2.66	ND	91.5	50-130	NA	NA	
Endosulfan Sulfate	2.47	0.27	0.021	ug/L	2.66	ND	92.7	50-130	NA	NA	
Endrin	2.34	0.27	0.021	ug/L	2.66	ND	88.0	50-130	NA	NA	
Endrin Aldehyde	2.60	0.27	0.043	ug/L	2.66	ND	97.8	50-130	NA	NA	
Endrin Ketone	2.52	0.27	0.020	ug/L	2.66	ND	94.9	50-130	NA	NA	
gamma-BHC	2.56	0.27	0.021	ug/L	2.66	ND	96.3	50-130	NA	NA	
gamma-Chlordane	2.33	0.27	0.045	ug/L	2.66	ND	87.7	50-130	NA	NA	
Heptachlor	2.06	0.27	0.019	ug/L	2.66	ND	77.6	50-130	NA	NA	
Heptachlor Epoxide	2.48	0.27	0.041	ug/L	2.66	ND	93.1	50-130	NA	NA	
Methoxychlor	2.15	0.27	0.028	ug/L	2.66	ND	80.9	50-130	NA	NA	
Surrogate: DBC	*2.12*			ug/L	*2.66*	*NA*	*79.8*	*40-130*			
Surrogate: TCMX	*2.17*			ug/L	*2.66*	*NA*	*81.5*	*40-120*			

Matrix Spike Duplicate (B9I0270-MSD1)

Source: 0905025-01 Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.44	0.27	0.017	ug/L	2.73	ND	89.3	50-130	8.29	25	
4,4'-DDE	2.16	0.27	0.017	ug/L	2.73	ND	79.1	50-130	13.9	25	
4,4'-DDT	2.00	0.27	0.021	ug/L	2.73	ND	73.2	50-130	12.9	25	
Aldrin	2.22	0.27	0.019	ug/L	2.73	ND	81.4	50-130	9.24	25	
alpha-BHC	2.52	0.27	0.023	ug/L	2.73	ND	92.2	50-130	0.289	25	
alpha-Chlordane	2.50	0.27	0.017	ug/L	2.73	ND	91.5	50-130	8.06	25	
beta-BHC	2.71	0.27	0.017	ug/L	2.73	ND	99.2	50-130	0.923	25	
delta-BHC	2.74	0.27	0.015	ug/L	2.73	ND	100	50-130	0.220	25	
Dieldrin	2.62	0.27	0.026	ug/L	2.73	ND	95.9	50-130	5.19	25	
Endosulfan I	2.58	0.27	0.023	ug/L	2.73	ND	94.6	50-130	4.88	25	
Endosulfan II	2.53	0.27	0.021	ug/L	2.73	ND	92.7	50-130	4.00	25	
Endosulfan Sulfate	2.56	0.27	0.021	ug/L	2.73	ND	93.9	50-130	3.91	25	
Endrin	2.46	0.27	0.022	ug/L	2.73	ND	89.9	50-130	4.81	25	
Endrin Aldehyde	2.68	0.27	0.044	ug/L	2.73	ND	98.0	50-130	2.88	25	
Endrin Ketone	2.59	0.27	0.021	ug/L	2.73	ND	94.9	50-130	2.72	25	
gamma-BHC	2.57	0.27	0.022	ug/L	2.73	ND	94.2	50-130	0.433	25	
gamma-Chlordane	2.53	0.27	0.046	ug/L	2.73	ND	92.7	50-130	8.18	25	
Heptachlor	2.21	0.27	0.019	ug/L	2.73	ND	80.8	50-130	6.74	25	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0270 - EPA 3510C

Matrix Spike Duplicate (B9I0270-MSD1) **Source: 0905025-01** Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Heptachlor Epoxide	2.58	0.27	0.042	ug/L	2.73	ND	94.6	50-130	4.29	25	
Methoxychlor	2.32	0.27	0.029	ug/L	2.73	ND	84.8	50-130	7.41	25	
Surrogate: DBC	*2.29*			ug/L	*2.73*	*NA*	*83.8*	*40-130*			
Surrogate: TCMX	*2.01*			ug/L	*2.73*	*NA*	*73.6*	*40-120*			

Batch B9I0286 - EPA 3545

Method Blank (B9I0286-BLK1) Prepared: 09/15/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	<0.070	0.070	0.0042	mg/kg	NA	NA	NA	NA	NA	NA	
4,4'-DDE	<0.070	0.070	0.0072	mg/kg	NA	NA	NA	NA	NA	NA	
4,4'-DDT	<0.070	0.070	0.0064	mg/kg	NA	NA	NA	NA	NA	NA	
Aldrin	<0.070	0.070	0.0089	mg/kg	NA	NA	NA	NA	NA	NA	
alpha-BHC	<0.070	0.070	0.0064	mg/kg	NA	NA	NA	NA	NA	NA	
alpha-Chlordane	<0.070	0.070	0.0056	mg/kg	NA	NA	NA	NA	NA	NA	
beta-BHC	<0.070	0.070	0.0064	mg/kg	NA	NA	NA	NA	NA	NA	
delta-BHC	<0.070	0.070	0.0050	mg/kg	NA	NA	NA	NA	NA	NA	
Dieldrin	<0.070	0.070	0.0061	mg/kg	NA	NA	NA	NA	NA	NA	
Endosulfan I	<0.070	0.070	0.0078	mg/kg	NA	NA	NA	NA	NA	NA	
Endosulfan II	<0.070	0.070	0.0058	mg/kg	NA	NA	NA	NA	NA	NA	
Endosulfan Sulfate	<0.070	0.070	0.0064	mg/kg	NA	NA	NA	NA	NA	NA	
Endrin	<0.070	0.070	0.0078	mg/kg	NA	NA	NA	NA	NA	NA	
Endrin Aldehyde	<0.070	0.070	0.027	mg/kg	NA	NA	NA	NA	NA	NA	
Endrin Ketone	<0.070	0.070	0.0086	mg/kg	NA	NA	NA	NA	NA	NA	
gamma-BHC	<0.070	0.070	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
gamma-Chlordane	<0.070	0.070	0.0047	mg/kg	NA	NA	NA	NA	NA	NA	
Heptachlor	<0.070	0.070	0.015	mg/kg	NA	NA	NA	NA	NA	NA	
Heptachlor Epoxide	<0.070	0.070	0.012	mg/kg	NA	NA	NA	NA	NA	NA	
Methoxychlor	<0.070	0.070	0.0058	mg/kg	NA	NA	NA	NA	NA	NA	
Toxaphene	<1.4	1.4	0.27	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: DBC	*0.173*			mg/kg	*0.232*	*NA*	*74.8*	*40-160*			
Surrogate: TCMX	*0.180*			mg/kg	*0.232*	*NA*	*77.8*	*60-130*			

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0286 - EPA 3545

Laboratory Control Sample (B9I0286-BS1)

Prepared: 09/15/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.184	0.071	0.0043	mg/kg	0.237	NA	77.7	70-130	NA	NA	
4,4'-DDE	0.194	0.071	0.0074	mg/kg	0.237	NA	82.0	70-130	NA	NA	
4,4'-DDT	0.197	0.071	0.0065	mg/kg	0.237	NA	83.2	70-130	NA	NA	
Aldrin	0.204	0.071	0.0091	mg/kg	0.237	NA	86.2	70-130	NA	NA	
alpha-BHC	0.206	0.071	0.0065	mg/kg	0.237	NA	87.3	70-130	NA	NA	
alpha-Chlordane	0.198	0.071	0.0057	mg/kg	0.237	NA	83.9	70-130	NA	NA	
beta-BHC	0.210	0.071	0.0065	mg/kg	0.237	NA	88.8	70-130	NA	NA	
delta-BHC	0.202	0.071	0.0051	mg/kg	0.237	NA	85.2	70-130	NA	NA	
Dieldrin	0.197	0.071	0.0062	mg/kg	0.237	NA	83.5	70-130	NA	NA	
Endosulfan I	0.195	0.071	0.0079	mg/kg	0.237	NA	82.6	70-130	NA	NA	
Endosulfan II	0.183	0.071	0.0060	mg/kg	0.237	NA	77.3	70-130	NA	NA	
Endosulfan Sulfate	0.186	0.071	0.0065	mg/kg	0.237	NA	78.8	70-130	NA	NA	
Endrin	0.197	0.071	0.0079	mg/kg	0.237	NA	83.4	70-130	NA	NA	
Endrin Aldehyde	0.191	0.071	0.027	mg/kg	0.237	NA	80.6	70-130	NA	NA	
Endrin Ketone	0.203	0.071	0.0088	mg/kg	0.237	NA	85.7	70-130	NA	NA	
gamma-BHC	0.210	0.071	0.0071	mg/kg	0.237	NA	88.7	70-130	NA	NA	
gamma-Chlordane	0.201	0.071	0.0048	mg/kg	0.237	NA	85.1	70-130	NA	NA	
Heptachlor	0.192	0.071	0.015	mg/kg	0.237	NA	81.0	70-130	NA	NA	
Heptachlor Epoxide	0.201	0.071	0.012	mg/kg	0.237	NA	84.9	70-130	NA	NA	
Methoxychlor	0.200	0.071	0.0060	mg/kg	0.237	NA	84.4	70-130	NA	NA	
Surrogate: DBC	*0.200*			mg/kg	*0.237*	*NA*	*84.7*	*40-160*			
Surrogate: TCMX	*0.191*			mg/kg	*0.237*	*NA*	*81.0*	*60-130*			

Laboratory Control Sample Duplicate (B9I0286-BSD1)

Prepared: 09/15/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.199	0.075	0.0045	mg/kg	0.249	NA	79.7	70-130	7.69	25	
4,4'-DDE	0.203	0.075	0.0078	mg/kg	0.249	NA	81.4	70-130	4.55	25	
4,4'-DDT	0.214	0.075	0.0069	mg/kg	0.249	NA	85.7	70-130	8.21	25	
Aldrin	0.214	0.075	0.0096	mg/kg	0.249	NA	85.8	70-130	4.77	25	
alpha-BHC	0.221	0.075	0.0069	mg/kg	0.249	NA	88.6	70-130	6.71	25	
alpha-Chlordane	0.211	0.075	0.0060	mg/kg	0.249	NA	84.6	70-130	6.04	25	
beta-BHC	0.227	0.075	0.0069	mg/kg	0.249	NA	91.1	70-130	7.70	25	
delta-BHC	0.218	0.075	0.0054	mg/kg	0.249	NA	87.3	70-130	7.65	25	
Dieldrin	0.212	0.075	0.0066	mg/kg	0.249	NA	85.1	70-130	7.12	25	
Endosulfan I	0.209	0.075	0.0084	mg/kg	0.249	NA	83.8	70-130	6.74	25	
Endosulfan II	0.197	0.075	0.0063	mg/kg	0.249	NA	78.9	70-130	7.22	25	
Endosulfan Sulfate	0.202	0.075	0.0069	mg/kg	0.249	NA	80.9	70-130	7.86	25	
Endrin	0.215	0.075	0.0084	mg/kg	0.249	NA	86.1	70-130	8.44	25	
Endrin Aldehyde	0.203	0.075	0.029	mg/kg	0.249	NA	81.3	70-130	6.12	25	
Endrin Ketone	0.237	0.075	0.0093	mg/kg	0.249	NA	95.1	70-130	15.6	25	
gamma-BHC	0.230	0.075	0.0075	mg/kg	0.249	NA	92.3	70-130	9.16	25	
gamma-Chlordane	0.216	0.075	0.0051	mg/kg	0.249	NA	86.6	70-130	6.96	25	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0286 - EPA 3545

Laboratory Control Sample Duplicate (B9I0286-BSD1)

Prepared: 09/15/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Heptachlor	0.200	0.075	0.016	mg/kg	0.249	NA	80.1	70-130	4.16	25	
Heptachlor Epoxide	0.214	0.075	0.013	mg/kg	0.249	NA	85.8	70-130	6.32	25	
Methoxychlor	0.216	0.075	0.0063	mg/kg	0.249	NA	86.8	70-130	8.01	25	
Surrogate: DBC	*0.214*			mg/kg	*0.249*	*NA*	*85.8*	*40-160*			
Surrogate: TCMX	*0.200*			mg/kg	*0.249*	*NA*	*80.4*	*60-130*			

Matrix Spike (B9I0286-MS1)

Source: 0904966-01 Prepared: 09/15/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.218	0.085	0.0051	mg/kg dry	0.283	ND	77.1	50-130	NA	NA	
4,4'-DDE	0.229	0.085	0.0088	mg/kg dry	0.283	ND	80.9	50-130	NA	NA	
4,4'-DDT	0.236	0.085	0.0078	mg/kg dry	0.283	ND	83.3	50-130	NA	NA	
Aldrin	0.242	0.085	0.011	mg/kg dry	0.283	ND	85.4	50-130	NA	NA	
alpha-BHC	0.246	0.085	0.0078	mg/kg dry	0.283	ND	86.8	50-130	NA	NA	
alpha-Chlordane	0.236	0.085	0.0068	mg/kg dry	0.283	ND	83.2	50-130	NA	NA	
beta-BHC	0.250	0.085	0.0078	mg/kg dry	0.283	ND	88.3	50-130	NA	NA	
delta-BHC	0.235	0.085	0.0061	mg/kg dry	0.283	ND	82.9	50-130	NA	NA	
Dieldrin	0.235	0.085	0.0075	mg/kg dry	0.283	ND	82.8	50-130	NA	NA	
Endosulfan I	0.232	0.085	0.0095	mg/kg dry	0.283	ND	81.9	50-130	NA	NA	
Endosulfan II	0.215	0.085	0.0071	mg/kg dry	0.283	ND	75.7	50-130	NA	NA	
Endosulfan Sulfate	0.221	0.085	0.0078	mg/kg dry	0.283	ND	78.0	50-130	NA	NA	
Endrin	0.236	0.085	0.0095	mg/kg dry	0.283	ND	83.3	50-130	NA	NA	
Endrin Aldehyde	0.163	0.085	0.033	mg/kg dry	0.283	ND	57.5	50-130	NA	NA	
Endrin Ketone	0.244	0.085	0.011	mg/kg dry	0.283	ND	86.3	50-130	NA	NA	
gamma-BHC	0.253	0.085	0.0085	mg/kg dry	0.283	ND	89.2	50-130	NA	NA	
gamma-Chlordane	0.240	0.085	0.0058	mg/kg dry	0.283	ND	84.9	50-130	NA	NA	
Heptachlor	0.227	0.085	0.018	mg/kg dry	0.283	ND	80.2	50-130	NA	NA	
Heptachlor Epoxide	0.238	0.085	0.015	mg/kg dry	0.283	ND	84.0	50-130	NA	NA	
Methoxychlor	0.241	0.085	0.0071	mg/kg dry	0.283	ND	84.9	50-130	NA	NA	
Surrogate: DBC	*0.238*			mg/kg dry	*0.283*	*NA*	*83.9*	*40-160*			
Surrogate: TCMX	*0.230*			mg/kg dry	*0.283*	*NA*	*81.3*	*60-130*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0286 - EPA 3545

Matrix Spike (B9I0286-MS2)

Source: 0904980-06 Prepared: 09/15/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.236	0.086	0.0052	mg/kg dry	0.288	ND	82.1	50-130	NA	NA	
4,4'-DDE	0.237	0.086	0.0090	mg/kg dry	0.288	ND	82.6	50-130	NA	NA	
4,4'-DDT	0.249	0.086	0.0079	mg/kg dry	0.288	ND	86.4	50-130	NA	NA	
Aldrin	0.250	0.086	0.011	mg/kg dry	0.288	ND	86.8	50-130	NA	NA	
alpha-BHC	0.255	0.086	0.0079	mg/kg dry	0.288	ND	88.8	50-130	NA	NA	
alpha-Chlordane	0.240	0.086	0.0069	mg/kg dry	0.288	ND	83.3	50-130	NA	NA	
beta-BHC	0.262	0.086	0.0079	mg/kg dry	0.288	ND	91.3	50-130	NA	NA	
delta-BHC	0.229	0.086	0.0062	mg/kg dry	0.288	ND	79.6	50-130	NA	NA	
Dieldrin	0.245	0.086	0.0076	mg/kg dry	0.288	ND	85.1	50-130	NA	NA	
Endosulfan I	0.242	0.086	0.0097	mg/kg dry	0.288	ND	84.2	50-130	NA	NA	
Endosulfan II	0.228	0.086	0.0072	mg/kg dry	0.288	ND	79.2	50-130	NA	NA	
Endosulfan Sulfate	0.233	0.086	0.0079	mg/kg dry	0.288	ND	81.1	50-130	NA	NA	
Endrin	0.252	0.086	0.0097	mg/kg dry	0.288	ND	87.7	50-130	NA	NA	
Endrin Aldehyde	<0.086	0.086	0.033	mg/kg dry	0.288	ND	17.7	50-130	NA	NA	
Endrin Ketone	0.260	0.086	0.011	mg/kg dry	0.288	ND	90.6	50-130	NA	NA	
gamma-BHC	0.263	0.086	0.0086	mg/kg dry	0.288	ND	91.5	50-130	NA	NA	
gamma-Chlordane	0.250	0.086	0.0059	mg/kg dry	0.288	ND	86.9	50-130	NA	NA	
Heptachlor	0.243	0.086	0.019	mg/kg dry	0.288	ND	84.4	50-130	NA	NA	
Heptachlor Epoxide	0.245	0.086	0.015	mg/kg dry	0.288	ND	85.3	50-130	NA	NA	
Methoxychlor	0.254	0.086	0.0072	mg/kg dry	0.288	ND	88.4	50-130	NA	NA	
Surrogate: DBC	*0.245*			mg/kg dry	*0.288*	*NA*	*85.2*	*40-160*			
Surrogate: TCMX	*0.233*			mg/kg dry	*0.288*	*NA*	*80.9*	*60-130*			

Matrix Spike Duplicate (B9I0286-MSD1)

Source: 0904966-01 Prepared: 09/15/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.219	0.085	0.0051	mg/kg dry	0.284	ND	77.2	50-130	0.428	25	
4,4'-DDE	0.226	0.085	0.0089	mg/kg dry	0.284	ND	79.4	50-130	1.67	25	
4,4'-DDT	0.238	0.085	0.0078	mg/kg dry	0.284	ND	83.8	50-130	0.929	25	
Aldrin	0.238	0.085	0.011	mg/kg dry	0.284	ND	83.6	50-130	1.84	25	
alpha-BHC	0.240	0.085	0.0078	mg/kg dry	0.284	ND	84.4	50-130	2.58	25	
alpha-Chlordane	0.230	0.085	0.0068	mg/kg dry	0.284	ND	80.9	50-130	2.49	25	
beta-BHC	0.249	0.085	0.0078	mg/kg dry	0.284	ND	87.6	50-130	0.453	25	
delta-BHC	0.232	0.085	0.0061	mg/kg dry	0.284	ND	81.7	50-130	1.21	25	
Dieldrin	0.233	0.085	0.0075	mg/kg dry	0.284	ND	81.9	50-130	0.907	25	
Endosulfan I	0.230	0.085	0.0095	mg/kg dry	0.284	ND	81.0	50-130	0.856	25	
Endosulfan II	0.215	0.085	0.0072	mg/kg dry	0.284	ND	75.6	50-130	0.176	25	
Endosulfan Sulfate	0.221	0.085	0.0078	mg/kg dry	0.284	ND	77.8	50-130	0.000222	25	
Endrin	0.239	0.085	0.0095	mg/kg dry	0.284	ND	84.1	50-130	1.24	25	
Endrin Aldehyde	0.139	0.085	0.033	mg/kg dry	0.284	ND	48.8	50-130	16.2	25	
Endrin Ketone	0.254	0.085	0.011	mg/kg dry	0.284	ND	89.5	50-130	4.04	25	
gamma-BHC	0.250	0.085	0.0085	mg/kg dry	0.284	ND	87.9	50-130	1.15	25	
gamma-Chlordane	0.239	0.085	0.0058	mg/kg dry	0.284	ND	84.3	50-130	0.450	25	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0286 - EPA 3545

Matrix Spike Duplicate (B9I0286-MSD1)

Source: 0904966-01 Prepared: 09/15/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Heptachlor	0.224	0.085	0.018	mg/kg dry	0.284	ND	78.9	50-130	1.32	25	
Heptachlor Epoxide	0.237	0.085	0.015	mg/kg dry	0.284	ND	83.3	50-130	0.516	25	
Methoxychlor	0.242	0.085	0.0072	mg/kg dry	0.284	ND	85.1	50-130	0.507	25	
Surrogate: DBC	*0.233*			mg/kg dry	*0.284*	*NA*	*82.2*	*40-160*			
Surrogate: TCMX	*0.214*			mg/kg dry	*0.284*	*NA*	*75.2*	*60-130*			

Matrix Spike Duplicate (B9I0286-MSD2)

Source: 0904980-06 Prepared: 09/15/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.246	0.088	0.0053	mg/kg dry	0.294	ND	83.9	50-130	4.24	25	
4,4'-DDE	0.248	0.088	0.0092	mg/kg dry	0.294	ND	84.4	50-130	4.28	25	
4,4'-DDT	0.269	0.088	0.0081	mg/kg dry	0.294	ND	91.5	50-130	7.83	25	
Aldrin	0.259	0.088	0.011	mg/kg dry	0.294	ND	88.2	50-130	3.73	25	
alpha-BHC	0.268	0.088	0.0081	mg/kg dry	0.294	ND	91.1	50-130	4.71	25	
alpha-Chlordane	0.254	0.088	0.0071	mg/kg dry	0.294	ND	86.4	50-130	5.72	25	
beta-BHC	0.280	0.088	0.0081	mg/kg dry	0.294	ND	95.2	50-130	6.34	25	
delta-BHC	0.239	0.088	0.0063	mg/kg dry	0.294	ND	81.3	50-130	4.16	25	
Dieldrin	0.258	0.088	0.0078	mg/kg dry	0.294	ND	87.7	50-130	5.15	25	
Endosulfan I	0.254	0.088	0.0099	mg/kg dry	0.294	ND	86.5	50-130	4.79	25	
Endosulfan II	0.236	0.088	0.0074	mg/kg dry	0.294	ND	80.4	50-130	3.55	25	
Endosulfan Sulfate	0.248	0.088	0.0081	mg/kg dry	0.294	ND	84.5	50-130	6.23	25	
Endrin	0.268	0.088	0.0099	mg/kg dry	0.294	ND	91.2	50-130	6.08	25	
Endrin Aldehyde	<0.088	0.088	0.034	mg/kg dry	0.294	ND	17.1	50-130	0.996	25	
Endrin Ketone	0.283	0.088	0.011	mg/kg dry	0.294	ND	96.2	50-130	8.12	25	
gamma-BHC	0.278	0.088	0.0088	mg/kg dry	0.294	ND	94.6	50-130	5.50	25	
gamma-Chlordane	0.261	0.088	0.0060	mg/kg dry	0.294	ND	88.9	50-130	4.36	25	
Heptachlor	0.254	0.088	0.019	mg/kg dry	0.294	ND	86.4	50-130	4.53	25	
Heptachlor Epoxide	0.257	0.088	0.015	mg/kg dry	0.294	ND	87.4	50-130	4.56	25	
Methoxychlor	0.280	0.088	0.0074	mg/kg dry	0.294	ND	95.5	50-130	9.87	25	
Surrogate: DBC	*0.261*			mg/kg dry	*0.294*	*NA*	*88.8*	*40-160*			
Surrogate: TCMX	*0.243*			mg/kg dry	*0.294*	*NA*	*82.6*	*60-130*			

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0274 - EPA 3510C

Method Blank (B9I0274-BLK1)

Prepared: 09/15/09 Analyzed: 09/16/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	<0.25	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Alachlor	<0.19	0.50	0.19	ug/L	NA	NA	NA	NA	NA	NA	
Atrazine	<0.24	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	<0.34	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Cyanazine	<0.48	0.50	0.48	ug/L	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	<0.26	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
Desethylatrazine	<0.29	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Dimethenamid	<0.24	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
EPTC	<0.22	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Ethalfluralin	<0.47	0.50	0.47	ug/L	NA	NA	NA	NA	NA	NA	
Fonofos	<0.30	0.50	0.30	ug/L	NA	NA	NA	NA	NA	NA	
Metolachlor	<0.28	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
Metribuzin	<0.35	0.50	0.35	ug/L	NA	NA	NA	NA	NA	NA	
Pendimethalin	<0.25	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Phorate	<0.58	1.0	0.58	ug/L	NA	NA	NA	NA	NA	NA	
Prometon	<0.29	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Propachlor	<0.14	0.50	0.14	ug/L	NA	NA	NA	NA	NA	NA	
Propazine	<0.21	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Simazine	<0.32	0.50	0.32	ug/L	NA	NA	NA	NA	NA	NA	
Terbufos	<0.54	1.0	0.54	ug/L	NA	NA	NA	NA	NA	NA	
Triallate	<0.34	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Trifluralin	<0.21	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: Atrazine-d5	*9.65*			ug/L	*10.0*	*NA*	*96.5*	*50-120*			
Surrogate: Diazinon-d10	*9.12*			ug/L	*10.0*	*NA*	*91.2*	*50-120*			

Laboratory Control Sample (B9I0274-BS1)

Prepared: 09/15/09 Analyzed: 09/16/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	10.0	0.50	0.25	ug/L	10.0	NA	100	65-115	NA	NA	
Alachlor	10.4	0.50	0.19	ug/L	10.0	NA	104	65-115	NA	NA	
Atrazine	10.0	0.50	0.24	ug/L	10.0	NA	100	65-115	NA	NA	
Chlorpyrifos	9.83	0.50	0.34	ug/L	10.0	NA	98.3	65-115	NA	NA	
Cyanazine	10.4	0.50	0.48	ug/L	10.0	NA	104	65-115	NA	NA	
Deisopropylatrazine	7.97	0.50	0.26	ug/L	10.0	NA	79.7	65-115	NA	NA	
Desethylatrazine	10.2	0.50	0.29	ug/L	10.0	NA	102	65-115	NA	NA	
Dimethenamid	10.7	0.50	0.24	ug/L	10.0	NA	107	65-115	NA	NA	
EPTC	8.39	0.50	0.22	ug/L	10.0	NA	83.9	50-110	NA	NA	
Ethalfluralin	9.88	0.50	0.47	ug/L	10.0	NA	98.8	65-115	NA	NA	
Fonofos	10.2	0.50	0.30	ug/L	10.0	NA	102	55-115	NA	NA	
Metolachlor	10.5	0.50	0.28	ug/L	10.0	NA	105	70-120	NA	NA	
Metribuzin	10.2	0.50	0.35	ug/L	10.0	NA	102	70-120	NA	NA	
Pendimethalin	10.8	0.50	0.25	ug/L	10.0	NA	108	65-115	NA	NA	
Phorate	9.67	1.0	0.58	ug/L	10.0	NA	96.7	30-100	NA	NA	

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0274 - EPA 3510C

Laboratory Control Sample (B9I0274-BS1)

Prepared: 09/15/09 Analyzed: 09/16/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	10.4	0.50	0.29	ug/L	10.0	NA	104	70-120	NA	NA	
Propachlor	9.92	0.50	0.14	ug/L	10.0	NA	99.2	65-115	NA	NA	
Propazine	10.2	0.50	0.21	ug/L	10.0	NA	102	65-115	NA	NA	
Simazine	8.82	0.50	0.32	ug/L	10.0	NA	88.2	65-115	NA	NA	
Terbufos	8.97	1.0	0.54	ug/L	10.0	NA	89.7	30-100	NA	NA	
Triallate	9.91	0.50	0.34	ug/L	10.0	NA	99.1	65-115	NA	NA	
Trifluralin	9.42	0.50	0.21	ug/L	10.0	NA	94.2	65-115	NA	NA	
Surrogate: Atrazine-d5	*8.77*			ug/L	*10.0*	*NA*	*87.7*	*50-120*			
Surrogate: Diazinon-d10	*8.53*			ug/L	*10.0*	*NA*	*85.3*	*50-120*			

Laboratory Control Sample Duplicate (B9I0274-BSD1)

Prepared: 09/15/09 Analyzed: 09/16/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	10.4	0.50	0.25	ug/L	10.0	NA	104	65-115	3.04	25	
Alachlor	10.7	0.50	0.19	ug/L	10.0	NA	107	65-115	2.94	25	
Atrazine	10.3	0.50	0.24	ug/L	10.0	NA	103	65-115	2.66	25	
Chlorpyrifos	9.96	0.50	0.34	ug/L	10.0	NA	99.6	65-115	1.31	25	
Cyanazine	10.5	0.50	0.48	ug/L	10.0	NA	105	65-115	1.15	25	
Deisopropylatrazine	8.43	0.50	0.26	ug/L	10.0	NA	84.3	65-115	5.61	25	
Desethylatrazine	10.1	0.50	0.29	ug/L	10.0	NA	101	65-115	1.18	25	
Dimethenamid	10.6	0.50	0.24	ug/L	10.0	NA	106	65-115	1.04	25	
EPTC	8.31	0.50	0.22	ug/L	10.0	NA	83.1	50-110	0.958	30	
Ethalfluralin	10.4	0.50	0.47	ug/L	10.0	NA	104	65-115	5.61	30	
Fonofos	10.2	0.50	0.30	ug/L	10.0	NA	102	55-115	0.393	30	
Metolachlor	10.6	0.50	0.28	ug/L	10.0	NA	106	70-120	1.14	25	
Metribuzin	10.5	0.50	0.35	ug/L	10.0	NA	105	70-120	3.18	25	
Pendimethalin	11.0	0.50	0.25	ug/L	10.0	NA	110	65-115	1.92	25	
Phorate	9.58	1.0	0.58	ug/L	10.0	NA	95.8	30-100	0.935	30	
Prometon	10.4	0.50	0.29	ug/L	10.0	NA	104	70-120	0.287	30	
Propachlor	10.2	0.50	0.14	ug/L	10.0	NA	102	65-115	2.98	30	
Propazine	10.4	0.50	0.21	ug/L	10.0	NA	104	65-115	2.03	25	
Simazine	9.37	0.50	0.32	ug/L	10.0	NA	93.7	65-115	6.05	25	
Terbufos	9.62	1.0	0.54	ug/L	10.0	NA	96.2	30-100	6.99	30	
Triallate	10.0	0.50	0.34	ug/L	10.0	NA	100	65-115	1.30	25	
Trifluralin	9.56	0.50	0.21	ug/L	10.0	NA	95.6	65-115	1.48	25	
Surrogate: Atrazine-d5	*9.10*			ug/L	*10.0*	*NA*	*91.0*	*50-120*			
Surrogate: Diazinon-d10	*9.04*			ug/L	*10.0*	*NA*	*90.4*	*50-120*			

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UMP018811

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0274 - EPA 3510C

Duplicate (B9I0274-DUP1)

Source: 0904909-01 Prepared: 09/15/09 Analyzed: 09/16/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	<0.31	0.61	0.31	ug/L	NA	ND	NA	NA	NA	30	
Alachlor	<0.23	0.61	0.23	ug/L	NA	ND	NA	NA	NA	30	
Atrazine	0.871	0.61	0.29	ug/L	NA	0.731	NA	NA	17.5	30	
Chlorpyrifos	<0.41	0.61	0.41	ug/L	NA	ND	NA	NA	NA	30	
Cyanazine	<0.59	0.61	0.59	ug/L	NA	ND	NA	NA	NA	30	
Deisopropylatrazine	<0.32	0.61	0.32	ug/L	NA	ND	NA	NA	NA	30	
Desethylatrazine	0.491 J	0.61	0.36	ug/L	NA	0.449	NA	NA	8.96	30	
Dimethenamid	<0.29	0.61	0.29	ug/L	NA	ND	NA	NA	NA	30	
EPTC	<0.26	0.61	0.26	ug/L	NA	ND	NA	NA	NA	30	
Ethalfluralin	<0.57	0.61	0.57	ug/L	NA	ND	NA	NA	NA	30	
Fonofos	<0.36	0.61	0.36	ug/L	NA	ND	NA	NA	NA	30	
Metolachlor	<0.34	0.61	0.34	ug/L	NA	ND	NA	NA	NA	30	
Metribuzin	<0.43	0.61	0.43	ug/L	NA	ND	NA	NA	NA	30	
Pendimethalin	<0.31	0.61	0.31	ug/L	NA	ND	NA	NA	NA	30	
Phorate	<0.72	1.2	0.72	ug/L	NA	ND	NA	NA	NA	30	
Prometon	<0.36	0.61	0.36	ug/L	NA	ND	NA	NA	NA	30	
Propachlor	<0.17	0.61	0.17	ug/L	NA	ND	NA	NA	NA	30	
Propazine	<0.25	0.61	0.25	ug/L	NA	ND	NA	NA	NA	30	
Simazine	<0.39	0.61	0.39	ug/L	NA	ND	NA	NA	NA	30	
Terbufos	<0.67	1.2	0.67	ug/L	NA	ND	NA	NA	NA	30	
Triallate	<0.41	0.61	0.41	ug/L	NA	ND	NA	NA	NA	30	
Trifluralin	<0.26	0.61	0.26	ug/L	NA	ND	NA	NA	NA	30	
Surrogate: Atrazine-d5	*11.2*			ug/L	*12.3*	*NA*	*90.9*	*50-120*			
Surrogate: Diazinon-d10	*11.2*			ug/L	*12.3*	*NA*	*91.5*	*50-120*			

Batch B9I0441 - EPA 3545

Method Blank (B9I0441-BLK1)

Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	<0.040	0.040	0.010	mg/kg	NA	NA	NA	NA	NA	NA	
Alachlor	<0.040	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Atrazine	<0.040	0.040	0.010	mg/kg	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	<0.040	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Cyanazine	<0.040	0.040	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	<0.040	0.040	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Desethylatrazine	<0.040	0.040	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Dimethenamid	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
EPTC	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Ethalfluralin	<0.040	0.040	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Fonofos	<0.040	0.040	0.0040	mg/kg	NA	NA	NA	NA	NA	NA	
Metolachlor	<0.040	0.040	0.0030	mg/kg	NA	NA	NA	NA	NA	NA	
Metribuzin	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0441 - EPA 3545

Method Blank (B9I0441-BLK1)

Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Pendimethalin	<0.040	0.040	0.016	mg/kg	NA	NA	NA	NA	NA	NA	
Phorate	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Prometon	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Propachlor	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Propazine	<0.040	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Simazine	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Terbufos	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Triallate	<0.040	0.040	0.0050	mg/kg	NA	NA	NA	NA	NA	NA	
Trifluralin	<0.040	0.040	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: Atrazine-d5	*0.357*			mg/kg	*0.330*	*NA*	*108*	*50-125*			
Surrogate: Diazinon-d10	*0.359*			mg/kg	*0.330*	*NA*	*109*	*35-120*			

Laboratory Control Sample (B9I0441-BS1)

Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.334	0.039	0.0098	mg/kg	0.326	NA	102	70-120	NA	NA	
Alachlor	0.313	0.039	0.0069	mg/kg	0.326	NA	96.0	70-120	NA	NA	
Atrazine	0.291	0.039	0.0098	mg/kg	0.326	NA	89.2	70-120	NA	NA	
Chlorpyrifos	0.300	0.039	0.0069	mg/kg	0.326	NA	92.0	70-120	NA	NA	
Cyanazine	0.279	0.039	0.0078	mg/kg	0.326	NA	85.6	70-120	NA	NA	
Deisopropylatrazine	0.249	0.039	0.0078	mg/kg	0.326	NA	76.4	65-115	NA	NA	
Desethylatrazine	0.299	0.039	0.011	mg/kg	0.326	NA	91.7	70-120	NA	NA	
Dimethenamid	0.320	0.039	0.0059	mg/kg	0.326	NA	98.1	70-120	NA	NA	
EPTC	0.276	0.039	0.0059	mg/kg	0.326	NA	84.7	60-105	NA	NA	
Ethalfluralin	0.303	0.039	0.014	mg/kg	0.326	NA	93.0	70-120	NA	NA	
Fonofos	0.317	0.039	0.0039	mg/kg	0.326	NA	97.2	70-115	NA	NA	
Metolachlor	0.318	0.039	0.0029	mg/kg	0.326	NA	97.4	70-120	NA	NA	
Metribuzin	0.316	0.039	0.0088	mg/kg	0.326	NA	97.0	70-120	NA	NA	
Pendimethalin	0.313	0.039	0.016	mg/kg	0.326	NA	95.8	70-120	NA	NA	
Phorate	0.259	0.039	0.0059	mg/kg	0.326	NA	79.5	70-115	NA	NA	
Prometon	0.316	0.039	0.0059	mg/kg	0.326	NA	96.9	70-120	NA	NA	
Propachlor	0.304	0.039	0.0088	mg/kg	0.326	NA	93.3	70-115	NA	NA	
Propazine	0.307	0.039	0.0069	mg/kg	0.326	NA	94.0	70-120	NA	NA	
Simazine	0.236	0.039	0.0088	mg/kg	0.326	NA	72.2	60-115	NA	NA	
Terbufos	0.236	0.039	0.0088	mg/kg	0.326	NA	72.3	70-115	NA	NA	
Triallate	0.303	0.039	0.0049	mg/kg	0.326	NA	93.0	70-115	NA	NA	
Trifluralin	0.267	0.039	0.014	mg/kg	0.326	NA	81.7	70-115	NA	NA	
Surrogate: Atrazine-d5	*0.274*			mg/kg	*0.326*	*NA*	*84.0*	*50-125*			
Surrogate: Diazinon-d10	*0.285*			mg/kg	*0.326*	*NA*	*87.2*	*35-120*			

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0441 - EPA 3545

Laboratory Control Sample Duplicate (B9I0441-BSD1)

Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.339	0.039	0.0098	mg/kg	0.326	NA	104	70-120	1.42	20	
Alachlor	0.337	0.039	0.0068	mg/kg	0.326	NA	104	70-120	7.39	20	
Atrazine	0.307	0.039	0.0098	mg/kg	0.326	NA	94.1	70-120	5.22	20	
Chlorpyrifos	0.312	0.039	0.0068	mg/kg	0.326	NA	95.9	70-120	4.02	20	
Cyanazine	0.338	0.039	0.0078	mg/kg	0.326	NA	104	70-120	19.1	20	
Deisopropylatrazine	0.275	0.039	0.0078	mg/kg	0.326	NA	84.3	65-115	9.70	20	
Desethylatrazine	0.328	0.039	0.011	mg/kg	0.326	NA	101	70-120	9.32	20	
Dimethenamid	0.336	0.039	0.0059	mg/kg	0.326	NA	103	70-120	4.74	20	
EPTC	0.282	0.039	0.0059	mg/kg	0.326	NA	86.5	60-105	1.97	20	
Ethalfluralin	0.301	0.039	0.014	mg/kg	0.326	NA	92.5	70-120	0.670	20	
Fonofos	0.338	0.039	0.0039	mg/kg	0.326	NA	104	70-115	6.44	20	
Metolachlor	0.335	0.039	0.0029	mg/kg	0.326	NA	103	70-120	5.36	20	
Metribuzin	0.315	0.039	0.0088	mg/kg	0.326	NA	96.8	70-120	0.337	20	
Pendimethalin	0.331	0.039	0.016	mg/kg	0.326	NA	102	70-120	5.65	20	
Phorate	0.300	0.039	0.0059	mg/kg	0.326	NA	92.1	70-115	14.6	20	
Prometon	0.332	0.039	0.0059	mg/kg	0.326	NA	102	70-120	5.00	20	
Propachlor	0.326	0.039	0.0088	mg/kg	0.326	NA	100	70-115	6.80	20	
Propazine	0.323	0.039	0.0068	mg/kg	0.326	NA	99.2	70-120	5.25	20	
Simazine	0.239	0.039	0.0088	mg/kg	0.326	NA	73.5	60-115	1.65	20	
Terbufos	0.277	0.039	0.0088	mg/kg	0.326	NA	85.1	70-115	16.1	20	
Triallate	0.318	0.039	0.0049	mg/kg	0.326	NA	97.6	70-115	4.70	20	
Trifluralin	0.297	0.039	0.014	mg/kg	0.326	NA	91.1	70-115	10.7	20	
Surrogate: Atrazine-d5	*0.303*			mg/kg	*0.326*	*NA*	*93.0*	*50-125*			
Surrogate: Diazinon-d10	*0.305*			mg/kg	*0.326*	*NA*	*93.6*	*35-120*			

Matrix Spike (B9I0441-MS1)

Source: 0904966-01 Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.362	0.046	0.012	mg/kg dry	0.387	ND	93.5	50-120	NA	NA	
Alachlor	0.368	0.046	0.0081	mg/kg dry	0.387	ND	95.3	55-120	NA	NA	
Atrazine	0.368	0.046	0.012	mg/kg dry	0.387	ND	95.1	60-120	NA	NA	
Chlorpyrifos	0.293	0.046	0.0081	mg/kg dry	0.387	ND	75.8	40-125	NA	NA	
Cyanazine	0.365	0.046	0.0093	mg/kg dry	0.387	ND	94.4	55-125	NA	NA	
Deisopropylatrazine	0.326	0.046	0.0093	mg/kg dry	0.387	ND	84.3	55-120	NA	NA	
Desethylatrazine	0.389	0.046	0.013	mg/kg dry	0.387	ND	101	60-125	NA	NA	
Dimethenamid	0.380	0.046	0.0070	mg/kg dry	0.387	ND	98.3	55-120	NA	NA	
EPTC	0.319	0.046	0.0070	mg/kg dry	0.387	ND	82.4	40-105	NA	NA	
Ethalfluralin	0.308	0.046	0.016	mg/kg dry	0.387	ND	79.7	40-120	NA	NA	
Fonofos	0.344	0.046	0.0046	mg/kg dry	0.387	ND	89.0	45-115	NA	NA	
Metolachlor	0.366	0.046	0.0035	mg/kg dry	0.387	ND	94.6	50-125	NA	NA	
Metribuzin	0.385	0.046	0.010	mg/kg dry	0.387	ND	99.6	55-125	NA	NA	
Pendimethalin	0.312	0.046	0.019	mg/kg dry	0.387	ND	80.7	40-120	NA	NA	
Phorate	0.341	0.046	0.0070	mg/kg dry	0.387	ND	88.2	40-115	NA	NA	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0441 - EPA 3545

Matrix Spike (B9I0441-MS1)

Source: 0904966-01 Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	0.387	0.046	0.0070	mg/kg dry	0.387	ND	100	60-125	NA	NA	
Propachlor	0.381	0.046	0.010	mg/kg dry	0.387	ND	98.5	60-115	NA	NA	
Propazine	0.374	0.046	0.0081	mg/kg dry	0.387	ND	96.7	55-120	NA	NA	
Simazine	0.280	0.046	0.010	mg/kg dry	0.387	ND	72.3	50-120	NA	NA	
Terbufos	0.297	0.046	0.010	mg/kg dry	0.387	ND	76.7	40-120	NA	NA	
Triallate	0.305	0.046	0.0058	mg/kg dry	0.387	ND	78.9	40-115	NA	NA	
Trifluralin	0.272	0.046	0.016	mg/kg dry	0.387	ND	70.3	40-115	NA	NA	
Surrogate: Atrazine-d5	*0.345*			mg/kg dry	*0.387*	*NA*	*89.2*	*50-125*			
Surrogate: Diazinon-d10	*0.356*			mg/kg dry	*0.387*	*NA*	*92.0*	*35-120*			

Matrix Spike (B9I0441-MS2)

Source: 0904980-06 Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.325	0.048	0.012	mg/kg dry	0.396	ND	82.2	50-120	NA	NA	
Alachlor	0.329	0.048	0.0084	mg/kg dry	0.396	ND	83.0	55-120	NA	NA	
Atrazine	0.350	0.048	0.012	mg/kg dry	0.396	ND	88.5	60-120	NA	NA	
Chlorpyrifos	0.235	0.048	0.0084	mg/kg dry	0.396	ND	59.3	40-125	NA	NA	
Cyanazine	0.334	0.048	0.0096	mg/kg dry	0.396	ND	84.5	55-125	NA	NA	
Deisopropylatrazine	0.313	0.048	0.0096	mg/kg dry	0.396	ND	79.1	55-120	NA	NA	
Desethylatrazine	0.363	0.048	0.013	mg/kg dry	0.396	ND	91.6	60-125	NA	NA	
Dimethenamid	0.341	0.048	0.0072	mg/kg dry	0.396	ND	86.2	55-120	NA	NA	
EPTC	0.302	0.048	0.0072	mg/kg dry	0.396	ND	76.2	40-105	NA	NA	
Ethalfluralin	0.225	0.048	0.017	mg/kg dry	0.396	ND	56.8	40-120	NA	NA	
Fonofos	0.305	0.048	0.0048	mg/kg dry	0.396	ND	77.0	45-115	NA	NA	
Metolachlor	0.321	0.048	0.0036	mg/kg dry	0.396	ND	81.2	50-125	NA	NA	
Metribuzin	0.333	0.048	0.011	mg/kg dry	0.396	ND	84.1	55-125	NA	NA	
Pendimethalin	0.244	0.048	0.019	mg/kg dry	0.396	ND	61.6	40-120	NA	NA	
Phorate	0.276	0.048	0.0072	mg/kg dry	0.396	ND	69.8	40-115	NA	NA	
Prometon	0.345	0.048	0.0072	mg/kg dry	0.396	ND	87.2	60-125	NA	NA	
Propachlor	0.353	0.048	0.011	mg/kg dry	0.396	ND	89.1	60-115	NA	NA	
Propazine	0.340	0.048	0.0084	mg/kg dry	0.396	ND	86.0	55-120	NA	NA	
Simazine	0.274	0.048	0.011	mg/kg dry	0.396	ND	69.3	50-120	NA	NA	
Terbufos	0.231	0.048	0.011	mg/kg dry	0.396	ND	58.4	40-120	NA	NA	
Triallate	0.248	0.048	0.0060	mg/kg dry	0.396	ND	62.7	40-115	NA	NA	
Trifluralin	0.209	0.048	0.017	mg/kg dry	0.396	ND	52.8	40-115	NA	NA	
Surrogate: Atrazine-d5	*0.332*			mg/kg dry	*0.396*	*NA*	*83.8*	*50-125*			
Surrogate: Diazinon-d10	*0.289*			mg/kg dry	*0.396*	*NA*	*73.1*	*35-120*			

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UMP018815

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0441 - EPA 3545

Matrix Spike Duplicate (B9I0441-MSD1)

Source: 0904966-01 Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.324	0.046	0.012	mg/kg dry	0.385	ND	84.3	50-120	10.8	25	
Alachlor	0.334	0.046	0.0081	mg/kg dry	0.385	ND	86.7	55-120	9.91	25	
Atrazine	0.344	0.046	0.012	mg/kg dry	0.385	ND	89.4	60-120	6.64	25	
Chlorpyrifos	0.259	0.046	0.0081	mg/kg dry	0.385	ND	67.4	40-125	12.2	25	
Cyanazine	0.330	0.046	0.0093	mg/kg dry	0.385	ND	85.8	55-125	10.0	25	
Deisopropylatrazine	0.318	0.046	0.0093	mg/kg dry	0.385	ND	82.6	55-120	2.50	25	
Desethylatrazine	0.363	0.046	0.013	mg/kg dry	0.385	ND	94.4	60-125	6.82	25	
Dimethenamid	0.345	0.046	0.0070	mg/kg dry	0.385	ND	89.7	55-120	9.61	25	
EPTC	0.280	0.046	0.0070	mg/kg dry	0.385	ND	72.8	40-105	12.8	25	
Ethalfluralin	0.272	0.046	0.016	mg/kg dry	0.385	ND	70.6	40-120	12.6	25	
Fonofos	0.309	0.046	0.0046	mg/kg dry	0.385	ND	80.4	45-115	10.6	25	
Metolachlor	0.317	0.046	0.0035	mg/kg dry	0.385	ND	82.3	50-125	14.4	25	
Metribuzin	0.360	0.046	0.010	mg/kg dry	0.385	ND	93.6	55-125	6.68	25	
Pendimethalin	0.269	0.046	0.019	mg/kg dry	0.385	ND	69.9	40-120	14.8	25	
Phorate	0.295	0.046	0.0070	mg/kg dry	0.385	ND	76.6	40-115	14.5	25	
Prometon	0.350	0.046	0.0070	mg/kg dry	0.385	ND	90.9	60-125	10.2	25	
Propachlor	0.358	0.046	0.010	mg/kg dry	0.385	ND	92.9	60-115	6.32	25	
Propazine	0.337	0.046	0.0081	mg/kg dry	0.385	ND	87.5	55-120	10.5	25	
Simazine	0.254	0.046	0.010	mg/kg dry	0.385	ND	66.1	50-120	9.42	25	
Terbufos	0.248	0.046	0.010	mg/kg dry	0.385	ND	64.4	40-120	17.9	25	
Triallate	0.271	0.046	0.0058	mg/kg dry	0.385	ND	70.3	40-115	12.0	25	
Trifluralin	0.238	0.046	0.016	mg/kg dry	0.385	ND	61.8	40-115	13.3	25	
Surrogate: Atrazine-d5	*0.321*			mg/kg dry	*0.385*	*NA*	*83.5*	*50-125*			
Surrogate: Diazinon-d10	*0.293*			mg/kg dry	*0.385*	*NA*	*76.1*	*35-120*			

Matrix Spike Duplicate (B9I0441-MSD2)

Source: 0904980-06 Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.321	0.047	0.012	mg/kg dry	0.390	ND	82.3	50-120	1.38	25	
Alachlor	0.313	0.047	0.0082	mg/kg dry	0.390	ND	80.3	55-120	4.81	25	
Atrazine	0.343	0.047	0.012	mg/kg dry	0.390	ND	87.9	60-120	2.18	25	
Chlorpyrifos	0.230	0.047	0.0082	mg/kg dry	0.390	ND	58.9	40-125	2.18	25	
Cyanazine	0.335	0.047	0.0094	mg/kg dry	0.390	ND	85.8	55-125	0.0279	25	
Deisopropylatrazine	0.312	0.047	0.0094	mg/kg dry	0.390	ND	80.1	55-120	0.243	25	
Desethylatrazine	0.372	0.047	0.013	mg/kg dry	0.390	ND	95.4	60-125	2.57	25	
Dimethenamid	0.335	0.047	0.0070	mg/kg dry	0.390	ND	85.9	55-120	1.85	25	
EPTC	0.299	0.047	0.0070	mg/kg dry	0.390	ND	76.6	40-105	0.975	25	
Ethalfluralin	0.217	0.047	0.016	mg/kg dry	0.390	ND	55.7	40-120	3.45	25	
Fonofos	0.300	0.047	0.0047	mg/kg dry	0.390	ND	77.0	45-115	1.50	25	
Metolachlor	0.314	0.047	0.0035	mg/kg dry	0.390	ND	80.6	50-125	2.24	25	
Metribuzin	0.338	0.047	0.011	mg/kg dry	0.390	ND	86.8	55-125	1.66	25	
Pendimethalin	0.228	0.047	0.019	mg/kg dry	0.390	ND	58.5	40-120	6.66	25	
Phorate	0.277	0.047	0.0070	mg/kg dry	0.390	ND	71.1	40-115	0.346	25	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0441 - EPA 3545

Matrix Spike Duplicate (B9I0441-MSD2) **Source: 0904980-06** Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	0.356	0.047	0.0070	mg/kg dry	0.390	ND	91.2	60-125	2.99	25	
Propachlor	0.369	0.047	0.011	mg/kg dry	0.390	ND	94.7	60-115	4.60	25	
Propazine	0.342	0.047	0.0082	mg/kg dry	0.390	ND	87.7	55-120	0.459	25	
Simazine	0.251	0.047	0.011	mg/kg dry	0.390	ND	64.5	50-120	8.67	25	
Terbufos	0.227	0.047	0.011	mg/kg dry	0.390	ND	58.2	40-120	1.84	25	
Triallate	0.235	0.047	0.0058	mg/kg dry	0.390	ND	60.2	40-115	5.57	25	
Trifluralin	0.212	0.047	0.016	mg/kg dry	0.390	ND	54.4	40-115	1.49	25	
Surrogate: Atrazine-d5	*0.328*			mg/kg dry	*0.390*	*NA*	*84.1*	*50-125*			
Surrogate: Diazinon-d10	*0.270*			mg/kg dry	*0.390*	*NA*	*69.3*	*35-120*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0295 - EPA 3510C

Method Blank (B9I0295-BLK1)

Prepared: 09/15/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	<0.50	0.50	0.31	ug/L	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	<0.50	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D	<0.50	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D.B.	<0.50	0.50	0.15	ug/L	NA	NA	NA	NA	NA	NA	
Bentazon	<0.50	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Dicamba	<0.50	0.50	0.38	ug/L	NA	NA	NA	NA	NA	NA	
Dinoseb	<0.50	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
M.C.P.A.	<0.30	0.30	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	<0.50	0.50	0.39	ug/L	NA	NA	NA	NA	NA	NA	
Picloram	<0.50	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Triclopyr	<0.50	0.50	0.41	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	*3.76*			ug/L	*5.00*	*NA*	*75.2*	*65-130*			

Laboratory Control Sample (B9I0295-BS1)

Prepared: 09/15/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.29	0.50	0.31	ug/L	5.00	NA	85.8	70-130	NA	NA	
2,4,5-T.P.	4.28	0.50	0.28	ug/L	5.00	NA	85.6	70-130	NA	NA	
2,4-D	4.02	0.50	0.26	ug/L	5.00	NA	80.4	70-130	NA	NA	
2,4-D.B.	3.95	0.50	0.15	ug/L	5.00	NA	79.0	75-140	NA	NA	
Bentazon	4.04	0.50	0.22	ug/L	5.00	NA	80.8	75-135	NA	NA	
Dicamba	3.91	0.50	0.38	ug/L	5.00	NA	78.2	65-130	NA	NA	
Dinoseb	3.09	0.50	0.34	ug/L	5.00	NA	61.8	40-125	NA	NA	
M.C.P.A.	4.02	0.30	0.29	ug/L	5.00	NA	80.4	70-130	NA	NA	
Pentachlorophenol	3.87	0.50	0.39	ug/L	5.00	NA	77.4	70-120	NA	NA	
Picloram	3.47	0.50	0.25	ug/L	5.00	NA	69.4	60-125	NA	NA	
Triclopyr	4.23	0.50	0.41	ug/L	5.00	NA	84.6	75-125	NA	NA	
Surrogate: D.C.A.A.	*3.85*			ug/L	*5.00*	*NA*	*77.0*	*65-130*			

Laboratory Control Sample Duplicate (B9I0295-BSD1)

Prepared: 09/15/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.39	0.50	0.31	ug/L	5.00	NA	87.8	70-130	2.30	20	
2,4,5-T.P.	4.08	0.50	0.28	ug/L	5.00	NA	81.6	70-130	4.78	20	
2,4-D	4.04	0.50	0.26	ug/L	5.00	NA	80.8	70-130	0.496	20	
2,4-D.B.	4.06	0.50	0.15	ug/L	5.00	NA	81.2	75-140	2.75	20	
Bentazon	3.86	0.50	0.22	ug/L	5.00	NA	77.2	75-135	4.56	20	
Dicamba	3.81	0.50	0.38	ug/L	5.00	NA	76.2	65-130	2.59	20	
Dinoseb	2.80	0.50	0.34	ug/L	5.00	NA	56.0	40-125	9.85	20	
M.C.P.A.	4.11	0.30	0.29	ug/L	5.00	NA	82.2	70-130	2.21	20	
Pentachlorophenol	3.47	0.50	0.39	ug/L	5.00	NA	69.4	70-120	10.9	20	
Picloram	3.48	0.50	0.25	ug/L	5.00	NA	69.6	60-125	0.288	20	
Triclopyr	4.06	0.50	0.41	ug/L	5.00	NA	81.2	75-125	4.10	20	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0295 - EPA 3510C

Laboratory Control Sample Duplicate (B9I0295-BSD1)

Prepared: 09/15/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: D.C.A.A.	*3.66*			ug/L	*5.00*	*NA*	*73.2*	*65-130*			

Matrix Spike (B9I0295-MS1)

Source: 0904909-01 Prepared: 09/15/09 Analyzed: 09/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.01	0.50	0.31	ug/L	5.00	ND	80.2	70-140	NA	NA	
2,4,5-T.P.	3.95	0.50	0.28	ug/L	5.00	ND	79.0	70-135	NA	NA	
2,4-D	3.83	0.50	0.26	ug/L	5.00	ND	76.6	70-140	NA	NA	
2,4-D.B.	3.73	0.50	0.15	ug/L	5.00	ND	74.6	75-140	NA	NA	
Bentazon	3.72	0.50	0.22	ug/L	5.00	ND	74.4	70-140	NA	NA	
Dicamba	3.77	0.50	0.38	ug/L	5.00	ND	75.4	65-140	NA	NA	
Dinoseb	3.23	0.50	0.34	ug/L	5.00	ND	64.6	40-130	NA	NA	
M.C.P.A.	3.92	0.30	0.29	ug/L	5.00	ND	78.4	60-140	NA	NA	
Pentachlorophenol	3.63	0.50	0.39	ug/L	5.00	ND	72.6	70-125	NA	NA	
Picloram	3.49	0.50	0.25	ug/L	5.00	ND	69.8	45-140	NA	NA	
Triclopyr	3.93	0.50	0.41	ug/L	5.00	ND	78.6	75-125	NA	NA	
Surrogate: D.C.A.A.	*3.75*			ug/L	*5.00*	*NA*	*75.0*	*65-130*			

Matrix Spike Duplicate (B9I0295-MSD1)

Source: 0904909-01 Prepared: 09/15/09 Analyzed: 09/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	3.90	0.50	0.31	ug/L	5.00	ND	78.0	70-140	2.78	25	
2,4,5-T.P.	3.61	0.50	0.28	ug/L	5.00	ND	72.2	70-135	8.99	25	
2,4-D	3.69	0.50	0.26	ug/L	5.00	ND	73.8	70-140	3.72	25	
2,4-D.B.	3.74	0.50	0.15	ug/L	5.00	ND	74.8	75-140	0.268	25	
Bentazon	3.30	0.50	0.22	ug/L	5.00	ND	66.0	70-140	12.0	25	
Dicamba	3.70	0.50	0.38	ug/L	5.00	ND	74.0	65-140	1.87	25	
Dinoseb	2.99	0.50	0.34	ug/L	5.00	ND	59.8	40-130	7.72	25	
M.C.P.A.	3.48	0.30	0.29	ug/L	5.00	ND	69.6	60-140	11.9	25	
Pentachlorophenol	3.22	0.50	0.39	ug/L	5.00	ND	64.4	70-125	12.0	25	
Picloram	3.03	0.50	0.25	ug/L	5.00	ND	60.6	45-140	14.1	25	
Triclopyr	3.63	0.50	0.41	ug/L	5.00	ND	72.6	75-125	7.94	25	
Surrogate: D.C.A.A.	*3.54*			ug/L	*5.00*	*NA*	*70.8*	*65-130*			

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UMP018819

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0428 - EPA 3545

Method Blank (B9I0428-BLK1)

Prepared: 09/21/09 Analyzed: 09/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	<0.050	0.050	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	<0.050	0.050	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D	<0.050	0.050	0.012	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D.B.	<0.050	0.050	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Bentazon	<0.050	0.050	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Dicamba	<0.050	0.050	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Dinoseb	<0.050	0.050	0.0050	mg/kg	NA	NA	NA	NA	NA	NA	
M.C.P.A.	<0.050	0.050	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	<0.050	0.050	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Picloram	<0.050	0.050	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Triclopyr	<0.050	0.050	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	*0.131*			mg/kg	*0.167*	*NA*	*78.8*	*50-125*			

Laboratory Control Sample (B9I0428-BS1)

Prepared: 09/21/09 Analyzed: 09/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.121	0.050	0.0090	mg/kg	0.167	NA	72.6	60-125	NA	NA	
2,4,5-T.P.	0.124	0.050	0.0070	mg/kg	0.167	NA	74.2	65-125	NA	NA	
2,4-D	0.113	0.050	0.012	mg/kg	0.167	NA	67.4	60-125	NA	NA	
2,4-D.B.	0.133	0.050	0.011	mg/kg	0.167	NA	79.8	70-130	NA	NA	
Bentazon	0.135	0.050	0.0090	mg/kg	0.167	NA	80.6	65-125	NA	NA	
Dicamba	0.113	0.050	0.0080	mg/kg	0.167	NA	67.8	60-120	NA	NA	
Dinoseb	0.0812	0.050	0.0050	mg/kg	0.167	NA	48.6	30-120	NA	NA	
M.C.P.A.	0.112	0.050	0.014	mg/kg	0.167	NA	66.8	60-115	NA	NA	
Pentachlorophenol	0.121	0.050	0.0070	mg/kg	0.167	NA	72.4	50-120	NA	NA	
Picloram	0.0565	0.050	0.011	mg/kg	0.167	NA	33.8	30-100	NA	NA	
Triclopyr	0.124	0.050	0.0060	mg/kg	0.167	NA	74.0	65-120	NA	NA	
Surrogate: D.C.A.A.	*0.118*			mg/kg	*0.167*	*NA*	*70.8*	*50-125*			

Laboratory Control Sample Duplicate (B9I0428-BSD1)

Prepared: 09/21/09 Analyzed: 09/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.122	0.050	0.0090	mg/kg	0.164	NA	74.4	60-125	0.464	25	
2,4,5-T.P.	0.118	0.050	0.0070	mg/kg	0.164	NA	71.8	65-125	5.27	25	
2,4-D	0.121	0.050	0.012	mg/kg	0.164	NA	73.6	60-125	6.81	25	
2,4-D.B.	0.124	0.050	0.011	mg/kg	0.164	NA	75.8	70-130	7.12	25	
Bentazon	0.121	0.050	0.0090	mg/kg	0.164	NA	74.0	65-125	10.5	25	
Dicamba	0.111	0.050	0.0080	mg/kg	0.164	NA	68.0	60-120	1.69	25	
Dinoseb	0.0907	0.050	0.0050	mg/kg	0.164	NA	55.4	30-120	11.1	25	
M.C.P.A.	0.108	0.050	0.014	mg/kg	0.164	NA	65.8	60-115	3.49	25	
Pentachlorophenol	0.113	0.050	0.0070	mg/kg	0.164	NA	68.8	50-120	7.08	25	
Picloram	0.0681	0.050	0.011	mg/kg	0.164	NA	41.6	30-100	18.7	25	
Triclopyr	0.117	0.050	0.0060	mg/kg	0.164	NA	71.6	65-120	5.28	25	

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BRAUN INTERTEC

11001 Hampshire Ave. S.
Minneapolis, MN 55438
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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0428 - EPA 3545

Laboratory Control Sample Duplicate (B9I0428-BSD1)

Prepared: 09/21/09 Analyzed: 09/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: D.C.A.A.	*0.112*			mg/kg	*0.164*	*NA*	*68.4*	*50-125*			

Matrix Spike (B9I0428-MS1)

Source: 0904966-01 Prepared: 09/21/09 Analyzed: 09/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.126	0.058	0.010	mg/kg dry	0.190	ND	66.4	30-130	NA	NA	
2,4,5-T.P.	0.132	0.058	0.0081	mg/kg dry	0.190	ND	69.6	40-130	NA	NA	
2,4-D	0.116	0.058	0.014	mg/kg dry	0.190	ND	61.2	30-125	NA	NA	
2,4-D.B.	0.142	0.058	0.013	mg/kg dry	0.190	ND	75.0	70-130	NA	NA	
Bentazon	0.135	0.058	0.010	mg/kg dry	0.190	ND	71.0	65-125	NA	NA	
Dicamba	0.123	0.058	0.0093	mg/kg dry	0.190	ND	64.6	30-120	NA	NA	
Dinoseb	0.0854	0.058	0.0058	mg/kg dry	0.190	ND	45.0	30-120	NA	NA	
M.C.P.A.	0.127	0.058	0.016	mg/kg dry	0.190	ND	66.8	30-120	NA	NA	
Pentachlorophenol	0.132	0.058	0.0081	mg/kg dry	0.190	ND	69.8	50-120	NA	NA	
Picloram	<0.058	0.058	0.013	mg/kg dry	0.190	ND	9.20	30-100	NA	NA	
Triclopyr	0.128	0.058	0.0070	mg/kg dry	0.190	ND	67.6	30-120	NA	NA	
Surrogate: D.C.A.A.	*0.148*			mg/kg dry	*0.190*	*NA*	*78.2*	*50-125*			

Matrix Spike (B9I0428-MS2)

Source: 0904980-06 Prepared: 09/21/09 Analyzed: 09/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.104	0.060	0.011	mg/kg dry	0.200	ND	51.8	30-130	NA	NA	
2,4,5-T.P.	0.130	0.060	0.0084	mg/kg dry	0.200	ND	65.0	40-130	NA	NA	
2,4-D	0.113	0.060	0.014	mg/kg dry	0.200	ND	56.4	30-125	NA	NA	
2,4-D.B.	0.147	0.060	0.013	mg/kg dry	0.200	ND	73.4	70-130	NA	NA	
Bentazon	0.223	0.060	0.011	mg/kg dry	0.200	ND	112	65-125	NA	NA	
Dicamba	0.114	0.060	0.0096	mg/kg dry	0.200	ND	56.8	30-120	NA	NA	
Dinoseb	0.104	0.060	0.0060	mg/kg dry	0.200	ND	52.2	30-120	NA	NA	
M.C.P.A.	0.125	0.060	0.017	mg/kg dry	0.200	ND	62.6	30-120	NA	NA	
Pentachlorophenol	0.133	0.060	0.0084	mg/kg dry	0.200	ND	66.4	50-120	NA	NA	
Picloram	<0.060	0.060	0.013	mg/kg dry	0.200	ND	NA	30-100	NA	NA	
Triclopyr	0.128	0.060	0.0072	mg/kg dry	0.200	ND	64.0	30-120	NA	NA	
Surrogate: D.C.A.A.	*0.138*			mg/kg dry	*0.200*	*NA*	*68.8*	*50-125*			

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UMP018821

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0428 - EPA 3545

Matrix Spike Duplicate (B9I0428-MSD1)

Source: 0904966-01 Prepared: 09/21/09 Analyzed: 09/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.145	0.058	0.010	mg/kg dry	0.193	ND	75.0	30-130	13.7	25	
2,4,5-T.P.	0.133	0.058	0.0081	mg/kg dry	0.193	ND	69.0	40-130	0.650	25	
2,4-D	0.125	0.058	0.014	mg/kg dry	0.193	ND	64.8	30-125	7.23	25	
2,4-D.B.	0.145	0.058	0.013	mg/kg dry	0.193	ND	75.0	70-130	1.52	25	
Bentazon	0.137	0.058	0.010	mg/kg dry	0.193	ND	71.2	65-125	1.80	25	
Dicamba	0.134	0.058	0.0093	mg/kg dry	0.193	ND	69.4	30-120	8.68	25	
Dinoseb	0.0983	0.058	0.0058	mg/kg dry	0.193	ND	51.0	30-120	14.0	25	
M.C.P.A.	0.130	0.058	0.016	mg/kg dry	0.193	ND	67.6	30-120	2.71	25	
Pentachlorophenol	0.131	0.058	0.0081	mg/kg dry	0.193	ND	68.2	50-120	0.803	25	
Picloram	<0.058	0.058	0.013	mg/kg dry	0.193	ND	7.20	30-100	22.9	25	
Triclopyr	0.136	0.058	0.0070	mg/kg dry	0.193	ND	70.4	30-120	5.57	25	
Surrogate: D.C.A.A.	*0.148*			mg/kg dry	*0.193*	*NA*	*76.6*	*50-125*			

Matrix Spike Duplicate (B9I0428-MSD2)

Source: 0904980-06 Prepared: 09/21/09 Analyzed: 09/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.123	0.060	0.011	mg/kg dry	0.201	ND	61.2	30-130	17.1	25	
2,4,5-T.P.	0.131	0.060	0.0084	mg/kg dry	0.201	ND	65.2	40-130	0.772	25	
2,4-D	0.127	0.060	0.014	mg/kg dry	0.201	ND	63.4	30-125	12.1	25	
2,4-D.B.	0.153	0.060	0.013	mg/kg dry	0.201	ND	76.4	70-130	4.47	25	
Bentazon	0.204	0.060	0.011	mg/kg dry	0.201	ND	102	65-125	8.72	25	
Dicamba	0.121	0.060	0.0096	mg/kg dry	0.201	ND	60.2	30-120	6.28	25	
Dinoseb	0.109	0.060	0.0060	mg/kg dry	0.201	ND	54.2	30-120	4.22	25	
M.C.P.A.	0.142	0.060	0.017	mg/kg dry	0.201	ND	70.6	30-120	12.5	25	
Pentachlorophenol	0.135	0.060	0.0084	mg/kg dry	0.201	ND	67.2	50-120	1.66	25	
Picloram	<0.060	0.060	0.013	mg/kg dry	0.201	ND	NA	30-100	NA	25	
Triclopyr	0.144	0.060	0.0072	mg/kg dry	0.201	ND	71.6	30-120	11.7	25	
Surrogate: D.C.A.A.	*0.144*			mg/kg dry	*0.201*	*NA*	*71.8*	*50-125*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

0904980

BARR *Chain of Custody*
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number: 23/19-0B05.07 SIRI 300
Project Name: UMA SSI/RI
Sample Origination State MN (use two letter postal state abbreviation)
COC Number: № 29001

Number of Containers/Preservative — Water: VOCs (HCl) #1; SVOCs (unpreserved) #2; Dissolved Metals (HNO_3); Total Metals (HNO_3); General (unpreserved) #3; Diesel Range Organics (HCl); Nutrients (H_2SO_4) #4. Soil: VOCs (tared MeOH) #1; GRO, BTEX (tared MeOH) #1; DRO (tared unpreserved); Metals (unpreserved); SVOCs (unpreserved) #2; % Solids (plastic vial, unpres.)

COC 1 of 2

Project Managers: JME/JSA
Project QC Contact: KJN/AAN
Sampled by: KCB
Laboratory: Braun

	Location	Start Depth	Stop Depth	Depth Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	QC	Total Number Of Containers	
1.	SOC5-TT7-4'	4	4	ft	09/08/2009	1200		X	X			3	Analyze OC-Pest + List 1+2 Pest
2.	SOC5-TT9-13'	13	13	ft	09/08/2009	1400		X	X			3	
3.	SOC5-TT13-3'	3	3		09/10/2009	1200		X	X			3	
4.	SOC5-TT18-4'	4	4		09/09/2009	1000		X	X			3	
5.	SOC5-TT25-5'	5	5		09/09/2009	1200		X	X			3	
6.	SOC5-SS8-0.5'	0.5	0.5		09/10/2009	1300		X	X			6	Analyze OC-Pest + List 1+2 Pest (MS/MSD vol)
7.	SOC5-SS10-0.5'	0.5	0.5			1500		X	X			3	Analyze OC-Pest + List 1+2 Pest
8.	SOC5-M1	—	—			—		X	X			3	
9.	M2	—	—			—		X	X			3	
10.	SOC4-TT9-6'	6	6			1430		X	X			3	

Common Parameter/Container - Preservation Key
#1 - Volatile Organics = BTEX, GRO, TPH, 8260 Full List
#2 - Semivolatile Organics = PAHs, PCP, Dioxins, 8270 Full List, Herbicide/Pesticide/PCBs
#3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
#4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
[signature]	(Y) N	9/11/09	1215	[signature]	9/11/09	1336
Relinquished By:	Y N	Date	Time	Received by:	Date	Time

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other:
Air Bill Number: COOLER 1: 2.6°C #2: 3.7°C +CS

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

H:\RL GIS\TDF\RMS\Chain Of Custody Form 2009 RLG Rev. 09/01/09

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0904980
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

0904980

Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number: 23/19-0B05.07 SIRI 300

Project Name: UMA SSI/RI

Sample Origination State MN (use two letter postal state abbreviation)

COC Number: № 29127

COC 2 of 2

Project Manager: JME/JSA

Project QC Contact: KJN/AAN

Sampled by: KEB/KJN

Laboratory: Braun

Number of Containers/Preservative

Location	Start Depth	Stop Depth	Depth Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Water: VOCs (HCl) #1	Water: SVOCs (unpreserved) #2	Water: Dissolved Metals (HNO_3)	Water: Total Metals (HNO_3)	Water: General (unpreserved) #3	Water: Diesel Range Organics (HCl)	Water: Nutrients (H_2SO_4) #4	Soil: VOCs (tared MeOH) #1	Soil: GRO, BTEX (tared MeOH) #1	Soil: DRO (tared unpreserved)	Soil: Metals (unpreserved)	Soil: SVOCs (unpreserved) #2	Soil: % Solids (plastic vial, unpres.)	Total Number Of Containers	
1. FB-2	—	—	—	09/10/2009	1730	X		X				X												6	Analyze List 1+2 Pest + OC-Pest
2.																									
3.																									
4.																									
5.																									
6.																									
7.																									
8.																									
9.																									
10.																									

Common Parameter/Container - Preservation Key

#1 - Volatile Organics = BTEX, GRO, TPH, 8260 Full List
#2 - Semivolatile Organics = PAHs, PCP, Dioxins, 8270 Full List, Herbicide/Pesticide/PCBs
#3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
#4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
[signature]	(Y) N	9/11/09	1215	[signature]	9/11/09	1336
Relinquished By:	On Ice? Y N	Date	Time	Received by:	Date	Time

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other: _____ Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

H:\RLG\STDF\DRMS\Chain Of Custody Form 2009 RLG Rev. 09\01\09

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Braun Intertec Corporation
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Phone: 952.995.2000
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Web: braunintertec.com

Ms. Kelly Neppl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

October 20, 2009

Work Order #: 0905025
(Revised)

RE: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300

Dear Kelly Neppl:

Braun Intertec Corporation received samples for the project identified above on September 14, 2009. Analytical results are summarized in the following report.

All routine quality assurance procedures were followed, unless otherwise noted.

Analytical results are reported on an "as received" basis unless otherwise noted. Where possible, the samples will be retained by the laboratory for 14 days following issuance of the initial final report. The samples will be disposed of or returned at that time. Arrangements can be made for extended storage by contacting me at this time.

We appreciate your decision to use Braun Intertec Corporation for this project. We are committed to being your vendor of choice to meet your analytical chemistry needs.

If you have any questions please contact me at the above phone number.

Sincerely,

Steven J. Albrecht

Steven J. Albrecht
Associate Principal

Certification/Accreditation Numbers

Minnesota Department of Health: 027-053-117 Wisconsin DNR: 999462640

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0905025
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

How to Use this Report

In order to get the most out of the information presented in this report please refer to the following explanations as to how the data in this report is tied together and how some of the terms are defined.

Qualifiers and Abbreviations are defined in the following section. You will find these codes used throughout the report in headers and in note sections to designate a unique fact about the data to which they are associated.

The Case Narrative gives a "story" about the analysis and results. Here you will find greater elaboration on relevant qualifiers as well as an explanation of anything of particular note in the data. This is a discussion of the data in terms of quality control and chemistry. It is a summary of any deviations that could affect the usefulness of the data. This is not an interpretation as to how this information relates to regulatory compliance, toxicity, or hazardous characterization. These items are beyond the scope of this report.

The Sample Summary provides detail on sample receipt. The association between Client sample ID and the Laboratory sample ID are defined here; this information is valuable to have when discussing results with your project manager. Sample collection and receipt dates and times are provided here as well. General notes regarding the work order are also documented here. This is a mini "case narrative" that describes any anomalies regarding the condition of the samples upon arrival to the laboratory or special circumstances regarding the work order.

The Conditions Upon Receipt summarizes the results of specific checks that have been performed at sample receipt. This includes items like custody documentation, sample condition, and temperature at receipt. Each "cooler" is identified and the conditions associated with that cooler are documented. A "cooler" is defined as the larger container used to transport the individual samples. In most cases this is a standard recreational cooler but it can be a box, plastic bag, or other container.

The laboratory results are summarized in the following sections. Data is broken down into major categories for convenience. An example of such a category would be "Total Petroleum Hydrocarbons." Here you would find data that references the testing of such parameters as diesel range organics and gasoline range organics. Other categories are similarly mapped. The batch number is associated with each sample. This is important to evaluate Quality Control (QC) data. Surrogate results samples are provided with each sample. Laboratory control limits are provided for comparison (see below). The reference method is also identified. If a method is denoted with an "M" (e.g. EPA 1234(M)) this means that it has been modified. An explanation of the modification will be found in the Case Narrative. A result is given with appropriate units. If a soil sample is dry-weight corrected then the word "dry" will appear next to the units. If the word "dry" does not appear then the result is "as received."

The Method Reporting Limit (MRL) and Method Detection Limit (MDL) are provided. It is important to understand these terms. The MRL is a level that has been empirically verified to provide reliable quantitation of results. Results that are equal to or greater than this value will show up in bold. They are considered "hits." The MDL is a statistically derived number that indicates an estimated concentration at which an analyte can be detected above the noise level. If a result is less than the MRL but greater than the MDL then it is considered an estimate. Such a result is reported with a "J" flag denoting that it has been detected but that the result is an estimate.

In this specific report format, the majority of the analyses are reported without estimated concentrations less than the MRL. For these analyses, if a result is less than the MRL, the result is given as less than the MRL (e.g. if the MRL = 10 then a less than result would be given as "<10"). However, for the Organochlorine Pesticides in water and MDA List 1 Pesticides in water analyses, if a result is less than the MRL but greater than the MDL, then an estimated result is reported with a "J" flag. If a result for either of these two analyses is less than the MDL, then the result is given as less than the MDL.

The Quality Control (QC) samples are documented in the following section. Here you will find the preparation batches associated with each sample from the results section. The sample preparation method is also defined here. Accuracy is represented here in terms of a percent recovery as compared to a known value. Precision is represented as a relative percent difference between two duplicate sample aliquots. The laboratory control limits are provided as a means to evaluate the quality control data. If the result falls outside the laboratory control limits this simply means that it is outside what is typical for the laboratory and is noted accordingly. This does not mean that the data is invalid. Laboratory control limits are generally tighter than most program limits. This is a very important distinction. How the data is ultimately used determines its validity. Program requirements are defined in the Quality Assurance Project Plan (QAPP) governing the project. If your project manager is aware of your specific program requirements then a note will be made in the case narrative if the data fails to meet any of these requirements.

The last section contains copies of important documents and/or instrument printouts relevant to the report. This includes the chain of custody. It also may include items like chromatograms or spectra.

Please note that this report is paginated and must be reproduced in its entirety.

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0905025
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Qualifiers and Abbreviations

qn	The spike recovery is outside of laboratory control limits for the matrix spike (MS) and/or the matrix spike duplicate (MSD).
J	Detected but below the Method Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
go	The laboratory control sample recovery is outside of laboratory control limits.
COC	Chain of Custody
dry	Sample results reported on a dry weight basis
MDL	Method Detection Limit
MRL	Method Reporting Limit
NA	Not Applicable
ND	Analyte NOT DETECTED
NR	Not Reported
%Rec	Percent Recovery
RPD	Relative Percent Difference
VOC	Volatile Organic Compound

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FB-1 (Groundwater)	0905025-01	Water	09/11/09 12:00	09/14/09 11:20
FB-2 (Geoprobe)	0905025-02	Water	09/11/09 12:05	09/14/09 11:20

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Conditions Upon Receipt

Cooler: Cooler 1

Temperature:	2.8 °C	**COC Included:**	Yes	**Custody Seals Used:**	No
Temperature Blank:	Yes	**COC Complete:**	Yes	**Custody Seals Intact:**	NA
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	No
Preservation Confirmed:	No	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

Cooler: Cooler 2

Temperature:	1.6 °C	**COC Included:**	Yes	**Custody Seals Used:**	No
Temperature Blank:	Yes	**COC Complete:**	Yes	**Custody Seals Intact:**	NA
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	No
Preservation Confirmed:	No	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0905025
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

FB-1 (Groundwater)

0905025-01 (Water)

9/11/09 12:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Total Kjeldahl Nitrogen	<0.50	0.50	0.17	mg/L	B9I0619	9/29/09 9:44	10/2/09 14:09	EPA 351.2	
Nitrate + Nitrite as N	<0.020	0.020	0.0069	mg/L	B9I0294	9/15/09 12:39	9/15/09 15:09	SM4500 NO3F	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.017	0.27	0.017	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:26	EPA 8081A	
4,4'-DDE	<0.017	0.27	0.017	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:26	EPA 8081A	go
4,4'-DDT	<0.021	0.27	0.021	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:26	EPA 8081A	go
Aldrin	<0.019	0.27	0.019	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:26	EPA 8081A	
alpha-BHC	<0.022	0.27	0.022	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:26	EPA 8081A	
alpha-Chlordane	<0.017	0.27	0.017	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:26	EPA 8081A	
beta-BHC	<0.017	0.27	0.017	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:26	EPA 8081A	
delta-BHC	<0.015	0.27	0.015	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:26	EPA 8081A	
Dieldrin	<0.025	0.27	0.025	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:26	EPA 8081A	
Endosulfan I	<0.023	0.27	0.023	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:26	EPA 8081A	
Endosulfan II	<0.020	0.27	0.020	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:26	EPA 8081A	
Endosulfan Sulfate	<0.021	0.27	0.021	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:26	EPA 8081A	
Endrin	<0.021	0.27	0.021	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:26	EPA 8081A	
Endrin Aldehyde	<0.043	0.27	0.043	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:26	EPA 8081A	
Endrin Ketone	<0.020	0.27	0.020	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:26	EPA 8081A	
gamma-BHC	<0.021	0.27	0.021	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:26	EPA 8081A	
gamma-Chlordane	<0.045	0.27	0.045	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:26	EPA 8081A	
Heptachlor	<0.019	0.27	0.019	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:26	EPA 8081A	
Heptachlor Epoxide	<0.041	0.27	0.041	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:26	EPA 8081A	
Methoxychlor	<0.028	0.27	0.028	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:26	EPA 8081A	
Toxaphene	<1.1	5.3	1.1	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:26	EPA 8081A	
Surr: DBC	*77.1 %*	*Limits: 40-130%*			*B9I0270*	*9/14/09 17:41*	*9/17/09 14:26*	*EPA 8081A*	
Surr: TCMX	*87.5 %*	*Limits: 40-120%*			*B9I0270*	*9/14/09 17:41*	*9/17/09 14:26*	*EPA 8081A*	

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11001 Hampshire Ave. S.
Minneapolis, MN 55438
952.995.2000 Phone
952.995.2020 Fax

Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0905025
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

FB-1 (Groundwater)

0905025-01 (Water)

9/11/09 12:00

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.26	0.53	0.26	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:38	EPA 8270C	
Alachlor	<0.20	0.53	0.20	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:38	EPA 8270C	
Atrazine	<0.25	0.53	0.25	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:38	EPA 8270C	
Chlorpyrifos	<0.35	0.53	0.35	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:38	EPA 8270C	
Cyanazine	<0.51	0.53	0.51	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:38	EPA 8270C	
Deisopropylatrazine	<0.27	0.53	0.27	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:38	EPA 8270C	
Desethylatrazine	<0.31	0.53	0.31	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:38	EPA 8270C	
Dimethenamid	<0.25	0.53	0.25	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:38	EPA 8270C	
EPTC	<0.23	0.53	0.23	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:38	EPA 8270C	
Ethalfluralin	<0.49	0.53	0.49	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:38	EPA 8270C	
Fonofos	<0.31	0.53	0.31	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:38	EPA 8270C	
Metolachlor	<0.29	0.53	0.29	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:38	EPA 8270C	
Metribuzin	<0.37	0.53	0.37	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:38	EPA 8270C	
Pendimethalin	<0.26	0.53	0.26	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:38	EPA 8270C	
Phorate	<0.62	1.1	0.62	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:38	EPA 8270C	
Prometon	<0.31	0.53	0.31	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:38	EPA 8270C	
Propachlor	<0.15	0.53	0.15	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:38	EPA 8270C	
Propazine	<0.22	0.53	0.22	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:38	EPA 8270C	
Simazine	<0.33	0.53	0.33	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:38	EPA 8270C	
Terbufos	<0.57	1.1	0.57	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:38	EPA 8270C	
Triallate	<0.35	0.53	0.35	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:38	EPA 8270C	
Trifluralin	<0.23	0.53	0.23	ug/L	B9I0274	9/15/09 6:17	9/16/09 15:38	EPA 8270C	
Surr: Atrazine-d5	*85.5 %*	*Limits: 50-120%*			*B9I0274*	*9/15/09 6:17*	*9/16/09 15:38*	*EPA 8270C*	
Surr: Diazinon-d10	*83.1 %*	*Limits: 50-120%*			*B9I0274*	*9/15/09 6:17*	*9/16/09 15:38*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0905025
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

FB-1 (Groundwater)

0905025-01 (Water)

9/11/09 12:00

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.50	0.50	0.31	ug/L	B9I0295	9/15/09 12:53	9/18/09 11:21	EPA 8270C	
2,4,5-T.P.	<0.50	0.50	0.28	ug/L	B9I0295	9/15/09 12:53	9/18/09 11:21	EPA 8270C	
2,4-D	<0.50	0.50	0.26	ug/L	B9I0295	9/15/09 12:53	9/18/09 11:21	EPA 8270C	
2,4-D.B.	<0.50	0.50	0.15	ug/L	B9I0295	9/15/09 12:53	9/18/09 11:21	EPA 8270C	qn
Bentazon	<0.50	0.50	0.22	ug/L	B9I0295	9/15/09 12:53	9/18/09 11:21	EPA 8270C	qn
Dicamba	<0.50	0.50	0.38	ug/L	B9I0295	9/15/09 12:53	9/18/09 11:21	EPA 8270C	
Dinoseb	<0.50	0.50	0.34	ug/L	B9I0295	9/15/09 12:53	9/18/09 11:21	EPA 8270C	
M.C.P.A.	<0.30	0.30	0.29	ug/L	B9I0295	9/15/09 12:53	9/18/09 11:21	EPA 8270C	
Pentachlorophenol	<0.50	0.50	0.39	ug/L	B9I0295	9/15/09 12:53	9/18/09 11:21	EPA 8270C	go, qn
Picloram	<0.50	0.50	0.25	ug/L	B9I0295	9/15/09 12:53	9/18/09 11:21	EPA 8270C	
Triclopyr	<0.50	0.50	0.41	ug/L	B9I0295	9/15/09 12:53	9/18/09 11:21	EPA 8270C	qn
Surr: D.C.A.A.	*73.8 %*	*Limits: 65-130%*			*B9I0295*	*9/15/09 12:53*	*9/18/09 11:21*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0905025
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

FB-2 (Geoprobe)

0905025-02 (Water)

9/11/09 12:05

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.016	0.26	0.016	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:52	EPA 8081A	
4,4'-DDE	<0.016	0.26	0.016	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:52	EPA 8081A	go
4,4'-DDT	<0.020	0.26	0.020	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:52	EPA 8081A	go
Aldrin	<0.018	0.26	0.018	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:52	EPA 8081A	
alpha-BHC	<0.021	0.26	0.021	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:52	EPA 8081A	
alpha-Chlordane	<0.016	0.26	0.016	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:52	EPA 8081A	
beta-BHC	<0.016	0.26	0.016	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:52	EPA 8081A	
delta-BHC	<0.014	0.26	0.014	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:52	EPA 8081A	
Dieldrin	<0.025	0.26	0.025	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:52	EPA 8081A	
Endosulfan I	<0.022	0.26	0.022	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:52	EPA 8081A	
Endosulfan II	<0.020	0.26	0.020	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:52	EPA 8081A	
Endosulfan Sulfate	<0.020	0.26	0.020	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:52	EPA 8081A	
Endrin	<0.021	0.26	0.021	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:52	EPA 8081A	
Endrin Aldehyde	<0.041	0.26	0.041	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:52	EPA 8081A	
Endrin Ketone	<0.019	0.26	0.019	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:52	EPA 8081A	
gamma-BHC	<0.021	0.26	0.021	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:52	EPA 8081A	
gamma-Chlordane	<0.044	0.26	0.044	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:52	EPA 8081A	
Heptachlor	<0.018	0.26	0.018	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:52	EPA 8081A	
Heptachlor Epoxide	<0.039	0.26	0.039	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:52	EPA 8081A	
Methoxychlor	<0.027	0.26	0.027	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:52	EPA 8081A	
Toxaphene	<1.0	5.2	1.0	ug/L	B9I0270	9/14/09 17:41	9/17/09 14:52	EPA 8081A	
Surr: DBC	*76.7 %*	*Limits: 40-130%*			*B9I0270*	*9/14/09 17:41*	*9/17/09 14:52*	*EPA 8081A*	
Surr: TCMX	*76.2 %*	*Limits: 40-120%*			*B9I0270*	*9/14/09 17:41*	*9/17/09 14:52*	*EPA 8081A*	

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.25	0.50	0.25	ug/L	B9I0274	9/15/09 6:17	9/16/09 16:03	EPA 8270C	
Alachlor	<0.19	0.50	0.19	ug/L	B9I0274	9/15/09 6:17	9/16/09 16:03	EPA 8270C	
Atrazine	<0.24	0.50	0.24	ug/L	B9I0274	9/15/09 6:17	9/16/09 16:03	EPA 8270C	
Chlorpyrifos	<0.34	0.50	0.34	ug/L	B9I0274	9/15/09 6:17	9/16/09 16:03	EPA 8270C	
Cyanazine	<0.48	0.50	0.48	ug/L	B9I0274	9/15/09 6:17	9/16/09 16:03	EPA 8270C	
Deisopropylatrazine	<0.26	0.50	0.26	ug/L	B9I0274	9/15/09 6:17	9/16/09 16:03	EPA 8270C	
Desethylatrazine	<0.29	0.50	0.29	ug/L	B9I0274	9/15/09 6:17	9/16/09 16:03	EPA 8270C	
Dimethenamid	<0.24	0.50	0.24	ug/L	B9I0274	9/15/09 6:17	9/16/09 16:03	EPA 8270C	
EPTC	<0.22	0.50	0.22	ug/L	B9I0274	9/15/09 6:17	9/16/09 16:03	EPA 8270C	
Ethalfluralin	<0.47	0.50	0.47	ug/L	B9I0274	9/15/09 6:17	9/16/09 16:03	EPA 8270C	
Fonofos	<0.30	0.50	0.30	ug/L	B9I0274	9/15/09 6:17	9/16/09 16:03	EPA 8270C	
Metolachlor	<0.28	0.50	0.28	ug/L	B9I0274	9/15/09 6:17	9/16/09 16:03	EPA 8270C	
Metribuzin	<0.35	0.50	0.35	ug/L	B9I0274	9/15/09 6:17	9/16/09 16:03	EPA 8270C	
Pendimethalin	<0.25	0.50	0.25	ug/L	B9I0274	9/15/09 6:17	9/16/09 16:03	EPA 8270C	

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UMP018833

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11001 Hampshire Ave. S.
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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

FB-2 (Geoprobe)

0905025-02 (Water)

9/11/09 12:05

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Phorate	<0.58	1.0	0.58	ug/L	B9I0274	9/15/09 6:17	9/16/09 16:03	EPA 8270C	
Prometon	<0.29	0.50	0.29	ug/L	B9I0274	9/15/09 6:17	9/16/09 16:03	EPA 8270C	
Propachlor	<0.14	0.50	0.14	ug/L	B9I0274	9/15/09 6:17	9/16/09 16:03	EPA 8270C	
Propazine	<0.21	0.50	0.21	ug/L	B9I0274	9/15/09 6:17	9/16/09 16:03	EPA 8270C	
Simazine	<0.32	0.50	0.32	ug/L	B9I0274	9/15/09 6:17	9/16/09 16:03	EPA 8270C	
Terbufos	<0.54	1.0	0.54	ug/L	B9I0274	9/15/09 6:17	9/16/09 16:03	EPA 8270C	
Triallate	<0.34	0.50	0.34	ug/L	B9I0274	9/15/09 6:17	9/16/09 16:03	EPA 8270C	
Trifluralin	<0.21	0.50	0.21	ug/L	B9I0274	9/15/09 6:17	9/16/09 16:03	EPA 8270C	
Surr: Atrazine-d5	*86.1 %*	*Limits: 50-120%*			*B9I0274*	*9/15/09 6:17*	*9/16/09 16:03*	*EPA 8270C*	
Surr: Diazinon-d10	*88.4 %*	*Limits: 50-120%*			*B9I0274*	*9/15/09 6:17*	*9/16/09 16:03*	*EPA 8270C*	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.50	0.50	0.31	ug/L	B9I0295	9/15/09 12:53	9/18/09 11:46	EPA 8270C	
2,4,5-T.P.	<0.50	0.50	0.28	ug/L	B9I0295	9/15/09 12:53	9/18/09 11:46	EPA 8270C	
2,4-D	<0.50	0.50	0.26	ug/L	B9I0295	9/15/09 12:53	9/18/09 11:46	EPA 8270C	
2,4-D.B.	<0.50	0.50	0.15	ug/L	B9I0295	9/15/09 12:53	9/18/09 11:46	EPA 8270C	qn
Bentazon	<0.50	0.50	0.22	ug/L	B9I0295	9/15/09 12:53	9/18/09 11:46	EPA 8270C	qn
Dicamba	<0.50	0.50	0.38	ug/L	B9I0295	9/15/09 12:53	9/18/09 11:46	EPA 8270C	
Dinoseb	<0.50	0.50	0.34	ug/L	B9I0295	9/15/09 12:53	9/18/09 11:46	EPA 8270C	
M.C.P.A.	<0.30	0.30	0.29	ug/L	B9I0295	9/15/09 12:53	9/18/09 11:46	EPA 8270C	
Pentachlorophenol	<0.50	0.50	0.39	ug/L	B9I0295	9/15/09 12:53	9/18/09 11:46	EPA 8270C	go, qn
Picloram	<0.50	0.50	0.25	ug/L	B9I0295	9/15/09 12:53	9/18/09 11:46	EPA 8270C	
Triclopyr	<0.50	0.50	0.41	ug/L	B9I0295	9/15/09 12:53	9/18/09 11:46	EPA 8270C	qn
Surr: D.C.A.A.	*77.4 %*	*Limits: 65-130%*			*B9I0295*	*9/15/09 12:53*	*9/18/09 11:46*	*EPA 8270C*	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Classical Chemistry Parameters - Quality Control

Batch B9I0294 - NO PREP

Method Blank (B9I0294-BLK1)

Prepared & Analyzed: 09/15/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	<0.020	0.020	0.0069	mg/L	NA	NA	NA	NA	NA	NA	

Laboratory Control Sample (B9I0294-BS1)

Prepared & Analyzed: 09/15/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	0.543	0.020	0.0069	mg/L	0.500	NA	109	80-120	NA	NA	

Laboratory Control Sample Duplicate (B9I0294-BSD1)

Prepared & Analyzed: 09/15/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	0.542	0.020	0.0069	mg/L	0.500	NA	108	80-120	0.203	20	

Duplicate (B9I0294-DUP1)

Source: 0905050-01 Prepared & Analyzed: 09/15/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	14.4	0.40	0.14	mg/L	NA	15.2	NA	NA	5.20	20	

Matrix Spike (B9I0294-MS1)

Source: 0905025-01 Prepared & Analyzed: 09/15/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	0.532	0.020	0.0069	mg/L	0.500	0.0141	104	75-125	NA	NA	

Matrix Spike Duplicate (B9I0294-MSD1)

Source: 0905025-01 Prepared & Analyzed: 09/15/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	0.559	0.020	0.0069	mg/L	0.500	0.0141	109	75-125	4.96	20	

Batch B9I0619 - EPA 351.2

Method Blank (B9I0619-BLK1)

Prepared: 09/29/09 Analyzed: 10/02/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	<0.50	0.50	0.17	mg/L	NA	NA	NA	NA	NA	NA	

Laboratory Control Sample (B9I0619-BS1)

Prepared: 09/29/09 Analyzed: 10/02/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	2.53	0.50	0.17	mg/L	2.50	NA	101	90-110	NA	NA	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0905025
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Classical Chemistry Parameters - Quality Control

Batch B9I0619 - EPA 351.2

Laboratory Control Sample Duplicate (B9I0619-BSD1) Prepared: 09/29/09 Analyzed: 10/02/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	2.57	0.50	0.17	mg/L	2.50	NA	103	90-110	1.41	20	

Matrix Spike (B9I0619-MS1) **Source: 0905320-01** Prepared: 09/29/09 Analyzed: 10/02/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	3.77	0.50	0.17	mg/L	2.50	1.25	100	90-110	NA	NA	

Matrix Spike Duplicate (B9I0619-MSD1) **Source: 0905320-01** Prepared: 09/29/09 Analyzed: 10/02/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	3.63	0.50	0.17	mg/L	2.50	1.25	94.9	90-110	3.79	20	

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0270 - EPA 3510C

Method Blank (B9I0270-BLK1)

Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
4,4'-DDE	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
4,4'-DDT	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
Aldrin	<0.018	0.25	0.018	ug/L	NA	NA	NA	NA	NA	NA	
alpha-BHC	<0.021	0.25	0.021	ug/L	NA	NA	NA	NA	NA	NA	
alpha-Chlordane	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
beta-BHC	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
delta-BHC	<0.014	0.25	0.014	ug/L	NA	NA	NA	NA	NA	NA	
Dieldrin	<0.024	0.25	0.024	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan I	<0.021	0.25	0.021	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan II	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan Sulfate	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
Endrin	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
Endrin Aldehyde	<0.040	0.25	0.040	ug/L	NA	NA	NA	NA	NA	NA	
Endrin Ketone	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
gamma-BHC	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
gamma-Chlordane	<0.042	0.25	0.042	ug/L	NA	NA	NA	NA	NA	NA	
Heptachlor	<0.018	0.25	0.018	ug/L	NA	NA	NA	NA	NA	NA	
Heptachlor Epoxide	<0.038	0.25	0.038	ug/L	NA	NA	NA	NA	NA	NA	
Methoxychlor	<0.026	0.25	0.026	ug/L	NA	NA	NA	NA	NA	NA	
Toxaphene	<1.0	5.0	1.0	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: DBC	*2.41*			ug/L	*2.50*	*NA*	*96.2*	*40-130*			
Surrogate: TCMX	*1.77*			ug/L	*2.50*	*NA*	*71.0*	*40-120*			

Laboratory Control Sample (B9I0270-BS2)

Prepared: 09/14/09 Analyzed: 09/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.20	0.25	0.016	ug/L	2.50	NA	88.0	80-120	NA	NA	
4,4'-DDE	1.95	0.25	0.016	ug/L	2.50	NA	78.0	80-120	NA	NA	
4,4'-DDT	1.86	0.25	0.020	ug/L	2.50	NA	74.5	80-120	NA	NA	
Aldrin	1.84	0.25	0.018	ug/L	2.50	NA	73.7	60-110	NA	NA	
alpha-BHC	2.22	0.25	0.021	ug/L	2.50	NA	88.6	70-120	NA	NA	
alpha-Chlordane	2.11	0.25	0.016	ug/L	2.50	NA	84.2	80-120	NA	NA	
beta-BHC	2.48	0.25	0.016	ug/L	2.50	NA	99.2	80-120	NA	NA	
delta-BHC	2.45	0.25	0.014	ug/L	2.50	NA	98.1	80-120	NA	NA	
Dieldrin	2.29	0.25	0.024	ug/L	2.50	NA	91.5	80-120	NA	NA	
Endosulfan I	2.25	0.25	0.021	ug/L	2.50	NA	89.8	80-120	NA	NA	
Endosulfan II	2.28	0.25	0.019	ug/L	2.50	NA	91.3	80-120	NA	NA	
Endosulfan Sulfate	2.35	0.25	0.019	ug/L	2.50	NA	94.2	80-120	NA	NA	
Endrin	2.33	0.25	0.020	ug/L	2.50	NA	93.0	80-120	NA	NA	
Endrin Aldehyde	2.42	0.25	0.040	ug/L	2.50	NA	96.9	80-120	NA	NA	
Endrin Ketone	2.63	0.25	0.019	ug/L	2.50	NA	105	80-120	NA	NA	
gamma-BHC	2.38	0.25	0.020	ug/L	2.50	NA	95.1	80-120	NA	NA	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0270 - EPA 3510C

Laboratory Control Sample (B9I0270-BS2)

Prepared: 09/14/09 Analyzed: 09/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
gamma-Chlordane	2.18	0.25	0.042	ug/L	2.50	NA	87.2	80-120	NA	NA	
Heptachlor	1.82	0.25	0.018	ug/L	2.50	NA	73.0	60-110	NA	NA	
Heptachlor Epoxide	2.28	0.25	0.038	ug/L	2.50	NA	91.1	80-120	NA	NA	
Methoxychlor	2.08	0.25	0.026	ug/L	2.50	NA	83.3	80-120	NA	NA	
Surrogate: DBC	*2.08*			ug/L	*2.50*	*NA*	*83.1*	*40-130*			
Surrogate: TCMX	*1.64*			ug/L	*2.50*	*NA*	*65.7*	*40-120*			

Laboratory Control Sample Duplicate (B9I0270-BSD2)

Prepared: 09/14/09 Analyzed: 09/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.27	0.25	0.016	ug/L	2.50	NA	90.9	80-120	3.18	25	
4,4'-DDE	2.01	0.25	0.016	ug/L	2.50	NA	80.5	80-120	3.15	25	
4,4'-DDT	1.92	0.25	0.020	ug/L	2.50	NA	76.8	80-120	3.07	25	
Aldrin	1.93	0.25	0.018	ug/L	2.50	NA	77.4	60-110	4.90	25	
alpha-BHC	2.20	0.25	0.021	ug/L	2.50	NA	87.9	70-120	0.843	25	
alpha-Chlordane	2.10	0.25	0.016	ug/L	2.50	NA	84.0	80-120	0.296	25	
beta-BHC	2.43	0.25	0.016	ug/L	2.50	NA	97.1	80-120	2.10	25	
delta-BHC	2.42	0.25	0.014	ug/L	2.50	NA	96.8	80-120	1.27	25	
Dieldrin	2.29	0.25	0.024	ug/L	2.50	NA	91.8	80-120	0.241	25	
Endosulfan I	2.22	0.25	0.021	ug/L	2.50	NA	88.9	80-120	1.08	25	
Endosulfan II	2.27	0.25	0.019	ug/L	2.50	NA	90.7	80-120	0.581	25	
Endosulfan Sulfate	2.30	0.25	0.019	ug/L	2.50	NA	92.0	80-120	2.26	25	
Endrin	2.32	0.25	0.020	ug/L	2.50	NA	92.6	80-120	0.394	25	
Endrin Aldehyde	2.39	0.25	0.040	ug/L	2.50	NA	95.6	80-120	1.36	25	
Endrin Ketone	2.54	0.25	0.019	ug/L	2.50	NA	102	80-120	3.21	25	
gamma-BHC	2.32	0.25	0.020	ug/L	2.50	NA	93.0	80-120	2.23	25	
gamma-Chlordane	2.23	0.25	0.042	ug/L	2.50	NA	89.3	80-120	2.34	25	
Heptachlor	1.87	0.25	0.018	ug/L	2.50	NA	74.8	60-110	2.54	25	
Heptachlor Epoxide	2.24	0.25	0.038	ug/L	2.50	NA	89.7	80-120	1.49	25	
Methoxychlor	2.11	0.25	0.026	ug/L	2.50	NA	84.5	80-120	1.52	25	
Surrogate: DBC	*2.21*			ug/L	*2.50*	*NA*	*88.3*	*40-130*			
Surrogate: TCMX	*1.71*			ug/L	*2.50*	*NA*	*68.3*	*40-120*			

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0270 - EPA 3510C

Matrix Spike (B9I0270-MS1)

Source: 0905025-01 Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.25	0.27	0.017	ug/L	2.66	ND	84.5	50-130	NA	NA	
4,4'-DDE	1.88	0.27	0.017	ug/L	2.66	ND	70.7	50-130	NA	NA	
4,4'-DDT	1.76	0.27	0.021	ug/L	2.66	ND	66.1	50-130	NA	NA	
Aldrin	2.03	0.27	0.019	ug/L	2.66	ND	76.3	50-130	NA	NA	
alpha-Chlordane	2.31	0.27	0.017	ug/L	2.66	ND	86.7	50-130	NA	NA	
beta-BHC	2.68	0.27	0.017	ug/L	2.66	ND	101	50-130	NA	NA	
delta-BHC	2.73	0.27	0.015	ug/L	2.66	ND	103	50-130	NA	NA	
Dieldrin	2.49	0.27	0.025	ug/L	2.66	ND	93.5	50-130	NA	NA	
Endosulfan I	2.46	0.27	0.022	ug/L	2.66	ND	92.5	50-130	NA	NA	
Endosulfan II	2.43	0.27	0.020	ug/L	2.66	ND	91.5	50-130	NA	NA	
Endosulfan Sulfate	2.47	0.27	0.021	ug/L	2.66	ND	92.7	50-130	NA	NA	
Endrin	2.34	0.27	0.021	ug/L	2.66	ND	88.0	50-130	NA	NA	
Endrin Aldehyde	2.60	0.27	0.043	ug/L	2.66	ND	97.8	50-130	NA	NA	
Endrin Ketone	2.52	0.27	0.020	ug/L	2.66	ND	94.9	50-130	NA	NA	
gamma-BHC	2.56	0.27	0.021	ug/L	2.66	ND	96.3	50-130	NA	NA	
gamma-Chlordane	2.33	0.27	0.045	ug/L	2.66	ND	87.7	50-130	NA	NA	
Heptachlor	2.06	0.27	0.019	ug/L	2.66	ND	77.6	50-130	NA	NA	
Heptachlor Epoxide	2.48	0.27	0.041	ug/L	2.66	ND	93.1	50-130	NA	NA	
Methoxychlor	2.15	0.27	0.028	ug/L	2.66	ND	80.9	50-130	NA	NA	
Surrogate: DBC	*2.12*			ug/L	*2.66*	*NA*	*79.8*	*40-130*			
Surrogate: TCMX	*2.17*			ug/L	*2.66*	*NA*	*81.5*	*40-120*			

Matrix Spike Duplicate (B9I0270-MSD1)

Source: 0905025-01 Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.44	0.27	0.017	ug/L	2.73	ND	89.3	50-130	8.29	25	
4,4'-DDE	2.16	0.27	0.017	ug/L	2.73	ND	79.1	50-130	13.9	25	
4,4'-DDT	2.00	0.27	0.021	ug/L	2.73	ND	73.2	50-130	12.9	25	
Aldrin	2.22	0.27	0.019	ug/L	2.73	ND	81.4	50-130	9.24	25	
alpha-BHC	2.52	0.27	0.023	ug/L	2.73	ND	92.2	50-130	0.289	25	
alpha-Chlordane	2.50	0.27	0.017	ug/L	2.73	ND	91.5	50-130	8.06	25	
beta-BHC	2.71	0.27	0.017	ug/L	2.73	ND	99.2	50-130	0.923	25	
delta-BHC	2.74	0.27	0.015	ug/L	2.73	ND	100	50-130	0.220	25	
Dieldrin	2.62	0.27	0.026	ug/L	2.73	ND	95.9	50-130	5.19	25	
Endosulfan I	2.58	0.27	0.023	ug/L	2.73	ND	94.6	50-130	4.88	25	
Endosulfan II	2.53	0.27	0.021	ug/L	2.73	ND	92.7	50-130	4.00	25	
Endosulfan Sulfate	2.56	0.27	0.021	ug/L	2.73	ND	93.9	50-130	3.91	25	
Endrin	2.46	0.27	0.022	ug/L	2.73	ND	89.9	50-130	4.81	25	
Endrin Aldehyde	2.68	0.27	0.044	ug/L	2.73	ND	98.0	50-130	2.88	25	
Endrin Ketone	2.59	0.27	0.021	ug/L	2.73	ND	94.9	50-130	2.72	25	
gamma-BHC	2.57	0.27	0.022	ug/L	2.73	ND	94.2	50-130	0.433	25	
gamma-Chlordane	2.53	0.27	0.046	ug/L	2.73	ND	92.7	50-130	8.18	25	
Heptachlor	2.21	0.27	0.019	ug/L	2.73	ND	80.8	50-130	6.74	25	

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0270 - EPA 3510C

Matrix Spike Duplicate (B9I0270-MSD1) **Source: 0905025-01** Prepared: 09/14/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Heptachlor Epoxide	2.58	0.27	0.042	ug/L	2.73	ND	94.6	50-130	4.29	25	
Methoxychlor	2.32	0.27	0.029	ug/L	2.73	ND	84.8	50-130	7.41	25	
Surrogate: DBC	*2.29*			ug/L	*2.73*	*NA*	*83.8*	*40-130*			
Surrogate: TCMX	*2.01*			ug/L	*2.73*	*NA*	*73.6*	*40-120*			

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0274 - EPA 3510C

Method Blank (B9I0274-BLK1)

Prepared: 09/15/09 Analyzed: 09/16/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	<0.25	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Alachlor	<0.19	0.50	0.19	ug/L	NA	NA	NA	NA	NA	NA	
Atrazine	<0.24	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	<0.34	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Cyanazine	<0.48	0.50	0.48	ug/L	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	<0.26	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
Desethylatrazine	<0.29	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Dimethenamid	<0.24	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
EPTC	<0.22	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Ethalfluralin	<0.47	0.50	0.47	ug/L	NA	NA	NA	NA	NA	NA	
Fonofos	<0.30	0.50	0.30	ug/L	NA	NA	NA	NA	NA	NA	
Metolachlor	<0.28	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
Metribuzin	<0.35	0.50	0.35	ug/L	NA	NA	NA	NA	NA	NA	
Pendimethalin	<0.25	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Phorate	<0.58	1.0	0.58	ug/L	NA	NA	NA	NA	NA	NA	
Prometon	<0.29	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Propachlor	<0.14	0.50	0.14	ug/L	NA	NA	NA	NA	NA	NA	
Propazine	<0.21	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Simazine	<0.32	0.50	0.32	ug/L	NA	NA	NA	NA	NA	NA	
Terbufos	<0.54	1.0	0.54	ug/L	NA	NA	NA	NA	NA	NA	
Triallate	<0.34	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Trifluralin	<0.21	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: Atrazine-d5	*9.65*			ug/L	*10.0*	*NA*	*96.5*	*50-120*			
Surrogate: Diazinon-d10	*9.12*			ug/L	*10.0*	*NA*	*91.2*	*50-120*			

Laboratory Control Sample (B9I0274-BS1)

Prepared: 09/15/09 Analyzed: 09/16/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	10.0	0.50	0.25	ug/L	10.0	NA	100	65-115	NA	NA	
Alachlor	10.4	0.50	0.19	ug/L	10.0	NA	104	65-115	NA	NA	
Atrazine	10.0	0.50	0.24	ug/L	10.0	NA	100	65-115	NA	NA	
Chlorpyrifos	9.83	0.50	0.34	ug/L	10.0	NA	98.3	65-115	NA	NA	
Cyanazine	10.4	0.50	0.48	ug/L	10.0	NA	104	65-115	NA	NA	
Deisopropylatrazine	7.97	0.50	0.26	ug/L	10.0	NA	79.7	65-115	NA	NA	
Desethylatrazine	10.2	0.50	0.29	ug/L	10.0	NA	102	65-115	NA	NA	
Dimethenamid	10.7	0.50	0.24	ug/L	10.0	NA	107	65-115	NA	NA	
EPTC	8.39	0.50	0.22	ug/L	10.0	NA	83.9	50-110	NA	NA	
Ethalfluralin	9.88	0.50	0.47	ug/L	10.0	NA	98.8	65-115	NA	NA	
Fonofos	10.2	0.50	0.30	ug/L	10.0	NA	102	55-115	NA	NA	
Metolachlor	10.5	0.50	0.28	ug/L	10.0	NA	105	70-120	NA	NA	
Metribuzin	10.2	0.50	0.35	ug/L	10.0	NA	102	70-120	NA	NA	
Pendimethalin	10.8	0.50	0.25	ug/L	10.0	NA	108	65-115	NA	NA	
Phorate	9.67	1.0	0.58	ug/L	10.0	NA	96.7	30-100	NA	NA	

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Minneapolis, MN 55438
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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0905025
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0274 - EPA 3510C

Laboratory Control Sample (B9I0274-BS1)

Prepared: 09/15/09 Analyzed: 09/16/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	10.4	0.50	0.29	ug/L	10.0	NA	104	70-120	NA	NA	
Propachlor	9.92	0.50	0.14	ug/L	10.0	NA	99.2	65-115	NA	NA	
Propazine	10.2	0.50	0.21	ug/L	10.0	NA	102	65-115	NA	NA	
Simazine	8.82	0.50	0.32	ug/L	10.0	NA	88.2	65-115	NA	NA	
Terbufos	8.97	1.0	0.54	ug/L	10.0	NA	89.7	30-100	NA	NA	
Triallate	9.91	0.50	0.34	ug/L	10.0	NA	99.1	65-115	NA	NA	
Trifluralin	9.42	0.50	0.21	ug/L	10.0	NA	94.2	65-115	NA	NA	
Surrogate: Atrazine-d5	*8.77*			ug/L	*10.0*	*NA*	*87.7*	*50-120*			
Surrogate: Diazinon-d10	*8.53*			ug/L	*10.0*	*NA*	*85.3*	*50-120*			

Laboratory Control Sample Duplicate (B9I0274-BSD1)

Prepared: 09/15/09 Analyzed: 09/16/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	10.4	0.50	0.25	ug/L	10.0	NA	104	65-115	3.04	25	
Alachlor	10.7	0.50	0.19	ug/L	10.0	NA	107	65-115	2.94	25	
Atrazine	10.3	0.50	0.24	ug/L	10.0	NA	103	65-115	2.66	25	
Chlorpyrifos	9.96	0.50	0.34	ug/L	10.0	NA	99.6	65-115	1.31	25	
Cyanazine	10.5	0.50	0.48	ug/L	10.0	NA	105	65-115	1.15	25	
Deisopropylatrazine	8.43	0.50	0.26	ug/L	10.0	NA	84.3	65-115	5.61	25	
Desethylatrazine	10.1	0.50	0.29	ug/L	10.0	NA	101	65-115	1.18	25	
Dimethenamid	10.6	0.50	0.24	ug/L	10.0	NA	106	65-115	1.04	25	
EPTC	8.31	0.50	0.22	ug/L	10.0	NA	83.1	50-110	0.958	30	
Ethalfluralin	10.4	0.50	0.47	ug/L	10.0	NA	104	65-115	5.61	30	
Fonofos	10.2	0.50	0.30	ug/L	10.0	NA	102	55-115	0.393	30	
Metolachlor	10.6	0.50	0.28	ug/L	10.0	NA	106	70-120	1.14	25	
Metribuzin	10.5	0.50	0.35	ug/L	10.0	NA	105	70-120	3.18	25	
Pendimethalin	11.0	0.50	0.25	ug/L	10.0	NA	110	65-115	1.92	25	
Phorate	9.58	1.0	0.58	ug/L	10.0	NA	95.8	30-100	0.935	30	
Prometon	10.4	0.50	0.29	ug/L	10.0	NA	104	70-120	0.287	30	
Propachlor	10.2	0.50	0.14	ug/L	10.0	NA	102	65-115	2.98	30	
Propazine	10.4	0.50	0.21	ug/L	10.0	NA	104	65-115	2.03	25	
Simazine	9.37	0.50	0.32	ug/L	10.0	NA	93.7	65-115	6.05	25	
Terbufos	9.62	1.0	0.54	ug/L	10.0	NA	96.2	30-100	6.99	30	
Triallate	10.0	0.50	0.34	ug/L	10.0	NA	100	65-115	1.30	25	
Trifluralin	9.56	0.50	0.21	ug/L	10.0	NA	95.6	65-115	1.48	25	
Surrogate: Atrazine-d5	*9.10*			ug/L	*10.0*	*NA*	*91.0*	*50-120*			
Surrogate: Diazinon-d10	*9.04*			ug/L	*10.0*	*NA*	*90.4*	*50-120*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0905025
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0274 - EPA 3510C

Duplicate (B9I0274-DUP1) **Source: 0904909-01** Prepared: 09/15/09 Analyzed: 09/16/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	<0.31	0.61	0.31	ug/L	NA	ND	NA	NA	NA	30	
Alachlor	<0.23	0.61	0.23	ug/L	NA	ND	NA	NA	NA	30	
Atrazine	0.871	0.61	0.29	ug/L	NA	0.731	NA	NA	17.5	30	
Chlorpyrifos	<0.41	0.61	0.41	ug/L	NA	ND	NA	NA	NA	30	
Cyanazine	<0.59	0.61	0.59	ug/L	NA	ND	NA	NA	NA	30	
Deisopropylatrazine	<0.32	0.61	0.32	ug/L	NA	ND	NA	NA	NA	30	
Desethylatrazine	0.491 J	0.61	0.36	ug/L	NA	0.449	NA	NA	8.96	30	
Dimethenamid	<0.29	0.61	0.29	ug/L	NA	ND	NA	NA	NA	30	
EPTC	<0.26	0.61	0.26	ug/L	NA	ND	NA	NA	NA	30	
Ethalfluralin	<0.57	0.61	0.57	ug/L	NA	ND	NA	NA	NA	30	
Fonofos	<0.36	0.61	0.36	ug/L	NA	ND	NA	NA	NA	30	
Metolachlor	<0.34	0.61	0.34	ug/L	NA	ND	NA	NA	NA	30	
Metribuzin	<0.43	0.61	0.43	ug/L	NA	ND	NA	NA	NA	30	
Pendimethalin	<0.31	0.61	0.31	ug/L	NA	ND	NA	NA	NA	30	
Phorate	<0.72	1.2	0.72	ug/L	NA	ND	NA	NA	NA	30	
Prometon	<0.36	0.61	0.36	ug/L	NA	ND	NA	NA	NA	30	
Propachlor	<0.17	0.61	0.17	ug/L	NA	ND	NA	NA	NA	30	
Propazine	<0.25	0.61	0.25	ug/L	NA	ND	NA	NA	NA	30	
Simazine	<0.39	0.61	0.39	ug/L	NA	ND	NA	NA	NA	30	
Terbufos	<0.67	1.2	0.67	ug/L	NA	ND	NA	NA	NA	30	
Triallate	<0.41	0.61	0.41	ug/L	NA	ND	NA	NA	NA	30	
Trifluralin	<0.26	0.61	0.26	ug/L	NA	ND	NA	NA	NA	30	
Surrogate: Atrazine-d5	*11.2*			ug/L	*12.3*	*NA*	*90.9*	*50-120*			
Surrogate: Diazinon-d10	*11.2*			ug/L	*12.3*	*NA*	*91.5*	*50-120*			

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0295 - EPA 3510C

Method Blank (B9I0295-BLK1)

Prepared: 09/15/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	<0.50	0.50	0.31	ug/L	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	<0.50	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D	<0.50	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D.B.	<0.50	0.50	0.15	ug/L	NA	NA	NA	NA	NA	NA	
Bentazon	<0.50	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Dicamba	<0.50	0.50	0.38	ug/L	NA	NA	NA	NA	NA	NA	
Dinoseb	<0.50	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
M.C.P.A.	<0.30	0.30	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	<0.50	0.50	0.39	ug/L	NA	NA	NA	NA	NA	NA	
Picloram	<0.50	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Triclopyr	<0.50	0.50	0.41	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	*3.76*			ug/L	*5.00*	*NA*	*75.2*	*65-130*			

Laboratory Control Sample (B9I0295-BS1)

Prepared: 09/15/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.29	0.50	0.31	ug/L	5.00	NA	85.8	70-130	NA	NA	
2,4,5-T.P.	4.28	0.50	0.28	ug/L	5.00	NA	85.6	70-130	NA	NA	
2,4-D	4.02	0.50	0.26	ug/L	5.00	NA	80.4	70-130	NA	NA	
2,4-D.B.	3.95	0.50	0.15	ug/L	5.00	NA	79.0	75-140	NA	NA	
Bentazon	4.04	0.50	0.22	ug/L	5.00	NA	80.8	75-135	NA	NA	
Dicamba	3.91	0.50	0.38	ug/L	5.00	NA	78.2	65-130	NA	NA	
Dinoseb	3.09	0.50	0.34	ug/L	5.00	NA	61.8	40-125	NA	NA	
M.C.P.A.	4.02	0.30	0.29	ug/L	5.00	NA	80.4	70-130	NA	NA	
Pentachlorophenol	3.87	0.50	0.39	ug/L	5.00	NA	77.4	70-120	NA	NA	
Picloram	3.47	0.50	0.25	ug/L	5.00	NA	69.4	60-125	NA	NA	
Triclopyr	4.23	0.50	0.41	ug/L	5.00	NA	84.6	75-125	NA	NA	
Surrogate: D.C.A.A.	*3.85*			ug/L	*5.00*	*NA*	*77.0*	*65-130*			

Laboratory Control Sample Duplicate (B9I0295-BSD1)

Prepared: 09/15/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.39	0.50	0.31	ug/L	5.00	NA	87.8	70-130	2.30	20	
2,4,5-T.P.	4.08	0.50	0.28	ug/L	5.00	NA	81.6	70-130	4.78	20	
2,4-D	4.04	0.50	0.26	ug/L	5.00	NA	80.8	70-130	0.496	20	
2,4-D.B.	4.06	0.50	0.15	ug/L	5.00	NA	81.2	75-140	2.75	20	
Bentazon	3.86	0.50	0.22	ug/L	5.00	NA	77.2	75-135	4.56	20	
Dicamba	3.81	0.50	0.38	ug/L	5.00	NA	76.2	65-130	2.59	20	
Dinoseb	2.80	0.50	0.34	ug/L	5.00	NA	56.0	40-125	9.85	20	
M.C.P.A.	4.11	0.30	0.29	ug/L	5.00	NA	82.2	70-130	2.21	20	
Pentachlorophenol	3.47	0.50	0.39	ug/L	5.00	NA	69.4	70-120	10.9	20	
Picloram	3.48	0.50	0.25	ug/L	5.00	NA	69.6	60-125	0.288	20	
Triclopyr	4.06	0.50	0.41	ug/L	5.00	NA	81.2	75-125	4.10	20	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0805.07 SIRI 300	Work Order #: 0905025
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0295 - EPA 3510C

Laboratory Control Sample Duplicate (B9I0295-BSD1)

Prepared: 09/15/09 Analyzed: 09/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: D.C.A.A.	*3.66*			ug/L	*5.00*	*NA*	*73.2*	*65-130*			

Matrix Spike (B9I0295-MS1)

Source: 0904909-01 Prepared: 09/15/09 Analyzed: 09/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.01	0.50	0.31	ug/L	5.00	ND	80.2	70-140	NA	NA	
2,4,5-T.P.	3.95	0.50	0.28	ug/L	5.00	ND	79.0	70-135	NA	NA	
2,4-D	3.83	0.50	0.26	ug/L	5.00	ND	76.6	70-140	NA	NA	
2,4-D.B.	3.73	0.50	0.15	ug/L	5.00	ND	74.6	75-140	NA	NA	
Bentazon	3.72	0.50	0.22	ug/L	5.00	ND	74.4	70-140	NA	NA	
Dicamba	3.77	0.50	0.38	ug/L	5.00	ND	75.4	65-140	NA	NA	
Dinoseb	3.23	0.50	0.34	ug/L	5.00	ND	64.6	40-130	NA	NA	
M.C.P.A.	3.92	0.30	0.29	ug/L	5.00	ND	78.4	60-140	NA	NA	
Pentachlorophenol	3.63	0.50	0.39	ug/L	5.00	ND	72.6	70-125	NA	NA	
Picloram	3.49	0.50	0.25	ug/L	5.00	ND	69.8	45-140	NA	NA	
Triclopyr	3.93	0.50	0.41	ug/L	5.00	ND	78.6	75-125	NA	NA	
Surrogate: D.C.A.A.	*3.75*			ug/L	*5.00*	*NA*	*75.0*	*65-130*			

Matrix Spike Duplicate (B9I0295-MSD1)

Source: 0904909-01 Prepared: 09/15/09 Analyzed: 09/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	3.90	0.50	0.31	ug/L	5.00	ND	78.0	70-140	2.78	25	
2,4,5-T.P.	3.61	0.50	0.28	ug/L	5.00	ND	72.2	70-135	8.99	25	
2,4-D	3.69	0.50	0.26	ug/L	5.00	ND	73.8	70-140	3.72	25	
2,4-D.B.	3.74	0.50	0.15	ug/L	5.00	ND	74.8	75-140	0.268	25	
Bentazon	3.30	0.50	0.22	ug/L	5.00	ND	66.0	70-140	12.0	25	
Dicamba	3.70	0.50	0.38	ug/L	5.00	ND	74.0	65-140	1.87	25	
Dinoseb	2.99	0.50	0.34	ug/L	5.00	ND	59.8	40-130	7.72	25	
M.C.P.A.	3.48	0.30	0.29	ug/L	5.00	ND	69.6	60-140	11.9	25	
Pentachlorophenol	3.22	0.50	0.39	ug/L	5.00	ND	64.4	70-125	12.0	25	
Picloram	3.03	0.50	0.25	ug/L	5.00	ND	60.6	45-140	14.1	25	
Triclopyr	3.63	0.50	0.41	ug/L	5.00	ND	72.6	75-125	7.94	25	
Surrogate: D.C.A.A.	*3.54*			ug/L	*5.00*	*NA*	*70.8*	*65-130*			

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UMP018845

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

0905025

Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number: 23/19-805.07 SIRI 300

Project Name: UMA SSI/RI

Sample Origination State MN (use two letter postal state abbreviation)

COC Number: № 29008

COC 1 of 1

Project Manager: SME

Project QC Contact: KJN

Sampled by: EJC

Laboratory: Braun

Location	Start Depth	Stop Depth	Depth Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	VOCs (HCl) #1	SVOCs (unpreserved) #2	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	General (unpreserved) #3	Diesel Range Organics (HCl)	Nutrients (H_2SO_4) #4	List 1+2 Pesticides	QC Pesticides	Nitrogen	VOCs (Preserved MeOH) #1	GRO, BTEX (Preserved MeOH) #1	DRO (Preserved unpreserved)	Metals (unpreserved)	SVOCs (unpreserved) #2	% Solids (plastic vial, unpres.)	Total Number Of Containers	
1. FB-1 (Groundwater)	—	—	—	9-11-09	1200	X				X								4	2	1							7	List 1+2 Pest, QC Pest, Nitrogen. See attached list.
2. FB-2 (Geoprobe)	—	—	—	9-11-09	1205	X				X								4	2								6	List 1+2 Pest, QC Pest. See attached list.
3.																												
4.																												
5.																												
6.																												
7.																												
8.																												
9.																												
10.																												+IBG + CS + TB

Common Parameter/Container - Preservation Key

#1 - Volatile Organics = BTEX, GRO, TPH, 8260 Full List
#2 - Semivolatile Organics = PAHs, PCP, Dioxins, 8270 Full List, Herbicide/Pesticide/PCBs
#3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
#4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By	On Ice?	Date	Time	Received by:	Date	Time
[illegible] Considine	Y N	9/14/09	1000	[illegible]	9/14/09	1120
Relinquished By:	On Ice? Y N	Date	Time	Received by:	Date	Time

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other:

Air Bill Number: COOLER #1: 2.3°C #2: 1.6°C

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

H:\R_G\STDFORMS\Chain Of Custody Form 2009 RLG Rev. 09/01/09

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Braun Intertec Corporation
11001 Hampshire Avenue S.
Minneapolis, MN 55438

Phone: 952.995.2000
Fax: 952.995.2020
Web: braunintertec.com

Ms. Kelly Neppl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

October 20, 2009

Work Order #: 0905092
(Revised)

RE: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300

Dear Kelly Neppl:

Braun Intertec Corporation received samples for the project identified above on September 16, 2009. Analytical results are summarized in the following report.

All routine quality assurance procedures were followed, unless otherwise noted.

Analytical results are reported on an "as received" basis unless otherwise noted. Where possible, the samples will be retained by the laboratory for 14 days following issuance of the initial final report. The samples will be disposed of or returned at that time. Arrangements can be made for extended storage by contacting me at this time.

We appreciate your decision to use Braun Intertec Corporation for this project. We are committed to being your vendor of choice to meet your analytical chemistry needs.

If you have any questions please contact me at the above phone number.

Sincerely,

Steven J. Albrecht

Steven J. Albrecht
Associate Principal

Certification/Accreditation Numbers

Minnesota Department of Health: 027-053-117 Wisconsin DNR: 999462640

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905092
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

How to Use this Report

In order to get the most out of the information presented in this report please refer to the following explanations as to how the data in this report is tied together and how some of the terms are defined.

Qualifiers and Abbreviations are defined in the following section. You will find these codes used throughout the report in headers and in note sections to designate a unique fact about the data to which they are associated.

The Case Narrative gives a "story" about the analysis and results. Here you will find greater elaboration on relevant qualifiers as well as an explanation of anything of particular note in the data. This is a discussion of the data in terms of quality control and chemistry. It is a summary of any deviations that could affect the usefulness of the data. This is not an interpretation as to how this information relates to regulatory compliance, toxicity, or hazardous characterization. These items are beyond the scope of this report.

The Sample Summary provides detail on sample receipt. The association between Client sample ID and the Laboratory sample ID are defined here; this information is valuable to have when discussing results with your project manager. Sample collection and receipt dates and times are provided here as well. General notes regarding the work order are also documented here. This is a mini "case narrative" that describes any anomalies regarding the condition of the samples upon arrival to the laboratory or special circumstances regarding the work order.

The Conditions Upon Receipt summarizes the results of specific checks that have been performed at sample receipt. This includes items like custody documentation, sample condition, and temperature at receipt. Each "cooler" is identified and the conditions associated with that cooler are documented. A "cooler" is defined as the larger container used to transport the individual samples. In most cases this is a standard recreational cooler but it can be a box, plastic bag, or other container.

The laboratory results are summarized in the following sections. Data is broken down into major categories for convenience. An example of such a category would be "Total Petroleum Hydrocarbons." Here you would find data that references the testing of such parameters as diesel range organics and gasoline range organics. Other categories are similarly mapped. The batch number is associated with each sample. This is important to evaluate Quality Control (QC) data. Surrogate results samples are provided with each sample. Laboratory control limits are provided for comparison (see below). The reference method is also identified. If a method is denoted with an "M" (e.g. EPA 1234(M)) this means that it has been modified. An explanation of the modification will be found in the Case Narrative. A result is given with appropriate units. If a soil sample is dry-weight corrected then the word "dry" will appear next to the units. If the word "dry" does not appear then the result is "as received."

The Method Reporting Limit (MRL) and Method Detection Limit (MDL) are provided. It is important to understand these terms. The MRL is a level that has been empirically verified to provide reliable quantitation of results. Results that are equal to or greater than this value will show up in bold. They are considered "hits." The MDL is a statistically derived number that indicates an estimated concentration at which an analyte can be detected above the noise level. If a result is less than the MRL but greater than the MDL then it is considered an estimate. Such a result is reported with a "J" flag denoting that it has been detected but that the result is an estimate.

In this specific report format, the majority of the analyses are reported without estimated concentrations less than the MRL. For these analyses, if a result is less than the MRL, the result is given as less than the MRL (e.g. if the MRL = 10 then a less than result would be given as "<10"). However, for the Organochlorine Pesticides in water and MDA List 1 Pesticides in water analyses, if a result is less than the MRL but greater than the MDL, then an estimated result is reported with a "J" flag. If a result for either of these two analyses is less than the MDL, then the result is given as less than the MDL.

The Quality Control (QC) samples are documented in the following section. Here you will find the preparation batches associated with each sample from the results section. The sample preparation method is also defined here. Accuracy is represented here in terms of a percent recovery as compared to a known value. Precision is represented as a relative percent difference between two duplicate sample aliquots. The laboratory control limits are provided as a means to evaluate the quality control data. If the result falls outside the laboratory control limits this simply means that it is outside what is typical for the laboratory and is noted accordingly. This does not mean that the data is invalid. Laboratory control limits are generally tighter than most program limits. This is a very important distinction. How the data is ultimately used determines its validity. Program requirements are defined in the Quality Assurance Project Plan (QAPP) governing the project. If your project manager is aware of your specific program requirements then a note will be made in the case narrative if the data fails to meet any of these requirements.

The last section contains copies of important documents and/or instrument printouts relevant to the report. This includes the chain of custody. It also may include items like chromatograms or spectra.

Please note that this report is paginated and must be reproduced in its entirety.

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905092
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Qualifiers and Abbreviations

qn	The spike recovery is outside of laboratory control limits for the matrix spike (MS) and/or the matrix spike duplicate (MSD).
go	The laboratory control sample recovery is outside of laboratory control limits.
COC	Chain of Custody
dry	Sample results reported on a dry weight basis
MDL	Method Detection Limit
MRL	Method Reporting Limit
NA	Not Applicable
ND	Analyte NOT DETECTED
NR	Not Reported
%Rec	Percent Recovery
RPD	Relative Percent Difference
VOC	Volatile Organic Compound

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WSW-207607	0905092-01	Water	09/15/09 12:35	09/16/09 10:40
WSW-208402	0905092-02	Water	09/15/09 14:00	09/16/09 10:40
WSW-208405	0905092-03	Water	09/15/09 15:15	09/16/09 10:40
FB-1	0905092-04	Water	09/15/09 00:00	09/16/09 10:40

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Conditions Upon Receipt

Cooler: Cooler 1

Temperature:	4.7 °C	**COC Included:**	Yes	**Custody Seals Used:**	No
Temperature Blank:	Yes	**COC Complete:**	Yes	**Custody Seals Intact:**	NA
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	No
Preservation Confirmed:	No	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

Cooler: Cooler 2

Temperature:	4.8 °C	**COC Included:**	Yes	**Custody Seals Used:**	No
Temperature Blank:	Yes	**COC Complete:**	Yes	**Custody Seals Intact:**	NA
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	No
Preservation Confirmed:	No	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

WSW-207607

0905092-01 (Water)

9/15/09 12:35

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Total Kjeldahl Nitrogen	<0.50	0.50	0.17	mg/L	B9I0614	9/29/09 9:36	10/2/09 14:09	EPA 351.2	
Nitrate + Nitrite as N	**5.7**	0.20	0.069	mg/L	B9I0450	9/22/09 8:22	9/22/09 15:08	SM4500 NO3F	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.015	0.24	0.015	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:57	EPA 8081A	go, qn
4,4'-DDE	<0.015	0.24	0.015	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:31	EPA 8081A	
4,4'-DDT	<0.019	0.24	0.019	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:31	EPA 8081A	go
Aldrin	<0.017	0.24	0.017	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:31	EPA 8081A	
alpha-BHC	<0.020	0.24	0.020	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:31	EPA 8081A	
alpha-Chlordane	<0.015	0.24	0.015	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:31	EPA 8081A	
beta-BHC	<0.015	0.24	0.015	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:31	EPA 8081A	
delta-BHC	<0.013	0.24	0.013	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:31	EPA 8081A	
Dieldrin	<0.023	0.24	0.023	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:31	EPA 8081A	
Endosulfan I	<0.020	0.24	0.020	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:31	EPA 8081A	
Endosulfan II	<0.018	0.24	0.018	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:57	EPA 8081A	
Endosulfan Sulfate	<0.018	0.24	0.018	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:31	EPA 8081A	
Endrin	<0.019	0.24	0.019	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:31	EPA 8081A	
Endrin Aldehyde	<0.038	0.24	0.038	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:31	EPA 8081A	
Endrin Ketone	<0.018	0.24	0.018	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:31	EPA 8081A	
gamma-BHC	<0.019	0.24	0.019	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:31	EPA 8081A	
gamma-Chlordane	<0.040	0.24	0.040	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:31	EPA 8081A	
Heptachlor	<0.017	0.24	0.017	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:31	EPA 8081A	
Heptachlor Epoxide	<0.036	0.24	0.036	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:31	EPA 8081A	
Methoxychlor	<0.025	0.24	0.025	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:31	EPA 8081A	
Toxaphene	<0.95	4.8	0.95	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:31	EPA 8081A	
Surr: DBC	*112 %*	*Limits: 40-130%*			*B9I0410*	*9/21/09 9:38*	*9/22/09 13:57*	*EPA 8081A*	
Surr: TCMX	*87.5 %*	*Limits: 40-120%*			*B9I0410*	*9/21/09 9:38*	*9/22/09 13:57*	*EPA 8081A*	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

WSW-207607

0905092-01 (Water)

9/15/09 12:35

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.24	0.48	0.24	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:24	EPA 8270C	
Alachlor	<0.18	0.48	0.18	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:24	EPA 8270C	
Atrazine	<0.23	0.48	0.23	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:24	EPA 8270C	
Chlorpyrifos	<0.32	0.48	0.32	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:24	EPA 8270C	
Cyanazine	<0.46	0.48	0.46	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:24	EPA 8270C	
Deisopropylatrazine	<0.24	0.48	0.24	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:24	EPA 8270C	
Desethylatrazine	<0.28	0.48	0.28	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:24	EPA 8270C	
Dimethenamid	<0.22	0.48	0.22	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:24	EPA 8270C	
EPTC	<0.20	0.48	0.20	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:24	EPA 8270C	
Ethalfluralin	<0.44	0.48	0.44	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:24	EPA 8270C	
Fonofos	<0.28	0.48	0.28	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:24	EPA 8270C	
Metolachlor	<0.26	0.48	0.26	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:24	EPA 8270C	
Metribuzin	<0.33	0.48	0.33	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:24	EPA 8270C	
Pendimethalin	<0.24	0.48	0.24	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:24	EPA 8270C	
Phorate	<0.56	0.95	0.56	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:24	EPA 8270C	go
Prometon	<0.28	0.48	0.28	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:24	EPA 8270C	
Propachlor	<0.13	0.48	0.13	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:24	EPA 8270C	
Propazine	<0.20	0.48	0.20	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:24	EPA 8270C	
Simazine	<0.30	0.48	0.30	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:24	EPA 8270C	
Terbufos	<0.52	0.95	0.52	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:24	EPA 8270C	
Triallate	<0.32	0.48	0.32	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:24	EPA 8270C	
Trifluralin	<0.20	0.48	0.20	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:24	EPA 8270C	
Surr: Atrazine-d5	*93.1 %*	*Limits: 50-120%*			*B9I0443*	*9/22/09 6:37*	*9/24/09 9:24*	*EPA 8270C*	
Surr: Diazinon-d10	*94.3 %*	*Limits: 50-120%*			*B9I0443*	*9/22/09 6:37*	*9/24/09 9:24*	*EPA 8270C*	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

WSW-208402

0905092-02 (Water)

9/15/09 14:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Total Kjeldahl Nitrogen	<0.50	0.50	0.17	mg/L	B9I0614	9/29/09 9:36	10/2/09 14:09	EPA 351.2	
Nitrate + Nitrite as N	**1.2**	0.020	0.0069	mg/L	B9I0450	9/22/09 8:22	9/22/09 15:08	SM4500 NO3F	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.015	0.24	0.015	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:23	EPA 8081A	go, qn
4,4'-DDE	<0.015	0.24	0.015	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:57	EPA 8081A	
4,4'-DDT	<0.019	0.24	0.019	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:23	EPA 8081A	go
Aldrin	<0.017	0.24	0.017	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:57	EPA 8081A	
alpha-BHC	<0.020	0.24	0.020	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:57	EPA 8081A	
alpha-Chlordane	<0.015	0.24	0.015	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:57	EPA 8081A	
beta-BHC	<0.015	0.24	0.015	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:57	EPA 8081A	
delta-BHC	<0.013	0.24	0.013	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:57	EPA 8081A	
Dieldrin	<0.023	0.24	0.023	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:57	EPA 8081A	
Endosulfan I	<0.020	0.24	0.020	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:57	EPA 8081A	
Endosulfan II	<0.018	0.24	0.018	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:23	EPA 8081A	
Endosulfan Sulfate	<0.018	0.24	0.018	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:57	EPA 8081A	
Endrin	<0.019	0.24	0.019	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:57	EPA 8081A	
Endrin Aldehyde	<0.038	0.24	0.038	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:57	EPA 8081A	
Endrin Ketone	<0.018	0.24	0.018	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:57	EPA 8081A	
gamma-BHC	<0.019	0.24	0.019	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:57	EPA 8081A	
gamma-Chlordane	<0.040	0.24	0.040	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:57	EPA 8081A	
Heptachlor	<0.017	0.24	0.017	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:57	EPA 8081A	
Heptachlor Epoxide	<0.036	0.24	0.036	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:57	EPA 8081A	
Methoxychlor	<0.025	0.24	0.025	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:57	EPA 8081A	
Toxaphene	<0.95	4.8	0.95	ug/L	B9I0410	9/21/09 9:38	9/22/09 13:57	EPA 8081A	
Surr: DBC	*108 %*	*Limits: 40-130%*			*B9I0410*	*9/21/09 9:38*	*9/22/09 14:23*	*EPA 8081A*	
Surr: TCMX	*87.8 %*	*Limits: 40-120%*			*B9I0410*	*9/21/09 9:38*	*9/22/09 13:57*	*EPA 8081A*	

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UMP018854

BRAUN INTERTEC

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

WSW-208405

0905092-03 (Water)

9/15/09 15:15

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Total Kjeldahl Nitrogen	<0.50	0.50	0.17	mg/L	B9I0614	9/29/09 9:36	10/2/09 14:09	EPA 351.2	
Nitrate + Nitrite as N	**2.6**	0.10	0.034	mg/L	B9I0450	9/22/09 8:22	9/22/09 15:08	SM4500 NO3F	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.015	0.24	0.015	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:49	EPA 8081A	go, qn
4,4'-DDE	<0.015	0.24	0.015	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:23	EPA 8081A	
4,4'-DDT	<0.019	0.24	0.019	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:49	EPA 8081A	go
Aldrin	<0.017	0.24	0.017	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:23	EPA 8081A	
alpha-BHC	<0.020	0.24	0.020	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:23	EPA 8081A	
alpha-Chlordane	<0.015	0.24	0.015	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:23	EPA 8081A	
beta-BHC	<0.015	0.24	0.015	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:23	EPA 8081A	
delta-BHC	<0.013	0.24	0.013	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:23	EPA 8081A	
Dieldrin	<0.023	0.24	0.023	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:23	EPA 8081A	
Endosulfan I	<0.020	0.24	0.020	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:23	EPA 8081A	
Endosulfan II	<0.018	0.24	0.018	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:49	EPA 8081A	
Endosulfan Sulfate	<0.018	0.24	0.018	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:23	EPA 8081A	
Endrin	<0.019	0.24	0.019	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:23	EPA 8081A	
Endrin Aldehyde	<0.038	0.24	0.038	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:23	EPA 8081A	
Endrin Ketone	<0.018	0.24	0.018	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:23	EPA 8081A	
gamma-BHC	<0.019	0.24	0.019	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:23	EPA 8081A	
gamma-Chlordane	<0.040	0.24	0.040	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:23	EPA 8081A	
Heptachlor	<0.017	0.24	0.017	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:23	EPA 8081A	
Heptachlor Epoxide	<0.036	0.24	0.036	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:23	EPA 8081A	
Methoxychlor	<0.025	0.24	0.025	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:23	EPA 8081A	
Toxaphene	<0.95	4.8	0.95	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:23	EPA 8081A	
Surr: DBC	*101 %*	*Limits: 40-130%*			*B9I0410*	*9/21/09 9:38*	*9/22/09 14:49*	*EPA 8081A*	
Surr: TCMX	*83.1 %*	*Limits: 40-120%*			*B9I0410*	*9/21/09 9:38*	*9/22/09 14:23*	*EPA 8081A*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905092
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

WSW-208405

0905092-03 (Water)

9/15/09 15:15

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.24	0.48	0.24	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:49	EPA 8270C	
Alachlor	<0.18	0.48	0.18	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:49	EPA 8270C	
Atrazine	<0.23	0.48	0.23	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:49	EPA 8270C	
Chlorpyrifos	<0.32	0.48	0.32	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:49	EPA 8270C	
Cyanazine	<0.46	0.48	0.46	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:49	EPA 8270C	
Deisopropylatrazine	<0.24	0.48	0.24	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:49	EPA 8270C	
Desethylatrazine	<0.28	0.48	0.28	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:49	EPA 8270C	
Dimethenamid	<0.22	0.48	0.22	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:49	EPA 8270C	
EPTC	<0.20	0.48	0.20	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:49	EPA 8270C	
Ethalfluralin	<0.44	0.48	0.44	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:49	EPA 8270C	
Fonofos	<0.28	0.48	0.28	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:49	EPA 8270C	
Metolachlor	<0.26	0.48	0.26	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:49	EPA 8270C	
Metribuzin	<0.33	0.48	0.33	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:49	EPA 8270C	
Pendimethalin	<0.24	0.48	0.24	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:49	EPA 8270C	
Phorate	<0.56	0.95	0.56	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:49	EPA 8270C	go
Prometon	<0.28	0.48	0.28	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:49	EPA 8270C	
Propachlor	<0.13	0.48	0.13	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:49	EPA 8270C	
Propazine	<0.20	0.48	0.20	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:49	EPA 8270C	
Simazine	<0.30	0.48	0.30	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:49	EPA 8270C	
Terbufos	<0.52	0.95	0.52	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:49	EPA 8270C	
Triallate	<0.32	0.48	0.32	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:49	EPA 8270C	
Trifluralin	<0.20	0.48	0.20	ug/L	B9I0443	9/22/09 6:37	9/24/09 9:49	EPA 8270C	
Surr: Atrazine-d5	*92.0 %*	*Limits: 50-120%*			*B9I0443*	*9/22/09 6:37*	*9/24/09 9:49*	*EPA 8270C*	
Surr: Diazinon-d10	*93.6 %*	*Limits: 50-120%*			*B9I0443*	*9/22/09 6:37*	*9/24/09 9:49*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905092
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

FB-1

0905092-04 (Water)

9/15/09 0:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Total Kjeldahl Nitrogen	<0.50	0.50	0.17	mg/L	B9I0614	9/29/09 9:36	10/2/09 14:09	EPA 351.2	
Nitrate + Nitrite as N	<0.020	0.020	0.0069	mg/L	B9I0450	9/22/09 8:22	9/22/09 15:08	SM4500 NO3F	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.015	0.24	0.015	ug/L	B9I0410	9/21/09 9:38	9/22/09 15:15	EPA 8081A	go, qn
4,4'-DDE	<0.015	0.24	0.015	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:49	EPA 8081A	
4,4'-DDT	<0.019	0.24	0.019	ug/L	B9I0410	9/21/09 9:38	9/22/09 15:15	EPA 8081A	go
Aldrin	<0.017	0.24	0.017	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:49	EPA 8081A	
alpha-BHC	<0.020	0.24	0.020	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:49	EPA 8081A	
alpha-Chlordane	<0.015	0.24	0.015	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:49	EPA 8081A	
beta-BHC	<0.015	0.24	0.015	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:49	EPA 8081A	
delta-BHC	<0.013	0.24	0.013	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:49	EPA 8081A	
Dieldrin	<0.023	0.24	0.023	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:49	EPA 8081A	
Endosulfan I	<0.020	0.24	0.020	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:49	EPA 8081A	
Endosulfan II	<0.018	0.24	0.018	ug/L	B9I0410	9/21/09 9:38	9/22/09 15:15	EPA 8081A	
Endosulfan Sulfate	<0.018	0.24	0.018	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:49	EPA 8081A	
Endrin	<0.019	0.24	0.019	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:49	EPA 8081A	
Endrin Aldehyde	<0.038	0.24	0.038	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:49	EPA 8081A	
Endrin Ketone	<0.018	0.24	0.018	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:49	EPA 8081A	
gamma-BHC	<0.019	0.24	0.019	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:49	EPA 8081A	
gamma-Chlordane	<0.040	0.24	0.040	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:49	EPA 8081A	
Heptachlor	<0.017	0.24	0.017	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:49	EPA 8081A	
Heptachlor Epoxide	<0.036	0.24	0.036	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:49	EPA 8081A	
Methoxychlor	<0.025	0.24	0.025	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:49	EPA 8081A	
Toxaphene	<0.95	4.8	0.95	ug/L	B9I0410	9/21/09 9:38	9/22/09 14:49	EPA 8081A	
Surr: DBC	*102 %*	*Limits: 40-130%*			*B9I0410*	*9/21/09 9:38*	*9/22/09 15:15*	*EPA 8081A*	
Surr: TCMX	*86.1 %*	*Limits: 40-120%*			*B9I0410*	*9/21/09 9:38*	*9/22/09 14:49*	*EPA 8081A*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905092
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

FB-1

0905092-04 (Water)

9/15/09 0:00

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.24	0.48	0.24	ug/L	B9I0443	9/22/09 6:37	9/24/09 10:15	EPA 8270C	
Alachlor	<0.18	0.48	0.18	ug/L	B9I0443	9/22/09 6:37	9/24/09 10:15	EPA 8270C	
Atrazine	<0.23	0.48	0.23	ug/L	B9I0443	9/22/09 6:37	9/24/09 10:15	EPA 8270C	
Chlorpyrifos	<0.32	0.48	0.32	ug/L	B9I0443	9/22/09 6:37	9/24/09 10:15	EPA 8270C	
Cyanazine	<0.46	0.48	0.46	ug/L	B9I0443	9/22/09 6:37	9/24/09 10:15	EPA 8270C	
Deisopropylatrazine	<0.24	0.48	0.24	ug/L	B9I0443	9/22/09 6:37	9/24/09 10:15	EPA 8270C	
Desethylatrazine	<0.28	0.48	0.28	ug/L	B9I0443	9/22/09 6:37	9/24/09 10:15	EPA 8270C	
Dimethenamid	<0.22	0.48	0.22	ug/L	B9I0443	9/22/09 6:37	9/24/09 10:15	EPA 8270C	
EPTC	<0.20	0.48	0.20	ug/L	B9I0443	9/22/09 6:37	9/24/09 10:15	EPA 8270C	
Ethalfluralin	<0.44	0.48	0.44	ug/L	B9I0443	9/22/09 6:37	9/24/09 10:15	EPA 8270C	
Fonofos	<0.28	0.48	0.28	ug/L	B9I0443	9/22/09 6:37	9/24/09 10:15	EPA 8270C	
Metolachlor	<0.26	0.48	0.26	ug/L	B9I0443	9/22/09 6:37	9/24/09 10:15	EPA 8270C	
Metribuzin	<0.33	0.48	0.33	ug/L	B9I0443	9/22/09 6:37	9/24/09 10:15	EPA 8270C	
Pendimethalin	<0.24	0.48	0.24	ug/L	B9I0443	9/22/09 6:37	9/24/09 10:15	EPA 8270C	
Phorate	<0.56	0.95	0.56	ug/L	B9I0443	9/22/09 6:37	9/24/09 10:15	EPA 8270C	go
Prometon	<0.28	0.48	0.28	ug/L	B9I0443	9/22/09 6:37	9/24/09 10:15	EPA 8270C	
Propachlor	<0.13	0.48	0.13	ug/L	B9I0443	9/22/09 6:37	9/24/09 10:15	EPA 8270C	
Propazine	<0.20	0.48	0.20	ug/L	B9I0443	9/22/09 6:37	9/24/09 10:15	EPA 8270C	
Simazine	<0.30	0.48	0.30	ug/L	B9I0443	9/22/09 6:37	9/24/09 10:15	EPA 8270C	
Terbufos	<0.52	0.95	0.52	ug/L	B9I0443	9/22/09 6:37	9/24/09 10:15	EPA 8270C	
Triallate	<0.32	0.48	0.32	ug/L	B9I0443	9/22/09 6:37	9/24/09 10:15	EPA 8270C	
Trifluralin	<0.20	0.48	0.20	ug/L	B9I0443	9/22/09 6:37	9/24/09 10:15	EPA 8270C	
Surr: Atrazine-d5	*92.7 %*	*Limits: 50-120%*			*B9I0443*	*9/22/09 6:37*	*9/24/09 10:15*	*EPA 8270C*	
Surr: Diazinon-d10	*96.4 %*	*Limits: 50-120%*			*B9I0443*	*9/22/09 6:37*	*9/24/09 10:15*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905092
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Classical Chemistry Parameters - Quality Control

Batch B9I0450 - NO PREP

Method Blank (B9I0450-BLK1)

Prepared & Analyzed: 09/22/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	<0.020	0.020	0.0069	mg/L	NA	NA	NA	NA	NA	NA	

Laboratory Control Sample (B9I0450-BS1)

Prepared & Analyzed: 09/22/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	0.508	0.020	0.0069	mg/L	0.500	NA	102	80-120	NA	NA	

Laboratory Control Sample Duplicate (B9I0450-BSD1)

Prepared & Analyzed: 09/22/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	0.535	0.020	0.0069	mg/L	0.500	NA	107	80-120	5.21	20	

Matrix Spike (B9I0450-MS2)

Source: 0905092-01RE1 Prepared & Analyzed: 09/22/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	10.5	0.20	0.069	mg/L	5.00	5.72	95.3	75-125	NA	NA	

Matrix Spike Duplicate (B9I0450-MSD2)

Source: 0905092-01RE1 Prepared & Analyzed: 09/22/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	10.1	0.20	0.069	mg/L	5.00	5.72	87.1	75-125	4.01	20	

Batch B9I0614 - EPA 351.2

Method Blank (B9I0614-BLK1)

Prepared: 09/29/09 Analyzed: 10/02/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	<0.50	0.50	0.17	mg/L	NA	NA	NA	NA	NA	NA	

Laboratory Control Sample (B9I0614-BS1)

Prepared: 09/29/09 Analyzed: 10/02/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	2.40	0.50	0.17	mg/L	2.50	NA	96.0	90-110	NA	NA	

Laboratory Control Sample Duplicate (B9I0614-BSD1)

Prepared: 09/29/09 Analyzed: 10/02/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	2.31	0.50	0.17	mg/L	2.50	NA	92.2	90-110	4.04	20	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905092
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Classical Chemistry Parameters - Quality Control

Batch B9I0614 - EPA 351.2

Matrix Spike (B9I0614-MS1)

Source: 0905092-01 Prepared: 09/29/09 Analyzed: 10/02/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	2.47	0.50	0.17	mg/L	2.50	ND	98.7	90-110	NA	NA	

Matrix Spike Duplicate (B9I0614-MSD1)

Source: 0905092-01 Prepared: 09/29/09 Analyzed: 10/02/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	2.43	0.50	0.17	mg/L	2.50	ND	97.1	90-110	1.68	20	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0410 - EPA 3510C

Method Blank (B9I0410-BLK1)

Prepared: 09/21/09 Analyzed: 09/22/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
4,4'-DDE	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
4,4'-DDT	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
Aldrin	<0.018	0.25	0.018	ug/L	NA	NA	NA	NA	NA	NA	
alpha-BHC	<0.021	0.25	0.021	ug/L	NA	NA	NA	NA	NA	NA	
alpha-Chlordane	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
beta-BHC	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
delta-BHC	<0.014	0.25	0.014	ug/L	NA	NA	NA	NA	NA	NA	
Dieldrin	<0.024	0.25	0.024	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan I	<0.021	0.25	0.021	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan II	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan Sulfate	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
Endrin	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
Endrin Aldehyde	<0.040	0.25	0.040	ug/L	NA	NA	NA	NA	NA	NA	
Endrin Ketone	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
gamma-BHC	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
gamma-Chlordane	<0.042	0.25	0.042	ug/L	NA	NA	NA	NA	NA	NA	
Heptachlor	<0.018	0.25	0.018	ug/L	NA	NA	NA	NA	NA	NA	
Heptachlor Epoxide	<0.038	0.25	0.038	ug/L	NA	NA	NA	NA	NA	NA	
Methoxychlor	<0.026	0.25	0.026	ug/L	NA	NA	NA	NA	NA	NA	
Toxaphene	<1.0	5.0	1.0	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: DBC	*2.72*			ug/L	*2.50*	*NA*	*109*	*40-130*			
Surrogate: TCMX	*1.93*			ug/L	*2.50*	*NA*	*77.0*	*40-120*			

Laboratory Control Sample (B9I0410-BS1)

Prepared: 09/21/09 Analyzed: 09/22/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	3.14	0.25	0.016	ug/L	2.50	NA	126	80-120	NA	NA	
4,4'-DDE	2.32	0.25	0.016	ug/L	2.50	NA	92.6	80-120	NA	NA	
4,4'-DDT	1.90	0.25	0.020	ug/L	2.50	NA	76.1	80-120	NA	NA	
Aldrin	1.98	0.25	0.018	ug/L	2.50	NA	79.3	60-110	NA	NA	
alpha-BHC	2.05	0.25	0.021	ug/L	2.50	NA	81.8	70-120	NA	NA	
alpha-Chlordane	2.36	0.25	0.016	ug/L	2.50	NA	94.3	80-120	NA	NA	
beta-BHC	2.33	0.25	0.016	ug/L	2.50	NA	93.3	80-120	NA	NA	
delta-BHC	2.46	0.25	0.014	ug/L	2.50	NA	98.2	80-120	NA	NA	
Dieldrin	2.43	0.25	0.024	ug/L	2.50	NA	97.1	80-120	NA	NA	
Endosulfan I	2.31	0.25	0.021	ug/L	2.50	NA	92.4	80-120	NA	NA	
Endosulfan II	2.51	0.25	0.019	ug/L	2.50	NA	100	80-120	NA	NA	
Endosulfan Sulfate	2.53	0.25	0.019	ug/L	2.50	NA	101	80-120	NA	NA	
Endrin	2.56	0.25	0.020	ug/L	2.50	NA	102	80-120	NA	NA	
Endrin Aldehyde	2.47	0.25	0.040	ug/L	2.50	NA	98.7	80-120	NA	NA	
Endrin Ketone	2.54	0.25	0.019	ug/L	2.50	NA	102	80-120	NA	NA	
gamma-BHC	2.20	0.25	0.020	ug/L	2.50	NA	88.1	80-120	NA	NA	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905092
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0410 - EPA 3510C

Laboratory Control Sample (B9I0410-BS1)

Prepared: 09/21/09 Analyzed: 09/22/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
gamma-Chlordane	2.35	0.25	0.042	ug/L	2.50	NA	94.1	80-120	NA	NA	
Heptachlor	2.21	0.25	0.018	ug/L	2.50	NA	88.5	60-110	NA	NA	
Heptachlor Epoxide	2.37	0.25	0.038	ug/L	2.50	NA	94.7	80-120	NA	NA	
Methoxychlor	2.28	0.25	0.026	ug/L	2.50	NA	91.3	80-120	NA	NA	
Surrogate: DBC	*2.64*			ug/L	*2.50*	*NA*	*105*	*40-130*			
Surrogate: TCMX	*1.69*			ug/L	*2.50*	*NA*	*67.7*	*40-120*			

Laboratory Control Sample Duplicate (B9I0410-BSD1)

Prepared: 09/21/09 Analyzed: 09/22/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	3.24	0.25	0.016	ug/L	2.50	NA	130	80-120	2.97	25	
4,4'-DDE	2.32	0.25	0.016	ug/L	2.50	NA	92.8	80-120	0.198	25	
4,4'-DDT	2.02	0.25	0.020	ug/L	2.50	NA	80.8	80-120	5.94	25	
Aldrin	1.88	0.25	0.018	ug/L	2.50	NA	75.2	60-110	5.31	25	
alpha-BHC	1.99	0.25	0.021	ug/L	2.50	NA	79.4	70-120	2.98	25	
alpha-Chlordane	2.39	0.25	0.016	ug/L	2.50	NA	95.7	80-120	1.39	25	
beta-BHC	2.34	0.25	0.016	ug/L	2.50	NA	93.8	80-120	0.455	25	
delta-BHC	2.49	0.25	0.014	ug/L	2.50	NA	99.6	80-120	1.40	25	
Dieldrin	2.47	0.25	0.024	ug/L	2.50	NA	98.8	80-120	1.68	25	
Endosulfan I	2.29	0.25	0.021	ug/L	2.50	NA	91.7	80-120	0.759	25	
Endosulfan II	2.60	0.25	0.019	ug/L	2.50	NA	104	80-120	3.71	25	
Endosulfan Sulfate	2.63	0.25	0.019	ug/L	2.50	NA	105	80-120	3.69	25	
Endrin	2.62	0.25	0.020	ug/L	2.50	NA	105	80-120	2.14	25	
Endrin Aldehyde	2.51	0.25	0.040	ug/L	2.50	NA	101	80-120	1.85	25	
Endrin Ketone	2.64	0.25	0.019	ug/L	2.50	NA	106	80-120	3.87	25	
gamma-BHC	2.15	0.25	0.020	ug/L	2.50	NA	86.2	80-120	2.25	25	
gamma-Chlordane	2.37	0.25	0.042	ug/L	2.50	NA	94.9	80-120	0.839	25	
Heptachlor	2.17	0.25	0.018	ug/L	2.50	NA	86.9	60-110	1.86	25	
Heptachlor Epoxide	2.38	0.25	0.038	ug/L	2.50	NA	95.1	80-120	0.371	25	
Methoxychlor	2.42	0.25	0.026	ug/L	2.50	NA	96.9	80-120	5.98	25	
Surrogate: DBC	*2.70*			ug/L	*2.50*	*NA*	*108*	*40-130*			
Surrogate: TCMX	*1.62*			ug/L	*2.50*	*NA*	*65.0*	*40-120*			

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0410 - EPA 3510C

Matrix Spike (B9I0410-MS1)

Source: 0905092-01 Prepared: 09/21/09 Analyzed: 09/22/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	3.19	0.24	0.015	ug/L	2.38	ND	134	50-130	NA	NA	
4,4'-DDE	2.40	0.24	0.015	ug/L	2.38	ND	101	50-130	NA	NA	
4,4'-DDT	2.03	0.24	0.019	ug/L	2.38	ND	85.1	50-130	NA	NA	
Aldrin	2.16	0.24	0.017	ug/L	2.38	ND	90.8	50-130	NA	NA	
alpha-BHC	2.26	0.24	0.020	ug/L	2.38	ND	95.1	50-130	NA	NA	
alpha-Chlordane	2.44	0.24	0.015	ug/L	2.38	ND	103	50-130	NA	NA	
beta-BHC	2.44	0.24	0.015	ug/L	2.38	ND	103	50-130	NA	NA	
delta-BHC	2.53	0.24	0.013	ug/L	2.38	ND	106	50-130	NA	NA	
Dieldrin	2.51	0.24	0.023	ug/L	2.38	ND	105	50-130	NA	NA	
Endosulfan I	2.37	0.24	0.020	ug/L	2.38	ND	99.7	50-130	NA	NA	
Endosulfan II	2.60	0.24	0.018	ug/L	2.38	ND	109	50-130	NA	NA	
Endosulfan Sulfate	2.60	0.24	0.018	ug/L	2.38	ND	109	50-130	NA	NA	
Endrin	2.65	0.24	0.019	ug/L	2.38	ND	111	50-130	NA	NA	
Endrin Aldehyde	2.57	0.24	0.038	ug/L	2.38	ND	108	50-130	NA	NA	
Endrin Ketone	2.62	0.24	0.018	ug/L	2.38	ND	110	50-130	NA	NA	
gamma-BHC	2.35	0.24	0.019	ug/L	2.38	ND	98.7	50-130	NA	NA	
gamma-Chlordane	2.43	0.24	0.040	ug/L	2.38	ND	102	50-130	NA	NA	
Heptachlor	2.40	0.24	0.017	ug/L	2.38	ND	101	50-130	NA	NA	
Heptachlor Epoxide	2.45	0.24	0.036	ug/L	2.38	ND	103	50-130	NA	NA	
Methoxychlor	2.39	0.24	0.025	ug/L	2.38	ND	101	50-130	NA	NA	
Surrogate: DBC	*2.69*			ug/L	*2.38*	*NA*	*113*	*40-130*			
Surrogate: TCMX	*2.03*			ug/L	*2.38*	*NA*	*85.4*	*40-120*			

Matrix Spike Duplicate (B9I0410-MSD1)

Source: 0905092-01 Prepared: 09/21/09 Analyzed: 09/22/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	3.16	0.24	0.015	ug/L	2.38	ND	133	50-130	0.727	25	
4,4'-DDE	2.37	0.24	0.015	ug/L	2.38	ND	99.7	50-130	1.15	25	
4,4'-DDT	1.93	0.24	0.019	ug/L	2.38	ND	81.1	50-130	4.86	25	
Aldrin	2.13	0.24	0.017	ug/L	2.38	ND	89.6	50-130	1.33	25	
alpha-BHC	2.28	0.24	0.020	ug/L	2.38	ND	95.8	50-130	0.784	25	
alpha-Chlordane	2.43	0.24	0.015	ug/L	2.38	ND	102	50-130	0.507	25	
beta-BHC	2.43	0.24	0.015	ug/L	2.38	ND	102	50-130	0.259	25	
delta-BHC	2.50	0.24	0.013	ug/L	2.38	ND	105	50-130	1.11	25	
Dieldrin	2.50	0.24	0.023	ug/L	2.38	ND	105	50-130	0.297	25	
Endosulfan I	2.42	0.24	0.020	ug/L	2.38	ND	102	50-130	2.16	25	
Endosulfan II	2.57	0.24	0.018	ug/L	2.38	ND	108	50-130	0.973	25	
Endosulfan Sulfate	2.57	0.24	0.018	ug/L	2.38	ND	108	50-130	1.27	25	
Endrin	2.63	0.24	0.019	ug/L	2.38	ND	111	50-130	0.623	25	
Endrin Aldehyde	2.52	0.24	0.038	ug/L	2.38	ND	106	50-130	1.81	25	
Endrin Ketone	2.58	0.24	0.018	ug/L	2.38	ND	108	50-130	1.44	25	
gamma-BHC	2.37	0.24	0.019	ug/L	2.38	ND	99.5	50-130	0.789	25	
gamma-Chlordane	2.42	0.24	0.040	ug/L	2.38	ND	102	50-130	0.501	25	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905092
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0410 - EPA 3510C

Matrix Spike Duplicate (B9I0410-MSD1) **Source: 0905092-01** Prepared: 09/21/09 Analyzed: 09/22/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Heptachlor	2.41	0.24	0.017	ug/L	2.38	ND	101	50-130	0.317	25	
Heptachlor Epoxide	2.46	0.24	0.036	ug/L	2.38	ND	103	50-130	0.346	25	
Methoxychlor	2.31	0.24	0.025	ug/L	2.38	ND	96.9	50-130	3.76	25	
Surrogate: DBC	*2.64*			ug/L	*2.38*	*NA*	*111*	*40-130*			
Surrogate: TCMX	*2.03*			ug/L	*2.38*	*NA*	*85.2*	*40-120*			

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0443 - EPA 3510C

Method Blank (B9I0443-BLK1)

Prepared: 09/22/09 Analyzed: 09/24/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	<0.25	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Alachlor	<0.19	0.50	0.19	ug/L	NA	NA	NA	NA	NA	NA	
Atrazine	<0.24	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	<0.34	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Cyanazine	<0.48	0.50	0.48	ug/L	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	<0.26	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
Desethylatrazine	<0.29	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Dimethenamid	<0.24	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
EPTC	<0.22	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Ethalfluralin	<0.47	0.50	0.47	ug/L	NA	NA	NA	NA	NA	NA	
Fonofos	<0.30	0.50	0.30	ug/L	NA	NA	NA	NA	NA	NA	
Metolachlor	<0.28	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
Metribuzin	<0.35	0.50	0.35	ug/L	NA	NA	NA	NA	NA	NA	
Pendimethalin	<0.25	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Phorate	<0.58	1.0	0.58	ug/L	NA	NA	NA	NA	NA	NA	
Prometon	<0.29	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Propachlor	<0.14	0.50	0.14	ug/L	NA	NA	NA	NA	NA	NA	
Propazine	<0.21	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Simazine	<0.32	0.50	0.32	ug/L	NA	NA	NA	NA	NA	NA	
Terbufos	<0.54	1.0	0.54	ug/L	NA	NA	NA	NA	NA	NA	
Triallate	<0.34	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Trifluralin	<0.21	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: Atrazine-d5	*9.69*			ug/L	*10.0*	*NA*	*96.9*	*50-120*			
Surrogate: Diazinon-d10	*9.49*			ug/L	*10.0*	*NA*	*94.9*	*50-120*			

Laboratory Control Sample (B9I0443-BS1)

Prepared: 09/22/09 Analyzed: 09/24/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	10.5	0.50	0.25	ug/L	10.0	NA	105	65-115	NA	NA	
Alachlor	10.5	0.50	0.19	ug/L	10.0	NA	105	65-115	NA	NA	
Atrazine	9.82	0.50	0.24	ug/L	10.0	NA	98.2	65-115	NA	NA	
Chlorpyrifos	9.95	0.50	0.34	ug/L	10.0	NA	99.5	65-115	NA	NA	
Cyanazine	9.00	0.50	0.48	ug/L	10.0	NA	90.0	65-115	NA	NA	
Deisopropylatrazine	7.54	0.50	0.26	ug/L	10.0	NA	75.4	65-115	NA	NA	
Desethylatrazine	10.1	0.50	0.29	ug/L	10.0	NA	101	65-115	NA	NA	
Dimethenamid	10.1	0.50	0.24	ug/L	10.0	NA	101	65-115	NA	NA	
EPTC	8.46	0.50	0.22	ug/L	10.0	NA	84.6	50-110	NA	NA	
Ethalfluralin	10.1	0.50	0.47	ug/L	10.0	NA	101	65-115	NA	NA	
Fonofos	10.5	0.50	0.30	ug/L	10.0	NA	105	55-115	NA	NA	
Metolachlor	9.98	0.50	0.28	ug/L	10.0	NA	99.8	70-120	NA	NA	
Metribuzin	9.71	0.50	0.35	ug/L	10.0	NA	97.1	70-120	NA	NA	
Pendimethalin	9.52	0.50	0.25	ug/L	10.0	NA	95.2	65-115	NA	NA	
Phorate	10.4	1.0	0.58	ug/L	10.0	NA	104	30-100	NA	NA	

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0443 - EPA 3510C

Laboratory Control Sample (B9I0443-BS1)

Prepared: 09/22/09 Analyzed: 09/24/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	10.1	0.50	0.29	ug/L	10.0	NA	101	70-120	NA	NA	
Propachlor	9.89	0.50	0.14	ug/L	10.0	NA	98.9	65-115	NA	NA	
Propazine	10.0	0.50	0.21	ug/L	10.0	NA	100	65-115	NA	NA	
Simazine	6.95	0.50	0.32	ug/L	10.0	NA	69.5	65-115	NA	NA	
Terbufos	9.61	1.0	0.54	ug/L	10.0	NA	96.1	30-100	NA	NA	
Triallate	9.69	0.50	0.34	ug/L	10.0	NA	96.9	65-115	NA	NA	
Trifluralin	9.54	0.50	0.21	ug/L	10.0	NA	95.4	65-115	NA	NA	
Surrogate: Atrazine-d5	*8.84*			ug/L	*10.0*	*NA*	*88.4*	*50-120*			
Surrogate: Diazinon-d10	*9.53*			ug/L	*10.0*	*NA*	*95.3*	*50-120*			

Laboratory Control Sample Duplicate (B9I0443-BSD1)

Prepared: 09/22/09 Analyzed: 09/24/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	10.4	0.50	0.25	ug/L	10.0	NA	104	65-115	0.573	25	
Alachlor	10.3	0.50	0.19	ug/L	10.0	NA	103	65-115	2.31	25	
Atrazine	9.88	0.50	0.24	ug/L	10.0	NA	98.8	65-115	0.609	25	
Chlorpyrifos	9.60	0.50	0.34	ug/L	10.0	NA	96.0	65-115	3.58	25	
Cyanazine	8.95	0.50	0.48	ug/L	10.0	NA	89.5	65-115	0.557	25	
Deisopropylatrazine	7.66	0.50	0.26	ug/L	10.0	NA	76.6	65-115	1.58	25	
Desethylatrazine	9.84	0.50	0.29	ug/L	10.0	NA	98.4	65-115	2.81	25	
Dimethenamid	9.84	0.50	0.24	ug/L	10.0	NA	98.4	65-115	2.71	25	
EPTC	8.13	0.50	0.22	ug/L	10.0	NA	81.3	50-110	3.98	30	
Ethalfluralin	9.40	0.50	0.47	ug/L	10.0	NA	94.0	65-115	7.28	30	
Fonofos	10.4	0.50	0.30	ug/L	10.0	NA	104	55-115	0.860	30	
Metolachlor	10.2	0.50	0.28	ug/L	10.0	NA	102	70-120	1.79	25	
Metribuzin	9.98	0.50	0.35	ug/L	10.0	NA	99.8	70-120	2.74	25	
Pendimethalin	9.53	0.50	0.25	ug/L	10.0	NA	95.3	65-115	0.105	25	
Phorate	10.3	1.0	0.58	ug/L	10.0	NA	103	30-100	1.06	30	
Prometon	10.4	0.50	0.29	ug/L	10.0	NA	104	70-120	3.02	30	
Propachlor	9.86	0.50	0.14	ug/L	10.0	NA	98.6	65-115	0.304	30	
Propazine	9.99	0.50	0.21	ug/L	10.0	NA	99.9	65-115	0.599	25	
Simazine	7.29	0.50	0.32	ug/L	10.0	NA	72.9	65-115	4.78	25	
Terbufos	9.39	1.0	0.54	ug/L	10.0	NA	93.9	30-100	2.32	30	
Triallate	9.62	0.50	0.34	ug/L	10.0	NA	96.2	65-115	0.725	25	
Trifluralin	8.78	0.50	0.21	ug/L	10.0	NA	87.8	65-115	8.30	25	
Surrogate: Atrazine-d5	*9.09*			ug/L	*10.0*	*NA*	*90.9*	*50-120*			
Surrogate: Diazinon-d10	*9.20*			ug/L	*10.0*	*NA*	*92.0*	*50-120*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905092
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0443 - EPA 3510C

Duplicate (B9I0443-DUP1) **Source: 0905092-01** Prepared: 09/22/09 Analyzed: 09/24/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	<0.25	0.50	0.25	ug/L	NA	ND	NA	NA	NA	30	
Alachlor	<0.19	0.50	0.19	ug/L	NA	ND	NA	NA	NA	30	
Atrazine	<0.24	0.50	0.24	ug/L	NA	ND	NA	NA	NA	30	
Chlorpyrifos	<0.34	0.50	0.34	ug/L	NA	ND	NA	NA	NA	30	
Cyanazine	<0.48	0.50	0.48	ug/L	NA	ND	NA	NA	NA	30	
Deisopropylatrazine	<0.26	0.50	0.26	ug/L	NA	ND	NA	NA	NA	30	
Desethylatrazine	<0.29	0.50	0.29	ug/L	NA	ND	NA	NA	NA	30	
Dimethenamid	<0.24	0.50	0.24	ug/L	NA	ND	NA	NA	NA	30	
EPTC	<0.22	0.50	0.22	ug/L	NA	ND	NA	NA	NA	30	
Ethalfluralin	<0.47	0.50	0.47	ug/L	NA	ND	NA	NA	NA	30	
Fonofos	<0.30	0.50	0.30	ug/L	NA	ND	NA	NA	NA	30	
Metolachlor	<0.28	0.50	0.28	ug/L	NA	ND	NA	NA	NA	30	
Metribuzin	<0.35	0.50	0.35	ug/L	NA	ND	NA	NA	NA	30	
Pendimethalin	<0.25	0.50	0.25	ug/L	NA	ND	NA	NA	NA	30	
Phorate	<0.58	1.0	0.58	ug/L	NA	ND	NA	NA	NA	30	
Prometon	<0.29	0.50	0.29	ug/L	NA	ND	NA	NA	NA	30	
Propachlor	<0.14	0.50	0.14	ug/L	NA	ND	NA	NA	NA	30	
Propazine	<0.21	0.50	0.21	ug/L	NA	ND	NA	NA	NA	30	
Simazine	<0.32	0.50	0.32	ug/L	NA	ND	NA	NA	NA	30	
Terbufos	<0.54	1.0	0.54	ug/L	NA	ND	NA	NA	NA	30	
Triallate	<0.34	0.50	0.34	ug/L	NA	ND	NA	NA	NA	30	
Trifluralin	<0.21	0.50	0.21	ug/L	NA	ND	NA	NA	NA	30	
Surrogate: Atrazine-d5	*10.6*			ug/L	*10.2*	*NA*	*104*	*50-120*			
Surrogate: Diazinon-d10	*10.9*			ug/L	*10.2*	*NA*	*107*	*50-120*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905092
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

0905092

Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number: 23/19-0B05.S.1R1300
Project Name: UMORE
№ 27907

COC _____ of _____
Project Manager: JME
Project Contact: KJN
Sampled by: KSJ
Laboratory: Braun

Number of Containers/Preservative — Water: Volatile Organics (Pres.)*1; Semivolatile Organics *2; Dissolved Metals (HNO_3); Total Metals (HNO_3); General (Unpreserved)*3; Cyanide (NaOH); Nutrients (H_2SO_4)*4; Oil and Grease (H_2SO_4); Sulfide (Zn Acetate); Methane; Bacteria ($Na_2S_2O_3$); DRO (HCl). Soil: VOCs (2-oz tared MeOH)*1; GRO, BTEX (2-oz tared MeOH)*1; DRO (2-oz tared) - 25 grams; Metals (2-oz unpreserved); SVOCs (2 or 4-oz unpres.)*2; % Moisture (plastic vial, unpres.); Total No. Of Containers

Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Volatile Organics (Pres.)*1	Semivolatile Organics *2	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	General (Unpreserved)*3	Cyanide (NaOH)	Nutrients (H_2SO_4)*4	Oil and Grease (H_2SO_4)	Sulfide (Zn Acetate)	Methane	Bacteria ($Na_2S_2O_3$)	DRO (HCl)	VOCs (2-oz tared MeOH)*1	GRO, BTEX (2-oz tared MeOH)*1	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.)*2	% Moisture (plastic vial, unpres.)	Total No. Of Containers	Remarks
1. WSW-207607	9/15/09	1235	✓		✓			~~6~~ 2						3						(MS/MSD)						15	Table 1, Ag 1&2,
2. WSW-208402	↓	1400	✓		✓			4						1												5	CC Pest, Nitrogen
3. WSW-208405	↓	1515	✓		✓			~~4~~ 5						1												6	↓ ↓
4. FB-1	↓		✓			✓		5						1												6	↓ ↓
5.																											
6.																											
7.																											
8.																											
9.																											
10.																											
11.																											
12.																											CH1 4.7°C #2 4.8°C

Common Parameter/Container - Preservation Key
*1 - Volatile Organics = BTEX, GRO, TPH, Full List
*2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
*3 - General = pH, Chloride, Flouride, Alkalinity, TSS, TDS, TS, Sulfate
*4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice? Y/N	Date	Time	Received by:	Date	Time
Kim Channer	Y	9/16/09			9/16/09	1040
Relinquished By:	On Ice? Y N	Date	Time	Received by:	Date	Time

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☒ Sampler ☐ Other _____
Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

H:\LIGS\TDFORMS\Chain Of Custody Form RLG Rev. 07/01/05

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Web: braunintertec.com

Ms. Kelly Neppl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

October 06, 2009

Work Order #: 0905209

RE: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300

Dear Kelly Neppl:

Braun Intertec Corporation received samples for the project identified above on September 21, 2009. Analytical results are summarized in the following report.

All routine quality assurance procedures were followed, unless otherwise noted.

Analytical results are reported on an "as received" basis unless otherwise noted. Where possible, the samples will be retained by the laboratory for 14 days following issuance of the initial final report. The samples will be disposed of or returned at that time. Arrangements can be made for extended storage by contacting me at this time.

We appreciate your decision to use Braun Intertec Corporation for this project. We are committed to being your vendor of choice to meet your analytical chemistry needs.

If you have any questions please contact me at the above phone number.

Sincerely,

Steven J. Albrecht

Steven J. Albrecht
Associate Principal

Certification/Accreditation Numbers

Minnesota Department of Health: 027-053-117 Wisconsin DNR: 999462640

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

How to Use this Report

In order to get the most out of the information presented in this report please refer to the following explanations as to how the data in this report is tied together and how some of the terms are defined.

Qualifiers and Abbreviations are defined in the following section. You will find these codes used throughout the report in headers and in note sections to designate a unique fact about the data to which they are associated.

The Case Narrative gives a "story" about the analysis and results. Here you will find greater elaboration on relevant qualifiers as well as an explanation of anything of particular note in the data. This is a discussion of the data in terms of quality control and chemistry. It is a summary of any deviations that could affect the usefulness of the data. This is not an interpretation as to how this information relates to regulatory compliance, toxicity, or hazardous characterization. These items are beyond the scope of this report.

The Sample Summary provides detail on sample receipt. The association between Client sample ID and the Laboratory sample ID are defined here; this information is valuable to have when discussing results with your project manager. Sample collection and receipt dates and times are provided here as well. General notes regarding the work order are also documented here. This is a mini "case narrative" that describes any anomalies regarding the condition of the samples upon arrival to the laboratory or special circumstances regarding the work order.

The Conditions Upon Receipt summarizes the results of specific checks that have been performed at sample receipt. This includes items like custody documentation, sample condition, and temperature at receipt. Each "cooler" is identified and the conditions associated with that cooler are documented. A "cooler" is defined as the larger container used to transport the individual samples. In most cases this is a standard recreational cooler but it can be a box, plastic bag, or other container.

The laboratory results are summarized in the following sections. Data is broken down into major categories for convenience. An example of such a category would be "Total Petroleum Hydrocarbons." Here you would find data that references the testing of such parameters as diesel range organics and gasoline range organics. Other categories are similarly mapped. The batch number is associated with each sample. This is important to evaluate Quality Control (QC) data. Surrogate results samples are provided with each sample. Laboratory control limits are provided for comparison (see below). The reference method is also identified. If a method is denoted with an "M" (e.g. EPA 1234(M)) this means that it has been modified. An explanation of the modification will be found in the Case Narrative. A result is given with appropriate units. If a soil sample is dry-weight corrected then the word "dry" will appear next to the units. If the word "dry" does not appear then the result is "as received."

The Method Reporting Limit (MRL) and Method Detection Limit (MDL) are provided. It is important to understand these terms. The MRL is a level that has been empirically verified to provide reliable quantitation of results. Results that are equal to or greater than this value will show up in bold. They are considered "hits." The MDL is a statistically derived number that indicates an estimated concentration at which an analyte can be detected above the noise level. If a result is less than the MRL but greater than the MDL then it is considered an estimate. Such a result is reported with a "J" flag denoting that it has been detected but that the result is an estimate.

In this specific report format, the majority of the analyses are reported without estimated concentrations less than the MRL. For these analyses, if a result is less than the MRL, the result is given as less than the MRL (e.g. if the MRL = 10 then a less than result would be given as "<10"). However, for the Organochlorine Pesticides in water and MDA List 1 Pesticides in water analyses, if a result is less than the MRL but greater than the MDL, then an estimated result is reported with a "J" flag. If a result for either of these two analyses is less than the MDL, then the result is given as less than the MDL.

The Quality Control (QC) samples are documented in the following section. Here you will find the preparation batches associated with each sample from the results section. The sample preparation method is also defined here. Accuracy is represented here in terms of a percent recovery as compared to a known value. Precision is represented as a relative percent difference between two duplicate sample aliquots. The laboratory control limits are provided as a means to evaluate the quality control data. If the result falls outside the laboratory control limits this simply means that it is outside what is typical for the laboratory and is noted accordingly. This does not mean that the data is invalid. Laboratory control limits are generally tighter than most program limits. This is a very important distinction. How the data is ultimately used determines its validity. Program requirements are defined in the Quality Assurance Project Plan (QAPP) governing the project. If your project manager is aware of your specific program requirements then a note will be made in the case narrative if the data fails to meet any of these requirements.

The last section contains copies of important documents and/or instrument printouts relevant to the report. This includes the chain of custody. It also may include items like chromatograms or spectra.

Please note that this report is paginated and must be reproduced in its entirety.

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Qualifiers and Abbreviations

vn	The surrogate recovery is below the laboratory generated control limits.
vfa	The method reporting limit (MRL) was raised for one or more analytes; a dilution of the sample was necessary due to high analyte levels and/or matrix interferences.
sur	One or more surrogate recoveries reported with this sample analysis are outside of the laboratory control limits.
qo	The relative percent difference (RPD) was outside of laboratory control limits for the matrix spike (MS) and matrix spike duplicate (MSD) samples.
qn	The spike recovery is outside of laboratory control limits for the matrix spike (MS) and/or the matrix spike duplicate (MSD).
J	Detected but below the Method Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
COC	Chain of Custody
dry	Sample results reported on a dry weight basis
MDL	Method Detection Limit
MRL	Method Reporting Limit
NA	Not Applicable
ND	Analyte NOT DETECTED
NR	Not Reported
%Rec	Percent Recovery
RPD	Relative Percent Difference
VOC	Volatile Organic Compound

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC4-TT12	0905209-01	Soil	09/17/09 11:00	09/21/09 10:30
M-1	0905209-02	Soil	09/17/09 00:00	09/21/09 10:30
SOC4-TT6	0905209-03	Soil	09/18/09 09:30	09/21/09 10:30
SOC5-SS7	0905209-04	Soil	09/18/09 12:00	09/21/09 10:30
SOC5-SS11	0905209-05	Soil	09/18/09 12:30	09/21/09 10:30

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Conditions Upon Receipt

Cooler: Cooler 1

Temperature:	4.9 °C	**COC Included:**	Yes	**Custody Seals Used:**	No
Temperature Blank:	No	**COC Complete:**	Yes	**Custody Seals Intact:**	NA
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	No
Preservation Confirmed:	No	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC4-TT12

0905209-01 (Soil)

9/17/09 11:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**82**	0.050	0.010	% Wt	B9I0470	9/23/09 6:03	9/23/09 15:49	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.029	0.029	0.0017	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
4,4'-DDE	<0.029	0.029	0.0030	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
4,4'-DDT	<0.029	0.029	0.0027	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
Aldrin	<0.029	0.029	0.0037	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
alpha-BHC	<0.029	0.029	0.0027	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
alpha-Chlordane	<0.029	0.029	0.0023	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
beta-BHC	<0.029	0.029	0.0027	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
delta-BHC	<0.029	0.029	0.0021	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
Dieldrin	<0.029	0.029	0.0026	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
Endosulfan I	<0.029	0.029	0.0033	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
Endosulfan II	<0.029	0.029	0.0024	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
Endosulfan Sulfate	<0.029	0.029	0.0027	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
Endrin	<0.029	0.029	0.0033	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
Endrin Aldehyde	<0.029	0.029	0.011	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qn, qo
Endrin Ketone	<0.029	0.029	0.0036	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
gamma-BHC	<0.029	0.029	0.0029	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
gamma-Chlordane	<0.029	0.029	0.0020	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
Heptachlor	<0.029	0.029	0.0063	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
Heptachlor Epoxide	<0.029	0.029	0.0050	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
Methoxychlor	<0.029	0.029	0.0024	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
Toxaphene	<0.58	0.58	0.11	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	
Surr: DBC	*85.6 %*	*Limits: 40-160%*			*B9I0612*	*9/29/09 8:48*	*10/2/09 0:44*	*EPA 8081A*	
Surr: TCMX	*94.7 %*	*Limits: 60-130%*			*B9I0612*	*9/29/09 8:48*	*10/2/09 0:18*	*EPA 8081A*	

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.048	0.048	0.012	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Alachlor	<0.048	0.048	0.0084	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Atrazine	<0.048	0.048	0.012	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Chlorpyrifos	<0.048	0.048	0.0084	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Cyanazine	<0.048	0.048	0.0096	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Deisopropylatrazine	<0.048	0.048	0.0096	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Desethylatrazine	<0.048	0.048	0.013	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Dimethenamid	<0.048	0.048	0.0072	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
EPTC	<0.048	0.048	0.0072	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Ethalfluralin	<0.048	0.048	0.017	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	

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952.995.2000 Phone
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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC4-TT12

0905209-01 (Soil)

9/17/09 11:00

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Fonofos	<0.048	0.048	0.0048	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Metolachlor	<0.048	0.048	0.0036	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Metribuzin	<0.048	0.048	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Pendimethalin	<0.048	0.048	0.019	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Phorate	<0.048	0.048	0.0072	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Prometon	<0.048	0.048	0.0072	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Propachlor	<0.048	0.048	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Propazine	<0.048	0.048	0.0084	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Simazine	<0.048	0.048	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Terbufos	<0.048	0.048	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Triallate	<0.048	0.048	0.0060	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Trifluralin	<0.048	0.048	0.017	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Surr: Atrazine-d5	*76.2 %*	*Limits: 50-125%*			*B9I0441*	*9/22/09 6:31*	*9/23/09 23:56*	*EPA 8270C*	
Surr: Diazinon-d10	*45.5 %*	*Limits: 35-120%*			*B9I0441*	*9/22/09 6:31*	*9/23/09 23:56*	*EPA 8270C*	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.061	0.061	0.011	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:52	EPA 8270C	
2,4,5-T.P.	<0.061	0.061	0.0085	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:52	EPA 8270C	
2,4-D	<0.061	0.061	0.015	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:52	EPA 8270C	
2,4-D.B.	<0.061	0.061	0.013	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:52	EPA 8270C	
Bentazon	<0.061	0.061	0.011	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:52	EPA 8270C	
Dicamba	<0.061	0.061	0.0098	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:52	EPA 8270C	
Dinoseb	<0.061	0.061	0.0061	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:52	EPA 8270C	
M.C.P.A.	<0.061	0.061	0.017	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:52	EPA 8270C	
Pentachlorophenol	<0.061	0.061	0.0085	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:52	EPA 8270C	
Picloram	<0.061	0.061	0.013	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:52	EPA 8270C	qn
Triclopyr	<0.061	0.061	0.0073	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:52	EPA 8270C	
Surr: D.C.A.A.	*67.2 %*	*Limits: 50-125%*			*B9I0428*	*9/21/09 13:29*	*9/29/09 22:52*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

M-1

0905209-02 (Soil)

9/17/09 0:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**84**	0.050	0.010	% Wt	B9I0470	9/23/09 6:03	9/23/09 15:49	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.030	0.030	0.0018	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
4,4'-DDE	<0.030	0.030	0.0031	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
4,4'-DDT	<0.030	0.030	0.0028	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
Aldrin	<0.030	0.030	0.0038	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
alpha-BHC	<0.030	0.030	0.0028	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
alpha-Chlordane	<0.030	0.030	0.0024	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
beta-BHC	<0.030	0.030	0.0028	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
delta-BHC	<0.030	0.030	0.0022	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
Dieldrin	<0.030	0.030	0.0026	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
Endosulfan I	<0.030	0.030	0.0033	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
Endosulfan II	<0.030	0.030	0.0025	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
Endosulfan Sulfate	<0.030	0.030	0.0028	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
Endrin	<0.030	0.030	0.0033	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
Endrin Aldehyde	<0.030	0.030	0.011	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qn, qo
Endrin Ketone	<0.030	0.030	0.0037	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
gamma-BHC	<0.030	0.030	0.0030	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
gamma-Chlordane	<0.030	0.030	0.0020	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
Heptachlor	<0.030	0.030	0.0065	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
Heptachlor Epoxide	<0.030	0.030	0.0051	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
Methoxychlor	<0.030	0.030	0.0025	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
Toxaphene	<0.60	0.60	0.11	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	
Surr: DBC	*88.7 %*	*Limits: 40-160%*			*B9I0612*	*9/29/09 8:48*	*10/2/09 0:44*	*EPA 8081A*	
Surr: TCMX	*88.8 %*	*Limits: 60-130%*			*B9I0612*	*9/29/09 8:48*	*10/2/09 0:44*	*EPA 8081A*	

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.048	0.048	0.012	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Alachlor	<0.048	0.048	0.0084	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Atrazine	<0.048	0.048	0.012	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Chlorpyrifos	<0.048	0.048	0.0084	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Cyanazine	<0.048	0.048	0.0096	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Deisopropylatrazine	<0.048	0.048	0.0096	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Desethylatrazine	<0.048	0.048	0.013	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Dimethenamid	<0.048	0.048	0.0072	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
EPTC	<0.048	0.048	0.0072	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Ethalfluralin	<0.048	0.048	0.017	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

M-1

0905209-02 (Soil)

9/17/09 0:00

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Fonofos	<0.048	0.048	0.0048	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Metolachlor	<0.048	0.048	0.0036	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Metribuzin	<0.048	0.048	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Pendimethalin	<0.048	0.048	0.019	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Phorate	<0.048	0.048	0.0072	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Prometon	<0.048	0.048	0.0072	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Propachlor	<0.048	0.048	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Propazine	<0.048	0.048	0.0084	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Simazine	<0.048	0.048	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Terbufos	<0.048	0.048	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Triallate	<0.048	0.048	0.0060	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Trifluralin	<0.048	0.048	0.017	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Surr: Atrazine-d5	*91.9 %*	*Limits: 50-125%*			*B9I0441*	*9/22/09 6:31*	*9/24/09 0:22*	*EPA 8270C*	
Surr: Diazinon-d10	*59.2 %*	*Limits: 35-120%*			*B9I0441*	*9/22/09 6:31*	*9/24/09 0:22*	*EPA 8270C*	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.060	0.060	0.011	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:17	EPA 8270C	
2,4,5-T.P.	<0.060	0.060	0.0084	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:17	EPA 8270C	
2,4-D	<0.060	0.060	0.014	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:17	EPA 8270C	
2,4-D.B.	<0.060	0.060	0.013	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:17	EPA 8270C	
Bentazon	<0.060	0.060	0.011	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:17	EPA 8270C	
Dicamba	<0.060	0.060	0.0096	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:17	EPA 8270C	
Dinoseb	<0.060	0.060	0.0060	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:17	EPA 8270C	
M.C.P.A.	<0.060	0.060	0.017	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:17	EPA 8270C	
Pentachlorophenol	<0.060	0.060	0.0084	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:17	EPA 8270C	
Picloram	<0.060	0.060	0.013	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:17	EPA 8270C	qn
Triclopyr	<0.060	0.060	0.0072	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:17	EPA 8270C	
Surr: D.C.A.A.	*66.4 %*	*Limits: 50-125%*			*B9I0428*	*9/21/09 13:29*	*9/29/09 23:17*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC4-TT6

0905209-03 (Soil)

9/18/09 9:30

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**85**	0.050	0.010	% Wt	B9I0470	9/23/09 6:03	9/23/09 15:49	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.028	0.028	0.0017	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
4,4'-DDE	<0.028	0.028	0.0029	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
4,4'-DDT	<0.028	0.028	0.0026	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
Aldrin	<0.028	0.028	0.0036	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
alpha-BHC	<0.028	0.028	0.0026	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
alpha-Chlordane	<0.028	0.028	0.0022	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
beta-BHC	<0.028	0.028	0.0026	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
delta-BHC	<0.028	0.028	0.0020	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
Dieldrin	<0.028	0.028	0.0025	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
Endosulfan I	<0.028	0.028	0.0031	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
Endosulfan II	<0.028	0.028	0.0024	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
Endosulfan Sulfate	<0.028	0.028	0.0026	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
Endrin	<0.028	0.028	0.0031	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
Endrin Aldehyde	<0.028	0.028	0.011	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qn, qo
Endrin Ketone	<0.028	0.028	0.0035	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
gamma-BHC	<0.028	0.028	0.0028	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
gamma-Chlordane	<0.028	0.028	0.0019	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
Heptachlor	<0.028	0.028	0.0060	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
Heptachlor Epoxide	<0.028	0.028	0.0048	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
Methoxychlor	<0.028	0.028	0.0024	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
Toxaphene	<0.56	0.56	0.11	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	
Surr: DBC	*91.6 %*	*Limits: 40-160%*			*B9I0612*	*9/29/09 8:48*	*10/2/09 1:10*	*EPA 8081A*	
Surr: TCMX	*87.6 %*	*Limits: 60-130%*			*B9I0612*	*9/29/09 8:48*	*10/2/09 1:10*	*EPA 8081A*	

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.047	0.047	0.012	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Alachlor	<0.047	0.047	0.0082	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Atrazine	<0.047	0.047	0.012	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Chlorpyrifos	<0.047	0.047	0.0082	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Cyanazine	<0.047	0.047	0.0094	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Deisopropylatrazine	<0.047	0.047	0.0094	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Desethylatrazine	<0.047	0.047	0.013	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Dimethenamid	<0.047	0.047	0.0070	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
EPTC	<0.047	0.047	0.0070	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Ethalfluralin	<0.047	0.047	0.016	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	

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UMP018878

BRAUN INTERTEC

11001 Hampshire Ave. S.
Minneapolis, MN 55438
952.995.2000 Phone
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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC4-TT6

0905209-03 (Soil)

9/18/09 9:30

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Fonofos	<0.047	0.047	0.0047	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Metolachlor	<0.047	0.047	0.0035	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Metribuzin	<0.047	0.047	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Pendimethalin	<0.047	0.047	0.019	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Phorate	<0.047	0.047	0.0070	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Prometon	<0.047	0.047	0.0070	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Propachlor	<0.047	0.047	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Propazine	<0.047	0.047	0.0082	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Simazine	<0.047	0.047	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Terbufos	<0.047	0.047	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Triallate	<0.047	0.047	0.0059	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Trifluralin	<0.047	0.047	0.016	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Surr: Atrazine-d5	*81.6 %*	*Limits: 50-125%*			*B9I0441*	*9/22/09 6:31*	*9/24/09 0:47*	*EPA 8270C*	
Surr: Diazinon-d10	*46.8 %*	*Limits: 35-120%*			*B9I0441*	*9/22/09 6:31*	*9/24/09 0:47*	*EPA 8270C*	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.059	0.059	0.011	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:42	EPA 8270C	
2,4,5-T.P.	<0.059	0.059	0.0082	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:42	EPA 8270C	
2,4-D	<0.059	0.059	0.014	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:42	EPA 8270C	
2,4-D.B.	<0.059	0.059	0.013	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:42	EPA 8270C	
Bentazon	<0.059	0.059	0.011	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:42	EPA 8270C	
Dicamba	<0.059	0.059	0.0094	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:42	EPA 8270C	
Dinoseb	<0.059	0.059	0.0059	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:42	EPA 8270C	
M.C.P.A.	<0.059	0.059	0.016	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:42	EPA 8270C	
Pentachlorophenol	<0.059	0.059	0.0082	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:42	EPA 8270C	
Picloram	<0.059	0.059	0.013	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:42	EPA 8270C	qn
Triclopyr	<0.059	0.059	0.0070	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:42	EPA 8270C	
Surr: D.C.A.A.	*61.2 %*	*Limits: 50-125%*			*B9I0428*	*9/21/09 13:29*	*9/29/09 23:42*	*EPA 8270C*	

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11001 Hampshire Ave. S.
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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-SS7

0905209-04 (Soil)

9/18/09 12:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**93**	0.050	0.010	% Wt	B9I0470	9/23/09 6:03	9/23/09 15:49	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.026	0.026	0.0016	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
4,4'-DDE	<0.026	0.026	0.0027	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
4,4'-DDT	<0.026	0.026	0.0024	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
Aldrin	<0.026	0.026	0.0033	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
alpha-BHC	<0.026	0.026	0.0024	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
alpha-Chlordane	<0.026	0.026	0.0021	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
beta-BHC	<0.026	0.026	0.0024	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
delta-BHC	<0.026	0.026	0.0019	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
Dieldrin	<0.026	0.026	0.0023	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
Endosulfan I	<0.026	0.026	0.0029	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
Endosulfan II	<0.026	0.026	0.0022	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
Endosulfan Sulfate	<0.026	0.026	0.0024	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
Endrin	<0.026	0.026	0.0029	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
Endrin Aldehyde	<0.026	0.026	0.0099	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qn, qo
Endrin Ketone	<0.026	0.026	0.0032	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
gamma-BHC	<0.026	0.026	0.0026	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
gamma-Chlordane	<0.026	0.026	0.0018	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
Heptachlor	<0.026	0.026	0.0056	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
Heptachlor Epoxide	<0.026	0.026	0.0045	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
Methoxychlor	<0.026	0.026	0.0022	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
Toxaphene	<0.52	0.52	0.099	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	
Surr: DBC	*92.0 %*	*Limits: 40-160%*			*B9I0612*	*9/29/09 8:48*	*10/2/09 2:02*	*EPA 8081A*	
Surr: TCMX	*102 %*	*Limits: 60-130%*			*B9I0612*	*9/29/09 8:48*	*10/2/09 1:36*	*EPA 8081A*	

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.043	0.043	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Alachlor	<0.043	0.043	0.0075	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Atrazine	<0.043	0.043	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Chlorpyrifos	<0.043	0.043	0.0075	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Cyanazine	<0.043	0.043	0.0086	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Deisopropylatrazine	<0.043	0.043	0.0086	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Desethylatrazine	<0.043	0.043	0.012	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Dimethenamid	<0.043	0.043	0.0064	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
EPTC	<0.043	0.043	0.0064	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Ethalfluralin	<0.043	0.043	0.015	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-SS7

0905209-04 (Soil)

9/18/09 12:00

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Fonofos	<0.043	0.043	0.0043	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Metolachlor	<0.043	0.043	0.0032	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Metribuzin	<0.043	0.043	0.0097	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Pendimethalin	<0.043	0.043	0.017	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Phorate	<0.043	0.043	0.0064	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Prometon	<0.043	0.043	0.0064	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Propachlor	<0.043	0.043	0.0097	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Propazine	<0.043	0.043	0.0075	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Simazine	<0.043	0.043	0.0097	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Terbufos	<0.043	0.043	0.0097	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Triallate	<0.043	0.043	0.0054	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Trifluralin	<0.043	0.043	0.015	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Surr: Atrazine-d5	*85.3 %*	*Limits: 50-125%*			*B9I0441*	*9/22/09 6:31*	*9/24/09 1:13*	*EPA 8270C*	
Surr: Diazinon-d10	*83.6 %*	*Limits: 35-120%*			*B9I0441*	*9/22/09 6:31*	*9/24/09 1:13*	*EPA 8270C*	

Acid Extractable Pesticides (MDA List 2)

Sample Note(s): sur, vfa

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.27	0.27	0.048	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 12:00	EPA 8270C	
2,4,5-T.P.	<0.27	0.27	0.038	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 12:00	EPA 8270C	
2,4-D	<0.27	0.27	0.064	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 12:00	EPA 8270C	
2,4-D.B.	<0.27	0.27	0.059	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 12:00	EPA 8270C	
Bentazon	<0.27	0.27	0.048	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 12:00	EPA 8270C	
Dicamba	<0.27	0.27	0.043	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 12:00	EPA 8270C	
Dinoseb	<0.27	0.27	0.027	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 12:00	EPA 8270C	
M.C.P.A.	<0.27	0.27	0.075	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 12:00	EPA 8270C	
Pentachlorophenol	<0.27	0.27	0.038	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 12:00	EPA 8270C	
Picloram	<0.27	0.27	0.059	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 12:00	EPA 8270C	qn
Triclopyr	<0.27	0.27	0.032	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 12:00	EPA 8270C	
Surr: D.C.A.A.	*8.00 %*	*Limits: 50-125%*			*B9I0428*	*9/21/09 13:29*	*9/30/09 12:00*	*EPA 8270C*	*vn*

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UMP018881

BRAUN INTERTEC

11001 Hampshire Ave. S.
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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-SS11

0905209-05 (Soil)

9/18/09 12:30

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**88**	0.050	0.010	% Wt	B9I0470	9/23/09 6:03	9/23/09 15:49	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.028	0.028	0.0017	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
4,4'-DDE	<0.028	0.028	0.0029	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
4,4'-DDT	<0.028	0.028	0.0025	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
Aldrin	<0.028	0.028	0.0035	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
alpha-BHC	<0.028	0.028	0.0025	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
alpha-Chlordane	<0.028	0.028	0.0022	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
beta-BHC	<0.028	0.028	0.0025	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
delta-BHC	<0.028	0.028	0.0020	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
Dieldrin	<0.028	0.028	0.0024	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
Endosulfan I	<0.028	0.028	0.0031	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
Endosulfan II	<0.028	0.028	0.0023	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
Endosulfan Sulfate	<0.028	0.028	0.0025	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
Endrin	<0.028	0.028	0.0031	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
Endrin Aldehyde	<0.028	0.028	0.011	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qn, qo
Endrin Ketone	<0.028	0.028	0.0034	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
gamma-BHC	<0.028	0.028	0.0028	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
gamma-Chlordane	<0.028	0.028	0.0019	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
Heptachlor	<0.028	0.028	0.0060	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
Heptachlor Epoxide	<0.028	0.028	0.0048	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
Methoxychlor	<0.028	0.028	0.0023	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
Toxaphene	<0.55	0.55	0.11	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	
Surr: DBC	*87.8 %*	*Limits: 40-160%*			*B9I0612*	*9/29/09 8:48*	*10/2/09 2:28*	*EPA 8081A*	
Surr: TCMX	*84.0 %*	*Limits: 60-130%*			*B9I0612*	*9/29/09 8:48*	*10/2/09 2:02*	*EPA 8081A*	

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.045	0.045	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Alachlor	<0.045	0.045	0.0079	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Atrazine	<0.045	0.045	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Chlorpyrifos	<0.045	0.045	0.0079	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Cyanazine	<0.045	0.045	0.0091	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Deisopropylatrazine	<0.045	0.045	0.0091	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Desethylatrazine	<0.045	0.045	0.012	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Dimethenamid	<0.045	0.045	0.0068	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
EPTC	<0.045	0.045	0.0068	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Ethalfluralin	<0.045	0.045	0.016	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-SS11

0905209-05 (Soil)

9/18/09 12:30

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Fonofos	<0.045	0.045	0.0045	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Metolachlor	<0.045	0.045	0.0034	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Metribuzin	<0.045	0.045	0.010	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Pendimethalin	<0.045	0.045	0.018	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Phorate	<0.045	0.045	0.0068	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Prometon	<0.045	0.045	0.0068	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Propachlor	<0.045	0.045	0.010	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Propazine	<0.045	0.045	0.0079	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Simazine	<0.045	0.045	0.010	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Terbufos	<0.045	0.045	0.010	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Triallate	<0.045	0.045	0.0057	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Trifluralin	<0.045	0.045	0.016	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Surr: Atrazine-d5	*83.6 %*	*Limits: 50-125%*			*B9I0441*	*9/22/09 6:31*	*9/24/09 1:39*	*EPA 8270C*	
Surr: Diazinon-d10	*78.1 %*	*Limits: 35-120%*			*B9I0441*	*9/22/09 6:31*	*9/24/09 1:39*	*EPA 8270C*	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.057	0.057	0.010	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 0:32	EPA 8270C	
2,4,5-T.P.	<0.057	0.057	0.0079	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 0:32	EPA 8270C	
2,4-D	<0.057	0.057	0.014	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 0:32	EPA 8270C	
2,4-D.B.	<0.057	0.057	0.012	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 0:32	EPA 8270C	
Bentazon	<0.057	0.057	0.010	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 0:32	EPA 8270C	
Dicamba	<0.057	0.057	0.0091	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 0:32	EPA 8270C	
Dinoseb	<0.057	0.057	0.0057	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 0:32	EPA 8270C	
M.C.P.A.	<0.057	0.057	0.016	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 0:32	EPA 8270C	
Pentachlorophenol	<0.057	0.057	0.0079	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 0:32	EPA 8270C	
Picloram	<0.057	0.057	0.012	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 0:32	EPA 8270C	qn
Triclopyr	<0.057	0.057	0.0068	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 0:32	EPA 8270C	
Surr: D.C.A.A.	*54.6 %*	*Limits: 50-125%*			*B9I0428*	*9/21/09 13:29*	*9/30/09 0:32*	*EPA 8270C*	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Classical Chemistry Parameters - Quality Control

Batch B9I0470 - % Solids

Method Blank (B9I0470-BLK1)

Prepared & Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	<0.050	0.050	0.010	% Wt	NA	NA	NA	NA	NA	NA	

Duplicate (B9I0470-DUP1)

Source: 0905201-03

Prepared & Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	70.3	0.050	0.010	% Wt	NA	74.1	NA	NA	5.32	20	

Standard Reference Material (B9I0470-SRM1)

Prepared & Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	88.7			% Wt	91.3	NA	97.2	90-110	NA	NA	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0465 - EPA 3546

Laboratory Control Sample (B9I0465-BS1)

Prepared: 09/22/09 Analyzed: 09/25/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.216	0.023	0.0014	mg/kg	0.234	NA	92.3	70-130	NA	NA	
4,4'-DDE	0.216	0.023	0.0024	mg/kg	0.234	NA	92.2	70-130	NA	NA	
4,4'-DDT	0.257	0.023	0.0022	mg/kg	0.234	NA	110	70-130	NA	NA	
Aldrin	0.171	0.023	0.0030	mg/kg	0.234	NA	72.9	70-130	NA	NA	
alpha-BHC	0.187	0.023	0.0022	mg/kg	0.234	NA	79.8	70-130	NA	NA	
alpha-Chlordane	0.213	0.023	0.0019	mg/kg	0.234	NA	90.7	70-130	NA	NA	
beta-BHC	0.210	0.023	0.0022	mg/kg	0.234	NA	89.8	70-130	NA	NA	
Chlordane (tech)	<0.19	0.19		mg/kg	NA	NA	NA	70-130	NA	NA	
delta-BHC	0.213	0.023	0.0017	mg/kg	0.234	NA	90.7	70-130	NA	NA	
Dieldrin	0.216	0.023	0.0021	mg/kg	0.234	NA	92.2	70-130	NA	NA	
Endosulfan I	0.215	0.023	0.0026	mg/kg	0.234	NA	91.7	70-130	NA	NA	
Endosulfan II	0.212	0.023	0.0020	mg/kg	0.234	NA	90.5	70-130	NA	NA	
Endosulfan Sulfate	0.220	0.023	0.0022	mg/kg	0.234	NA	93.7	70-130	NA	NA	
Endrin	0.223	0.023	0.0026	mg/kg	0.234	NA	95.3	70-130	NA	NA	
Endrin Aldehyde	0.215	0.023	0.0090	mg/kg	0.234	NA	91.7	70-130	NA	NA	
Endrin Ketone	0.221	0.023	0.0029	mg/kg	0.234	NA	94.3	70-130	NA	NA	
gamma-BHC	0.201	0.023	0.0023	mg/kg	0.234	NA	85.7	70-130	NA	NA	
gamma-Chlordane	0.215	0.023	0.0016	mg/kg	0.234	NA	91.8	70-130	NA	NA	
Heptachlor	0.201	0.023	0.0051	mg/kg	0.234	NA	85.7	70-130	NA	NA	
Heptachlor Epoxide	0.214	0.023	0.0040	mg/kg	0.234	NA	91.4	70-130	NA	NA	
Methoxychlor	0.235	0.023	0.0020	mg/kg	0.234	NA	100	70-130	NA	NA	
Toxaphene	<0.47	0.47	0.090	mg/kg	NA	NA	NA	70-130	NA	NA	
Surrogate: DBC	*0.223*			mg/kg	*0.234*	*NA*	*95.0*	*40-160*			
Surrogate: TCMX	*0.180*			mg/kg	*0.234*	*NA*	*76.9*	*60-130*			

Laboratory Control Sample Duplicate (B9I0465-BSD1)

Prepared: 09/22/09 Analyzed: 09/25/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: DBC	*0.221*			mg/kg	*0.239*	*NA*	*92.3*	*40-160*			
Surrogate: TCMX	*0.176*			mg/kg	*0.239*	*NA*	*73.7*	*60-130*			

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0465 - EPA 3546

Matrix Spike (B9I0465-MS1)

Source: 0905209-01 Prepared: 09/22/09 Analyzed: 09/25/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.178	0.031	0.0018	mg/kg dry	0.303	ND	58.6	50-130	NA	NA	
4,4'-DDE	0.183	0.031	0.0032	mg/kg dry	0.303	ND	60.3	50-130	NA	NA	
4,4'-DDT	0.181	0.031	0.0028	mg/kg dry	0.303	ND	59.9	50-130	NA	NA	
Aldrin	0.171	0.031	0.0039	mg/kg dry	0.303	ND	56.4	50-130	NA	NA	
alpha-BHC	0.164	0.031	0.0028	mg/kg dry	0.303	ND	54.0	50-130	NA	NA	
alpha-Chlordane	0.177	0.031	0.0024	mg/kg dry	0.303	ND	58.5	50-130	NA	NA	
beta-BHC	0.182	0.031	0.0028	mg/kg dry	0.303	ND	60.1	50-130	NA	NA	
Chlordane (tech)	<0.24	0.24		mg/kg dry	NA	0.00	NA	50-130	NA	NA	
delta-BHC	0.140	0.031	0.0022	mg/kg dry	0.303	ND	46.1	50-130	NA	NA	
Dieldrin	0.184	0.031	0.0027	mg/kg dry	0.303	ND	60.6	50-130	NA	NA	
Endosulfan I	0.178	0.031	0.0034	mg/kg dry	0.303	ND	58.8	50-130	NA	NA	
Endosulfan II	0.156	0.031	0.0026	mg/kg dry	0.303	ND	51.5	50-130	NA	NA	
Endosulfan Sulfate	0.104	0.031	0.0028	mg/kg dry	0.303	ND	34.3	50-130	NA	NA	
Endrin	0.194	0.031	0.0034	mg/kg dry	0.303	ND	64.0	50-130	NA	NA	
Endrin Aldehyde	0.0968	0.031	0.012	mg/kg dry	0.303	ND	31.9	50-130	NA	NA	
Endrin Ketone	0.196	0.031	0.0038	mg/kg dry	0.303	ND	64.6	50-130	NA	NA	
gamma-BHC	0.171	0.031	0.0031	mg/kg dry	0.303	ND	56.4	50-130	NA	NA	
gamma-Chlordane	0.187	0.031	0.0021	mg/kg dry	0.303	ND	61.7	50-130	NA	NA	
Heptachlor	0.156	0.031	0.0066	mg/kg dry	0.303	ND	51.5	50-130	NA	NA	
Heptachlor Epoxide	0.184	0.031	0.0053	mg/kg dry	0.303	ND	60.7	50-130	NA	NA	
Methoxychlor	0.219	0.031	0.0026	mg/kg dry	0.303	ND	72.2	50-130	NA	NA	
Toxaphene	<0.61	0.61	0.12	mg/kg dry	NA	ND	NA	50-130	NA	NA	
Surrogate: DBC	*0.187*			mg/kg dry	*0.303*	*NA*	*61.8*	*40-160*			
Surrogate: TCMX	*0.163*			mg/kg dry	*0.303*	*NA*	*53.9*	*60-130*			*vn*

Matrix Spike Duplicate (B9I0465-MSD1)

Source: 0905209-01 Prepared: 09/22/09 Analyzed: 09/25/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: DBC	*0.137*			mg/kg dry	*0.292*	*NA*	*47.1*	*40-160*			
Surrogate: TCMX	*0.137*			mg/kg dry	*0.292*	*NA*	*47.0*	*60-130*			*vn*

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0612 - EPA 3546

Method Blank (B9I0612-BLK1)

Prepared: 09/29/09 Analyzed: 10/01/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	<0.025	0.025	0.0015	mg/kg	NA	NA	NA	NA	NA	NA	
4,4'-DDE	<0.025	0.025	0.0026	mg/kg	NA	NA	NA	NA	NA	NA	
4,4'-DDT	<0.025	0.025	0.0023	mg/kg	NA	NA	NA	NA	NA	NA	
Aldrin	<0.025	0.025	0.0032	mg/kg	NA	NA	NA	NA	NA	NA	
alpha-BHC	<0.025	0.025	0.0023	mg/kg	NA	NA	NA	NA	NA	NA	
alpha-Chlordane	<0.025	0.025	0.0020	mg/kg	NA	NA	NA	NA	NA	NA	
beta-BHC	<0.025	0.025	0.0023	mg/kg	NA	NA	NA	NA	NA	NA	
delta-BHC	<0.025	0.025	0.0018	mg/kg	NA	NA	NA	NA	NA	NA	
Dieldrin	<0.025	0.025	0.0022	mg/kg	NA	NA	NA	NA	NA	NA	
Endosulfan I	<0.025	0.025	0.0028	mg/kg	NA	NA	NA	NA	NA	NA	
Endosulfan II	<0.025	0.025	0.0021	mg/kg	NA	NA	NA	NA	NA	NA	
Endosulfan Sulfate	<0.025	0.025	0.0023	mg/kg	NA	NA	NA	NA	NA	NA	
Endrin	<0.025	0.025	0.0028	mg/kg	NA	NA	NA	NA	NA	NA	
Endrin Aldehyde	<0.025	0.025	0.0096	mg/kg	NA	NA	NA	NA	NA	NA	
Endrin Ketone	<0.025	0.025	0.0031	mg/kg	NA	NA	NA	NA	NA	NA	
gamma-BHC	<0.025	0.025	0.0025	mg/kg	NA	NA	NA	NA	NA	NA	
gamma-Chlordane	<0.025	0.025	0.0017	mg/kg	NA	NA	NA	NA	NA	NA	
Heptachlor	<0.025	0.025	0.0054	mg/kg	NA	NA	NA	NA	NA	NA	
Heptachlor Epoxide	<0.025	0.025	0.0043	mg/kg	NA	NA	NA	NA	NA	NA	
Methoxychlor	<0.025	0.025	0.0021	mg/kg	NA	NA	NA	NA	NA	NA	
Toxaphene	<0.50	0.50	0.096	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: DBC	*0.135*			mg/kg	*0.123*	*NA*	*110*	*40-160*			
Surrogate: TCMX	*0.132*			mg/kg	*0.123*	*NA*	*107*	*60-130*			

Laboratory Control Sample (B9I0612-BS1)

Prepared: 09/29/09 Analyzed: 10/01/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.186	0.024	0.0015	mg/kg	0.195	NA	95.4	70-130	NA	NA	
4,4'-DDE	0.182	0.024	0.0025	mg/kg	0.195	NA	93.5	70-130	NA	NA	
4,4'-DDT	0.185	0.024	0.0022	mg/kg	0.195	NA	94.9	70-130	NA	NA	
Aldrin	0.183	0.024	0.0031	mg/kg	0.195	NA	94.3	70-130	NA	NA	
alpha-BHC	0.177	0.024	0.0022	mg/kg	0.195	NA	91.0	70-130	NA	NA	
alpha-Chlordane	0.179	0.024	0.0019	mg/kg	0.195	NA	92.1	70-130	NA	NA	
beta-BHC	0.178	0.024	0.0022	mg/kg	0.195	NA	91.3	70-130	NA	NA	
delta-BHC	0.178	0.024	0.0018	mg/kg	0.195	NA	91.4	70-130	NA	NA	
Dieldrin	0.179	0.024	0.0021	mg/kg	0.195	NA	92.0	70-130	NA	NA	
Endosulfan I	0.175	0.024	0.0027	mg/kg	0.195	NA	90.2	70-130	NA	NA	
Endosulfan II	0.175	0.024	0.0020	mg/kg	0.195	NA	90.0	70-130	NA	NA	
Endosulfan Sulfate	0.181	0.024	0.0022	mg/kg	0.195	NA	92.8	70-130	NA	NA	
Endrin	0.180	0.024	0.0027	mg/kg	0.195	NA	92.5	70-130	NA	NA	
Endrin Aldehyde	0.181	0.024	0.0093	mg/kg	0.195	NA	93.1	70-130	NA	NA	
Endrin Ketone	0.173	0.024	0.0030	mg/kg	0.195	NA	88.7	70-130	NA	NA	
gamma-BHC	0.175	0.024	0.0024	mg/kg	0.195	NA	89.9	70-130	NA	NA	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0612 - EPA 3546

Laboratory Control Sample (B9I0612-BS1)

Prepared: 09/29/09 Analyzed: 10/01/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
gamma-Chlordane	0.181	0.024	0.0017	mg/kg	0.195	NA	93.0	70-130	NA	NA	
Heptachlor	0.180	0.024	0.0053	mg/kg	0.195	NA	92.4	70-130	NA	NA	
Heptachlor Epoxide	0.175	0.024	0.0042	mg/kg	0.195	NA	89.9	70-130	NA	NA	
Methoxychlor	0.190	0.024	0.0020	mg/kg	0.195	NA	97.5	70-130	NA	NA	
Surrogate: DBC	*0.132*			mg/kg	*0.122*	*NA*	*108*	*40-160*			
Surrogate: TCMX	*0.129*			mg/kg	*0.122*	*NA*	*106*	*60-130*			

Laboratory Control Sample Duplicate (B9I0612-BSD1)

Prepared: 09/29/09 Analyzed: 10/01/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.182	0.025	0.0015	mg/kg	0.199	NA	91.2	70-130	2.04	25	
4,4'-DDE	0.177	0.025	0.0026	mg/kg	0.199	NA	88.7	70-130	2.84	25	
4,4'-DDT	0.186	0.025	0.0023	mg/kg	0.199	NA	93.1	70-130	0.582	25	
Aldrin	0.177	0.025	0.0032	mg/kg	0.199	NA	89.0	70-130	3.33	25	
alpha-BHC	0.172	0.025	0.0023	mg/kg	0.199	NA	86.3	70-130	2.87	25	
alpha-Chlordane	0.170	0.025	0.0020	mg/kg	0.199	NA	85.4	70-130	5.05	25	
beta-BHC	0.176	0.025	0.0023	mg/kg	0.199	NA	88.3	70-130	0.873	25	
delta-BHC	0.176	0.025	0.0018	mg/kg	0.199	NA	88.1	70-130	1.24	25	
Dieldrin	0.176	0.025	0.0022	mg/kg	0.199	NA	88.1	70-130	1.82	25	
Endosulfan I	0.163	0.025	0.0028	mg/kg	0.199	NA	81.7	70-130	7.43	25	
Endosulfan II	0.154	0.025	0.0021	mg/kg	0.199	NA	77.4	70-130	12.5	25	
Endosulfan Sulfate	0.178	0.025	0.0023	mg/kg	0.199	NA	89.4	70-130	1.28	25	
Endrin	0.186	0.025	0.0028	mg/kg	0.199	NA	93.4	70-130	3.39	25	
Endrin Aldehyde	0.180	0.025	0.0096	mg/kg	0.199	NA	90.5	70-130	0.338	25	
Endrin Ketone	0.176	0.025	0.0031	mg/kg	0.199	NA	88.5	70-130	2.14	25	
gamma-BHC	0.172	0.025	0.0025	mg/kg	0.199	NA	86.0	70-130	1.88	25	
gamma-Chlordane	0.176	0.025	0.0017	mg/kg	0.199	NA	88.5	70-130	2.52	25	
Heptachlor	0.176	0.025	0.0054	mg/kg	0.199	NA	88.4	70-130	1.97	25	
Heptachlor Epoxide	0.177	0.025	0.0043	mg/kg	0.199	NA	88.7	70-130	1.17	25	
Methoxychlor	0.188	0.025	0.0021	mg/kg	0.199	NA	94.1	70-130	1.10	25	
Surrogate: DBC	*0.128*			mg/kg	*0.125*	*NA*	*103*	*40-160*			
Surrogate: TCMX	*0.123*			mg/kg	*0.125*	*NA*	*98.3*	*60-130*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0612 - EPA 3546

Matrix Spike (B9I0612-MS1)

Source: 0905209-01RE1 Prepared: 09/29/09 Analyzed: 10/01/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.142	0.028	0.0017	mg/kg dry	0.225	ND	63.0	50-130	NA	NA	
4,4'-DDE	0.140	0.028	0.0029	mg/kg dry	0.225	ND	62.2	50-130	NA	NA	
4,4'-DDT	0.142	0.028	0.0026	mg/kg dry	0.225	ND	63.0	50-130	NA	NA	
Aldrin	0.134	0.028	0.0036	mg/kg dry	0.225	ND	59.5	50-130	NA	NA	
alpha-BHC	0.125	0.028	0.0026	mg/kg dry	0.225	ND	55.7	50-130	NA	NA	
alpha-Chlordane	0.136	0.028	0.0023	mg/kg dry	0.225	ND	60.3	50-130	NA	NA	
beta-BHC	0.131	0.028	0.0026	mg/kg dry	0.225	ND	58.0	50-130	NA	NA	
delta-BHC	0.132	0.028	0.0020	mg/kg dry	0.225	ND	58.5	50-130	NA	NA	
Dieldrin	0.136	0.028	0.0025	mg/kg dry	0.225	ND	60.3	50-130	NA	NA	
Endosulfan I	0.132	0.028	0.0032	mg/kg dry	0.225	ND	58.8	50-130	NA	NA	
Endosulfan II	0.134	0.028	0.0024	mg/kg dry	0.225	ND	59.5	50-130	NA	NA	
Endosulfan Sulfate	0.142	0.028	0.0026	mg/kg dry	0.225	ND	62.9	50-130	NA	NA	
Endrin	0.138	0.028	0.0032	mg/kg dry	0.225	ND	61.1	50-130	NA	NA	
Endrin Aldehyde	0.0294	0.028	0.011	mg/kg dry	0.225	ND	13.1	50-130	NA	NA	
Endrin Ketone	0.142	0.028	0.0035	mg/kg dry	0.225	ND	62.9	50-130	NA	NA	
gamma-BHC	0.127	0.028	0.0028	mg/kg dry	0.225	ND	56.4	50-130	NA	NA	
gamma-Chlordane	0.139	0.028	0.0019	mg/kg dry	0.225	ND	61.8	50-130	NA	NA	
Heptachlor	0.134	0.028	0.0061	mg/kg dry	0.225	ND	59.7	50-130	NA	NA	
Heptachlor Epoxide	0.134	0.028	0.0048	mg/kg dry	0.225	ND	59.4	50-130	NA	NA	
Methoxychlor	0.137	0.028	0.0024	mg/kg dry	0.225	ND	60.8	50-130	NA	NA	
Surrogate: DBC	*0.102*			mg/kg dry	*0.141*	*NA*	*72.8*	*40-160*			
Surrogate: TCMX	*0.0887*			mg/kg dry	*0.141*	*NA*	*63.0*	*60-130*			

Matrix Spike Duplicate (B9I0612-MSD1)

Source: 0905209-01RE1 Prepared: 09/29/09 Analyzed: 10/01/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.200	0.029	0.0017	mg/kg dry	0.228	ND	87.7	50-130	33.9	25	
4,4'-DDE	0.188	0.029	0.0030	mg/kg dry	0.228	ND	82.2	50-130	29.0	25	
4,4'-DDT	0.202	0.029	0.0026	mg/kg dry	0.228	ND	88.4	50-130	34.8	25	
Aldrin	0.190	0.029	0.0036	mg/kg dry	0.228	ND	83.3	50-130	34.6	25	
alpha-BHC	0.187	0.029	0.0026	mg/kg dry	0.228	ND	82.0	50-130	39.4	25	
alpha-Chlordane	0.183	0.029	0.0023	mg/kg dry	0.228	ND	80.1	50-130	29.4	25	
beta-BHC	0.190	0.029	0.0026	mg/kg dry	0.228	ND	83.2	50-130	37.0	25	
delta-BHC	0.192	0.029	0.0021	mg/kg dry	0.228	ND	84.0	50-130	37.0	25	
Dieldrin	0.192	0.029	0.0025	mg/kg dry	0.228	ND	84.0	50-130	34.1	25	
Endosulfan I	0.188	0.029	0.0032	mg/kg dry	0.228	ND	82.6	50-130	34.9	25	
Endosulfan II	0.187	0.029	0.0024	mg/kg dry	0.228	ND	81.9	50-130	32.9	25	
Endosulfan Sulfate	0.196	0.029	0.0026	mg/kg dry	0.228	ND	85.9	50-130	32.1	25	
Endrin	0.195	0.029	0.0032	mg/kg dry	0.228	ND	85.6	50-130	34.6	25	
Endrin Aldehyde	0.0520	0.029	0.011	mg/kg dry	0.228	ND	22.8	50-130	55.5	25	
Endrin Ketone	0.196	0.029	0.0035	mg/kg dry	0.228	ND	85.9	50-130	32.1	25	
gamma-BHC	0.187	0.029	0.0029	mg/kg dry	0.228	ND	82.0	50-130	38.3	25	
gamma-Chlordane	0.191	0.029	0.0019	mg/kg dry	0.228	ND	83.9	50-130	31.6	25	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0612 - EPA 3546

Matrix Spike Duplicate (B9I0612-MSD1) **Source: 0905209-01RE1** Prepared: 09/29/09 Analyzed: 10/01/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Heptachlor	0.197	0.029	0.0062	mg/kg dry	0.228	ND	86.3	50-130	37.8	25	
Heptachlor Epoxide	0.191	0.029	0.0049	mg/kg dry	0.228	ND	83.6	50-130	35.1	25	
Methoxychlor	0.208	0.029	0.0024	mg/kg dry	0.228	ND	91.4	50-130	41.4	25	
Surrogate: DBC	*0.145*			mg/kg dry	*0.143*	*NA*	*102*	*40-160*			
Surrogate: TCMX	*0.140*			mg/kg dry	*0.143*	*NA*	*98.6*	*60-130*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0441 - EPA 3545

Method Blank (B9I0441-BLK1)

Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	<0.040	0.040	0.010	mg/kg	NA	NA	NA	NA	NA	NA	
Alachlor	<0.040	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Atrazine	<0.040	0.040	0.010	mg/kg	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	<0.040	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Cyanazine	<0.040	0.040	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	<0.040	0.040	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Desethylatrazine	<0.040	0.040	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Dimethenamid	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
EPTC	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Ethalfluralin	<0.040	0.040	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Fonofos	<0.040	0.040	0.0040	mg/kg	NA	NA	NA	NA	NA	NA	
Metolachlor	<0.040	0.040	0.0030	mg/kg	NA	NA	NA	NA	NA	NA	
Metribuzin	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Pendimethalin	<0.040	0.040	0.016	mg/kg	NA	NA	NA	NA	NA	NA	
Phorate	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Prometon	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Propachlor	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Propazine	<0.040	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Simazine	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Terbufos	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Triallate	<0.040	0.040	0.0050	mg/kg	NA	NA	NA	NA	NA	NA	
Trifluralin	<0.040	0.040	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: Atrazine-d5	*0.357*			mg/kg	*0.330*	*NA*	*108*	*50-125*			
Surrogate: Diazinon-d10	*0.359*			mg/kg	*0.330*	*NA*	*109*	*35-120*			

Laboratory Control Sample (B9I0441-BS1)

Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.334	0.039	0.0098	mg/kg	0.326	NA	102	70-120	NA	NA	
Alachlor	0.313	0.039	0.0069	mg/kg	0.326	NA	96.0	70-120	NA	NA	
Atrazine	0.291	0.039	0.0098	mg/kg	0.326	NA	89.2	70-120	NA	NA	
Chlorpyrifos	0.300	0.039	0.0069	mg/kg	0.326	NA	92.0	70-120	NA	NA	
Cyanazine	0.279	0.039	0.0078	mg/kg	0.326	NA	85.6	70-120	NA	NA	
Deisopropylatrazine	0.249	0.039	0.0078	mg/kg	0.326	NA	76.4	65-115	NA	NA	
Desethylatrazine	0.299	0.039	0.011	mg/kg	0.326	NA	91.7	70-120	NA	NA	
Dimethenamid	0.320	0.039	0.0059	mg/kg	0.326	NA	98.1	70-120	NA	NA	
EPTC	0.276	0.039	0.0059	mg/kg	0.326	NA	84.7	60-105	NA	NA	
Ethalfluralin	0.303	0.039	0.014	mg/kg	0.326	NA	93.0	70-120	NA	NA	
Fonofos	0.317	0.039	0.0039	mg/kg	0.326	NA	97.2	70-115	NA	NA	
Metolachlor	0.318	0.039	0.0029	mg/kg	0.326	NA	97.4	70-120	NA	NA	
Metribuzin	0.316	0.039	0.0088	mg/kg	0.326	NA	97.0	70-120	NA	NA	
Pendimethalin	0.313	0.039	0.016	mg/kg	0.326	NA	95.8	70-120	NA	NA	
Phorate	0.259	0.039	0.0059	mg/kg	0.326	NA	79.5	70-115	NA	NA	

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UMP018891

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0441 - EPA 3545

Laboratory Control Sample (B9I0441-BS1)

Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	0.316	0.039	0.0059	mg/kg	0.326	NA	96.9	70-120	NA	NA	
Propachlor	0.304	0.039	0.0088	mg/kg	0.326	NA	93.3	70-115	NA	NA	
Propazine	0.307	0.039	0.0069	mg/kg	0.326	NA	94.0	70-120	NA	NA	
Simazine	0.236	0.039	0.0088	mg/kg	0.326	NA	72.2	60-115	NA	NA	
Terbufos	0.236	0.039	0.0088	mg/kg	0.326	NA	72.3	70-115	NA	NA	
Triallate	0.303	0.039	0.0049	mg/kg	0.326	NA	93.0	70-115	NA	NA	
Trifluralin	0.267	0.039	0.014	mg/kg	0.326	NA	81.7	70-115	NA	NA	
Surrogate: Atrazine-d5	*0.274*			mg/kg	*0.326*	*NA*	*84.0*	*50-125*			
Surrogate: Diazinon-d10	*0.285*			mg/kg	*0.326*	*NA*	*87.2*	*35-120*			

Laboratory Control Sample Duplicate (B9I0441-BSD1)

Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.339	0.039	0.0098	mg/kg	0.326	NA	104	70-120	1.42	20	
Alachlor	0.337	0.039	0.0068	mg/kg	0.326	NA	104	70-120	7.39	20	
Atrazine	0.307	0.039	0.0098	mg/kg	0.326	NA	94.1	70-120	5.22	20	
Chlorpyrifos	0.312	0.039	0.0068	mg/kg	0.326	NA	95.9	70-120	4.02	20	
Cyanazine	0.338	0.039	0.0078	mg/kg	0.326	NA	104	70-120	19.1	20	
Deisopropylatrazine	0.275	0.039	0.0078	mg/kg	0.326	NA	84.3	65-115	9.70	20	
Desethylatrazine	0.328	0.039	0.011	mg/kg	0.326	NA	101	70-120	9.32	20	
Dimethenamid	0.336	0.039	0.0059	mg/kg	0.326	NA	103	70-120	4.74	20	
EPTC	0.282	0.039	0.0059	mg/kg	0.326	NA	86.5	60-105	1.97	20	
Ethalfluralin	0.301	0.039	0.014	mg/kg	0.326	NA	92.5	70-120	0.670	20	
Fonofos	0.338	0.039	0.0039	mg/kg	0.326	NA	104	70-115	6.44	20	
Metolachlor	0.335	0.039	0.0029	mg/kg	0.326	NA	103	70-120	5.36	20	
Metribuzin	0.315	0.039	0.0088	mg/kg	0.326	NA	96.8	70-120	0.337	20	
Pendimethalin	0.331	0.039	0.016	mg/kg	0.326	NA	102	70-120	5.65	20	
Phorate	0.300	0.039	0.0059	mg/kg	0.326	NA	92.1	70-115	14.6	20	
Prometon	0.332	0.039	0.0059	mg/kg	0.326	NA	102	70-120	5.00	20	
Propachlor	0.326	0.039	0.0088	mg/kg	0.326	NA	100	70-115	6.80	20	
Propazine	0.323	0.039	0.0068	mg/kg	0.326	NA	99.2	70-120	5.25	20	
Simazine	0.239	0.039	0.0088	mg/kg	0.326	NA	73.5	60-115	1.65	20	
Terbufos	0.277	0.039	0.0088	mg/kg	0.326	NA	85.1	70-115	16.1	20	
Triallate	0.318	0.039	0.0049	mg/kg	0.326	NA	97.6	70-115	4.70	20	
Trifluralin	0.297	0.039	0.014	mg/kg	0.326	NA	91.1	70-115	10.7	20	
Surrogate: Atrazine-d5	*0.303*			mg/kg	*0.326*	*NA*	*93.0*	*50-125*			
Surrogate: Diazinon-d10	*0.305*			mg/kg	*0.326*	*NA*	*93.6*	*35-120*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0441 - EPA 3545

Matrix Spike (B9I0441-MS1)

Source: 0904966-01 Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.362	0.046	0.012	mg/kg dry	0.387	ND	93.5	50-120	NA	NA	
Alachlor	0.368	0.046	0.0081	mg/kg dry	0.387	ND	95.3	55-120	NA	NA	
Atrazine	0.368	0.046	0.012	mg/kg dry	0.387	ND	95.1	60-120	NA	NA	
Chlorpyrifos	0.293	0.046	0.0081	mg/kg dry	0.387	ND	75.8	40-125	NA	NA	
Cyanazine	0.365	0.046	0.0093	mg/kg dry	0.387	ND	94.4	55-125	NA	NA	
Deisopropylatrazine	0.326	0.046	0.0093	mg/kg dry	0.387	ND	84.3	55-120	NA	NA	
Desethylatrazine	0.389	0.046	0.013	mg/kg dry	0.387	ND	101	60-125	NA	NA	
Dimethenamid	0.380	0.046	0.0070	mg/kg dry	0.387	ND	98.3	55-120	NA	NA	
EPTC	0.319	0.046	0.0070	mg/kg dry	0.387	ND	82.4	40-105	NA	NA	
Ethalfluralin	0.308	0.046	0.016	mg/kg dry	0.387	ND	79.7	40-120	NA	NA	
Fonofos	0.344	0.046	0.0046	mg/kg dry	0.387	ND	89.0	45-115	NA	NA	
Metolachlor	0.366	0.046	0.0035	mg/kg dry	0.387	ND	94.6	50-125	NA	NA	
Metribuzin	0.385	0.046	0.010	mg/kg dry	0.387	ND	99.6	55-125	NA	NA	
Pendimethalin	0.312	0.046	0.019	mg/kg dry	0.387	ND	80.7	40-120	NA	NA	
Phorate	0.341	0.046	0.0070	mg/kg dry	0.387	ND	88.2	40-115	NA	NA	
Prometon	0.387	0.046	0.0070	mg/kg dry	0.387	ND	100	60-125	NA	NA	
Propachlor	0.381	0.046	0.010	mg/kg dry	0.387	ND	98.5	60-115	NA	NA	
Propazine	0.374	0.046	0.0081	mg/kg dry	0.387	ND	96.7	55-120	NA	NA	
Simazine	0.280	0.046	0.010	mg/kg dry	0.387	ND	72.3	50-120	NA	NA	
Terbufos	0.297	0.046	0.010	mg/kg dry	0.387	ND	76.7	40-120	NA	NA	
Triallate	0.305	0.046	0.0058	mg/kg dry	0.387	ND	78.9	40-115	NA	NA	
Trifluralin	0.272	0.046	0.016	mg/kg dry	0.387	ND	70.3	40-115	NA	NA	
Surrogate: Atrazine-d5	*0.345*			mg/kg dry	*0.387*	*NA*	*89.2*	*50-125*			
Surrogate: Diazinon-d10	*0.356*			mg/kg dry	*0.387*	*NA*	*92.0*	*35-120*			

Matrix Spike (B9I0441-MS2)

Source: 0904980-06 Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.325	0.048	0.012	mg/kg dry	0.396	ND	82.2	50-120	NA	NA	
Alachlor	0.329	0.048	0.0084	mg/kg dry	0.396	ND	83.0	55-120	NA	NA	
Atrazine	0.350	0.048	0.012	mg/kg dry	0.396	ND	88.5	60-120	NA	NA	
Chlorpyrifos	0.235	0.048	0.0084	mg/kg dry	0.396	ND	59.3	40-125	NA	NA	
Cyanazine	0.334	0.048	0.0096	mg/kg dry	0.396	ND	84.5	55-125	NA	NA	
Deisopropylatrazine	0.313	0.048	0.0096	mg/kg dry	0.396	ND	79.1	55-120	NA	NA	
Desethylatrazine	0.363	0.048	0.013	mg/kg dry	0.396	ND	91.6	60-125	NA	NA	
Dimethenamid	0.341	0.048	0.0072	mg/kg dry	0.396	ND	86.2	55-120	NA	NA	
EPTC	0.302	0.048	0.0072	mg/kg dry	0.396	ND	76.2	40-105	NA	NA	
Ethalfluralin	0.225	0.048	0.017	mg/kg dry	0.396	ND	56.8	40-120	NA	NA	
Fonofos	0.305	0.048	0.0048	mg/kg dry	0.396	ND	77.0	45-115	NA	NA	
Metolachlor	0.321	0.048	0.0036	mg/kg dry	0.396	ND	81.2	50-125	NA	NA	
Metribuzin	0.333	0.048	0.011	mg/kg dry	0.396	ND	84.1	55-125	NA	NA	
Pendimethalin	0.244	0.048	0.019	mg/kg dry	0.396	ND	61.6	40-120	NA	NA	
Phorate	0.276	0.048	0.0072	mg/kg dry	0.396	ND	69.8	40-115	NA	NA	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0441 - EPA 3545

Matrix Spike (B9I0441-MS2)

Source: 0904980-06 Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	0.345	0.048	0.0072	mg/kg dry	0.396	ND	87.2	60-125	NA	NA	
Propachlor	0.353	0.048	0.011	mg/kg dry	0.396	ND	89.1	60-115	NA	NA	
Propazine	0.340	0.048	0.0084	mg/kg dry	0.396	ND	86.0	55-120	NA	NA	
Simazine	0.274	0.048	0.011	mg/kg dry	0.396	ND	69.3	50-120	NA	NA	
Terbufos	0.231	0.048	0.011	mg/kg dry	0.396	ND	58.4	40-120	NA	NA	
Triallate	0.248	0.048	0.0060	mg/kg dry	0.396	ND	62.7	40-115	NA	NA	
Trifluralin	0.209	0.048	0.017	mg/kg dry	0.396	ND	52.8	40-115	NA	NA	
Surrogate: Atrazine-d5	*0.332*			mg/kg dry	*0.396*	*NA*	*83.8*	*50-125*			
Surrogate: Diazinon-d10	*0.289*			mg/kg dry	*0.396*	*NA*	*73.1*	*35-120*			

Matrix Spike Duplicate (B9I0441-MSD1)

Source: 0904966-01 Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.324	0.046	0.012	mg/kg dry	0.385	ND	84.3	50-120	10.8	25	
Alachlor	0.334	0.046	0.0081	mg/kg dry	0.385	ND	86.7	55-120	9.91	25	
Atrazine	0.344	0.046	0.012	mg/kg dry	0.385	ND	89.4	60-120	6.64	25	
Chlorpyrifos	0.259	0.046	0.0081	mg/kg dry	0.385	ND	67.4	40-125	12.2	25	
Cyanazine	0.330	0.046	0.0093	mg/kg dry	0.385	ND	85.8	55-125	10.0	25	
Deisopropylatrazine	0.318	0.046	0.0093	mg/kg dry	0.385	ND	82.6	55-120	2.50	25	
Desethylatrazine	0.363	0.046	0.013	mg/kg dry	0.385	ND	94.4	60-125	6.82	25	
Dimethenamid	0.345	0.046	0.0070	mg/kg dry	0.385	ND	89.7	55-120	9.61	25	
EPTC	0.280	0.046	0.0070	mg/kg dry	0.385	ND	72.8	40-105	12.8	25	
Ethalfluralin	0.272	0.046	0.016	mg/kg dry	0.385	ND	70.6	40-120	12.6	25	
Fonofos	0.309	0.046	0.0046	mg/kg dry	0.385	ND	80.4	45-115	10.6	25	
Metolachlor	0.317	0.046	0.0035	mg/kg dry	0.385	ND	82.3	50-125	14.4	25	
Metribuzin	0.360	0.046	0.010	mg/kg dry	0.385	ND	93.6	55-125	6.68	25	
Pendimethalin	0.269	0.046	0.019	mg/kg dry	0.385	ND	69.9	40-120	14.8	25	
Phorate	0.295	0.046	0.0070	mg/kg dry	0.385	ND	76.6	40-115	14.5	25	
Prometon	0.350	0.046	0.0070	mg/kg dry	0.385	ND	90.9	60-125	10.2	25	
Propachlor	0.358	0.046	0.010	mg/kg dry	0.385	ND	92.9	60-115	6.32	25	
Propazine	0.337	0.046	0.0081	mg/kg dry	0.385	ND	87.5	55-120	10.5	25	
Simazine	0.254	0.046	0.010	mg/kg dry	0.385	ND	66.1	50-120	9.42	25	
Terbufos	0.248	0.046	0.010	mg/kg dry	0.385	ND	64.4	40-120	17.9	25	
Triallate	0.271	0.046	0.0058	mg/kg dry	0.385	ND	70.3	40-115	12.0	25	
Trifluralin	0.238	0.046	0.016	mg/kg dry	0.385	ND	61.8	40-115	13.3	25	
Surrogate: Atrazine-d5	*0.321*			mg/kg dry	*0.385*	*NA*	*83.5*	*50-125*			
Surrogate: Diazinon-d10	*0.293*			mg/kg dry	*0.385*	*NA*	*76.1*	*35-120*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0441 - EPA 3545

Matrix Spike Duplicate (B9I0441-MSD2) **Source: 0904980-06** Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.321	0.047	0.012	mg/kg dry	0.390	ND	82.3	50-120	1.38	25	
Alachlor	0.313	0.047	0.0082	mg/kg dry	0.390	ND	80.3	55-120	4.81	25	
Atrazine	0.343	0.047	0.012	mg/kg dry	0.390	ND	87.9	60-120	2.18	25	
Chlorpyrifos	0.230	0.047	0.0082	mg/kg dry	0.390	ND	58.9	40-125	2.18	25	
Cyanazine	0.335	0.047	0.0094	mg/kg dry	0.390	ND	85.8	55-125	0.0279	25	
Deisopropylatrazine	0.312	0.047	0.0094	mg/kg dry	0.390	ND	80.1	55-120	0.243	25	
Desethylatrazine	0.372	0.047	0.013	mg/kg dry	0.390	ND	95.4	60-125	2.57	25	
Dimethenamid	0.335	0.047	0.0070	mg/kg dry	0.390	ND	85.9	55-120	1.85	25	
EPTC	0.299	0.047	0.0070	mg/kg dry	0.390	ND	76.6	40-105	0.975	25	
Ethalfluralin	0.217	0.047	0.016	mg/kg dry	0.390	ND	55.7	40-120	3.45	25	
Fonofos	0.300	0.047	0.0047	mg/kg dry	0.390	ND	77.0	45-115	1.50	25	
Metolachlor	0.314	0.047	0.0035	mg/kg dry	0.390	ND	80.6	50-125	2.24	25	
Metribuzin	0.338	0.047	0.011	mg/kg dry	0.390	ND	86.8	55-125	1.66	25	
Pendimethalin	0.228	0.047	0.019	mg/kg dry	0.390	ND	58.5	40-120	6.66	25	
Phorate	0.277	0.047	0.0070	mg/kg dry	0.390	ND	71.1	40-115	0.346	25	
Prometon	0.356	0.047	0.0070	mg/kg dry	0.390	ND	91.2	60-125	2.99	25	
Propachlor	0.369	0.047	0.011	mg/kg dry	0.390	ND	94.7	60-115	4.60	25	
Propazine	0.342	0.047	0.0082	mg/kg dry	0.390	ND	87.7	55-120	0.459	25	
Simazine	0.251	0.047	0.011	mg/kg dry	0.390	ND	64.5	50-120	8.67	25	
Terbufos	0.227	0.047	0.011	mg/kg dry	0.390	ND	58.2	40-120	1.84	25	
Triallate	0.235	0.047	0.0058	mg/kg dry	0.390	ND	60.2	40-115	5.57	25	
Trifluralin	0.212	0.047	0.016	mg/kg dry	0.390	ND	54.4	40-115	1.49	25	
Surrogate: Atrazine-d5	*0.328*			mg/kg dry	*0.390*	*NA*	*84.1*	*50-125*			
Surrogate: Diazinon-d10	*0.270*			mg/kg dry	*0.390*	*NA*	*69.3*	*35-120*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0428 - EPA 3545

Method Blank (B9I0428-BLK1)

Prepared: 09/21/09 Analyzed: 09/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	<0.050	0.050	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	<0.050	0.050	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D	<0.050	0.050	0.012	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D.B.	<0.050	0.050	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Bentazon	<0.050	0.050	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Dicamba	<0.050	0.050	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Dinoseb	<0.050	0.050	0.0050	mg/kg	NA	NA	NA	NA	NA	NA	
M.C.P.A.	<0.050	0.050	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	<0.050	0.050	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Picloram	<0.050	0.050	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Triclopyr	<0.050	0.050	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	*0.131*			mg/kg	*0.167*	*NA*	*78.8*	*50-125*			

Laboratory Control Sample (B9I0428-BS1)

Prepared: 09/21/09 Analyzed: 09/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.121	0.050	0.0090	mg/kg	0.167	NA	72.6	60-125	NA	NA	
2,4,5-T.P.	0.124	0.050	0.0070	mg/kg	0.167	NA	74.2	65-125	NA	NA	
2,4-D	0.113	0.050	0.012	mg/kg	0.167	NA	67.4	60-125	NA	NA	
2,4-D.B.	0.133	0.050	0.011	mg/kg	0.167	NA	79.8	70-130	NA	NA	
Bentazon	0.135	0.050	0.0090	mg/kg	0.167	NA	80.6	65-125	NA	NA	
Dicamba	0.113	0.050	0.0080	mg/kg	0.167	NA	67.8	60-120	NA	NA	
Dinoseb	0.0812	0.050	0.0050	mg/kg	0.167	NA	48.6	30-120	NA	NA	
M.C.P.A.	0.112	0.050	0.014	mg/kg	0.167	NA	66.8	60-115	NA	NA	
Pentachlorophenol	0.121	0.050	0.0070	mg/kg	0.167	NA	72.4	50-120	NA	NA	
Picloram	0.0565	0.050	0.011	mg/kg	0.167	NA	33.8	30-100	NA	NA	
Triclopyr	0.124	0.050	0.0060	mg/kg	0.167	NA	74.0	65-120	NA	NA	
Surrogate: D.C.A.A.	*0.118*			mg/kg	*0.167*	*NA*	*70.8*	*50-125*			

Laboratory Control Sample Duplicate (B9I0428-BSD1)

Prepared: 09/21/09 Analyzed: 09/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.122	0.050	0.0090	mg/kg	0.164	NA	74.4	60-125	0.464	25	
2,4,5-T.P.	0.118	0.050	0.0070	mg/kg	0.164	NA	71.8	65-125	5.27	25	
2,4-D	0.121	0.050	0.012	mg/kg	0.164	NA	73.6	60-125	6.81	25	
2,4-D.B.	0.124	0.050	0.011	mg/kg	0.164	NA	75.8	70-130	7.12	25	
Bentazon	0.121	0.050	0.0090	mg/kg	0.164	NA	74.0	65-125	10.5	25	
Dicamba	0.111	0.050	0.0080	mg/kg	0.164	NA	68.0	60-120	1.69	25	
Dinoseb	0.0907	0.050	0.0050	mg/kg	0.164	NA	55.4	30-120	11.1	25	
M.C.P.A.	0.108	0.050	0.014	mg/kg	0.164	NA	65.8	60-115	3.49	25	
Pentachlorophenol	0.113	0.050	0.0070	mg/kg	0.164	NA	68.8	50-120	7.08	25	
Picloram	0.0681	0.050	0.011	mg/kg	0.164	NA	41.6	30-100	18.7	25	
Triclopyr	0.117	0.050	0.0060	mg/kg	0.164	NA	71.6	65-120	5.28	25	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0428 - EPA 3545

Laboratory Control Sample Duplicate (B9I0428-BSD1)

Prepared: 09/21/09 Analyzed: 09/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: D.C.A.A.	*0.112*			mg/kg	*0.164*	*NA*	*68.4*	*50-125*			

Matrix Spike (B9I0428-MS1)

Source: 0904966-01 Prepared: 09/21/09 Analyzed: 09/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.126	0.058	0.010	mg/kg dry	0.190	ND	66.4	30-130	NA	NA	
2,4,5-T.P.	0.132	0.058	0.0081	mg/kg dry	0.190	ND	69.6	40-130	NA	NA	
2,4-D	0.116	0.058	0.014	mg/kg dry	0.190	ND	61.2	30-125	NA	NA	
2,4-D.B.	0.142	0.058	0.013	mg/kg dry	0.190	ND	75.0	70-130	NA	NA	
Bentazon	0.135	0.058	0.010	mg/kg dry	0.190	ND	71.0	65-125	NA	NA	
Dicamba	0.123	0.058	0.0093	mg/kg dry	0.190	ND	64.6	30-120	NA	NA	
Dinoseb	0.0854	0.058	0.0058	mg/kg dry	0.190	ND	45.0	30-120	NA	NA	
M.C.P.A.	0.127	0.058	0.016	mg/kg dry	0.190	ND	66.8	30-120	NA	NA	
Pentachlorophenol	0.132	0.058	0.0081	mg/kg dry	0.190	ND	69.8	50-120	NA	NA	
Picloram	<0.058	0.058	0.013	mg/kg dry	0.190	ND	9.20	30-100	NA	NA	
Triclopyr	0.128	0.058	0.0070	mg/kg dry	0.190	ND	67.6	30-120	NA	NA	
Surrogate: D.C.A.A.	*0.148*			mg/kg dry	*0.190*	*NA*	*78.2*	*50-125*			

Matrix Spike (B9I0428-MS2)

Source: 0904980-06 Prepared: 09/21/09 Analyzed: 09/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.104	0.060	0.011	mg/kg dry	0.200	ND	51.8	30-130	NA	NA	
2,4,5-T.P.	0.130	0.060	0.0084	mg/kg dry	0.200	ND	65.0	40-130	NA	NA	
2,4-D	0.113	0.060	0.014	mg/kg dry	0.200	ND	56.4	30-125	NA	NA	
2,4-D.B.	0.147	0.060	0.013	mg/kg dry	0.200	ND	73.4	70-130	NA	NA	
Bentazon	0.223	0.060	0.011	mg/kg dry	0.200	ND	112	65-125	NA	NA	
Dicamba	0.114	0.060	0.0096	mg/kg dry	0.200	ND	56.8	30-120	NA	NA	
Dinoseb	0.104	0.060	0.0060	mg/kg dry	0.200	ND	52.2	30-120	NA	NA	
M.C.P.A.	0.125	0.060	0.017	mg/kg dry	0.200	ND	62.6	30-120	NA	NA	
Pentachlorophenol	0.133	0.060	0.0084	mg/kg dry	0.200	ND	66.4	50-120	NA	NA	
Picloram	<0.060	0.060	0.013	mg/kg dry	0.200	ND	NA	30-100	NA	NA	
Triclopyr	0.128	0.060	0.0072	mg/kg dry	0.200	ND	64.0	30-120	NA	NA	
Surrogate: D.C.A.A.	*0.138*			mg/kg dry	*0.200*	*NA*	*68.8*	*50-125*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0428 - EPA 3545

Matrix Spike Duplicate (B9I0428-MSD1)

Source: 0904966-01 Prepared: 09/21/09 Analyzed: 09/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.145	0.058	0.010	mg/kg dry	0.193	ND	75.0	30-130	13.7	25	
2,4,5-T.P.	0.133	0.058	0.0081	mg/kg dry	0.193	ND	69.0	40-130	0.650	25	
2,4-D	0.125	0.058	0.014	mg/kg dry	0.193	ND	64.8	30-125	7.23	25	
2,4-D.B.	0.145	0.058	0.013	mg/kg dry	0.193	ND	75.0	70-130	1.52	25	
Bentazon	0.137	0.058	0.010	mg/kg dry	0.193	ND	71.2	65-125	1.80	25	
Dicamba	0.134	0.058	0.0093	mg/kg dry	0.193	ND	69.4	30-120	8.68	25	
Dinoseb	0.0983	0.058	0.0058	mg/kg dry	0.193	ND	51.0	30-120	14.0	25	
M.C.P.A.	0.130	0.058	0.016	mg/kg dry	0.193	ND	67.6	30-120	2.71	25	
Pentachlorophenol	0.131	0.058	0.0081	mg/kg dry	0.193	ND	68.2	50-120	0.803	25	
Picloram	<0.058	0.058	0.013	mg/kg dry	0.193	ND	7.20	30-100	22.9	25	
Triclopyr	0.136	0.058	0.0070	mg/kg dry	0.193	ND	70.4	30-120	5.57	25	
Surrogate: D.C.A.A.	*0.148*			mg/kg dry	*0.193*	*NA*	*76.6*	*50-125*			

Matrix Spike Duplicate (B9I0428-MSD2)

Source: 0904980-06 Prepared: 09/21/09 Analyzed: 09/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.123	0.060	0.011	mg/kg dry	0.201	ND	61.2	30-130	17.1	25	
2,4,5-T.P.	0.131	0.060	0.0084	mg/kg dry	0.201	ND	65.2	40-130	0.772	25	
2,4-D	0.127	0.060	0.014	mg/kg dry	0.201	ND	63.4	30-125	12.1	25	
2,4-D.B.	0.153	0.060	0.013	mg/kg dry	0.201	ND	76.4	70-130	4.47	25	
Bentazon	0.204	0.060	0.011	mg/kg dry	0.201	ND	102	65-125	8.72	25	
Dicamba	0.121	0.060	0.0096	mg/kg dry	0.201	ND	60.2	30-120	6.28	25	
Dinoseb	0.109	0.060	0.0060	mg/kg dry	0.201	ND	54.2	30-120	4.22	25	
M.C.P.A.	0.142	0.060	0.017	mg/kg dry	0.201	ND	70.6	30-120	12.5	25	
Pentachlorophenol	0.135	0.060	0.0084	mg/kg dry	0.201	ND	67.2	50-120	1.66	25	
Picloram	<0.060	0.060	0.013	mg/kg dry	0.201	ND	NA	30-100	NA	25	
Triclopyr	0.144	0.060	0.0072	mg/kg dry	0.201	ND	71.6	30-120	11.7	25	
Surrogate: D.C.A.A.	*0.144*			mg/kg dry	*0.201*	*NA*	*71.8*	*50-125*			

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UMP018898

BRAUN INTERTEC

11001 Hampshire Ave. S.
Minneapolis, MN 55438
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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

0905209

BARR ***Chain of Custody***

4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number: 23/19-0B05.07 SIRI 300

Project Name: UMA-SSI/RI

Sample Origination State MN (use two letter postal state abbreviation)

COC Number: № 29840

COC 1 of 1

Project Manager: JSA/JME

Project QC Contact: KJN/AAN

Sampled by: KCB

Laboratory: Braun

Number of Containers/Preservative

Location	Start Depth	Stop Depth	Depth Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	QC	Water: VOCs (HCl) #1	Water: SVOCs (unpreserved) #2	Water: Dissolved Metals (HNO_3)	Water: Total Metals (HNO_3)	Water: General (unpreserved) #3	Water: Diesel Range Organics (HCl)	Water: Nutrients (H_2SO_4) #4	Soil: VOCs (tared MeOH) #1	Soil: GRO, BTEX (tared MeOH) #1	Soil: DRO (tared unpreserved)	Soil: Metals (unpreserved)	Soil: SVOCs (unpreserved) #2	Soil: % Solids (plastic vial, unpres.)	Total Number Of Containers	
1. SOC4-TT12	0.5	0.5	ft	09/17/2009	1100		X	X														X	X	3	Analyze OC-Pest. + List 1-2 Pest
2. M-1	–	–	–	↓	–		X	X														X	X	3	
3. SGC4-TT6	0.5	0.5	ft	09/18/2009	0930		X	X														X	X	3	
4. SOC5-SS7	0.5	0.5	ft	↓	1200		X	X														X	X	3	
5. SOC5-SS11	0.5	0.5	ft	↓	1230		X	X														X	X	3	↓
6.																									
7.																									
8.																									
9.																									
10.																									

Common Parameter/Container - Preservation Key

#1 - Volatile Organics = BTEX, GRO, TPH, 8260 Full List
#2 - Semivolatile Organics = PAHs, PCP, Dioxins, 8270 Full List, Herbicide/Pesticide/PCBs
#3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
#4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
[signature]	(Y) N	09/21/09	0930	[signature]	9/21/09	1030
Relinquished By:	On Ice? Y N	Date	Time	Received by:	Date	Time

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other: _____

Air Bill Number: 4.9°C +ICE

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

H:\BLGISTGF\DRWG\Chain Of Custody Form 2009 BLC.dwg, Rev. 09/01/09

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Braun Intertec Corporation
11001 Hampshire Avenue S.
Minneapolis, MN 55438

Phone: 952.995.2000
Fax: 952.995.2020
Web: braunintertec.com

Ms. Kelly Neppl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

October 08, 2009

Work Order #: 0905209

RE: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300

Dear Kelly Neppl:

Braun Intertec Corporation received samples for the project identified above on September 21, 2009. Analytical results are summarized in the following report.

All routine quality assurance procedures were followed, unless otherwise noted.

Analytical results are reported on an "as received" basis unless otherwise noted. Where possible, the samples will be retained by the laboratory for 14 days following issuance of the initial final report. The samples will be disposed of or returned at that time. Arrangements can be made for extended storage by contacting me at this time.

We appreciate your decision to use Braun Intertec Corporation for this project. We are committed to being your vendor of choice to meet your analytical chemistry needs.

If you have any questions please contact me at the above phone number.

Sincerely,

Steven J. Albrecht

Steven J. Albrecht
Associate Principal

Certification/Accreditation Numbers

Minnesota Department of Health: 027-053-117 Wisconsin DNR: 999462640

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

How to Use this Report

In order to get the most out of the information presented in this report please refer to the following explanations as to how the data in this report is tied together and how some of the terms are defined.

Qualifiers and Abbreviations are defined in the following section. You will find these codes used throughout the report in headers and in note sections to designate a unique fact about the data to which they are associated.

The Case Narrative gives a "story" about the analysis and results. Here you will find greater elaboration on relevant qualifiers as well as an explanation of anything of particular note in the data. This is a discussion of the data in terms of quality control and chemistry. It is a summary of any deviations that could affect the usefulness of the data. This is not an interpretation as to how this information relates to regulatory compliance, toxicity, or hazardous characterization. These items are beyond the scope of this report.

The Sample Summary provides detail on sample receipt. The association between Client sample ID and the Laboratory sample ID are defined here; this information is valuable to have when discussing results with your project manager. Sample collection and receipt dates and times are provided here as well. General notes regarding the work order are also documented here. This is a mini "case narrative" that describes any anomalies regarding the condition of the samples upon arrival to the laboratory or special circumstances regarding the work order.

The Conditions Upon Receipt summarizes the results of specific checks that have been performed at sample receipt. This includes items like custody documentation, sample condition, and temperature at receipt. Each "cooler" is identified and the conditions associated with that cooler are documented. A "cooler" is defined as the larger container used to transport the individual samples. In most cases this is a standard recreational cooler but it can be a box, plastic bag, or other container.

The laboratory results are summarized in the following sections. Data is broken down into major categories for convenience. An example of such a category would be "Total Petroleum Hydrocarbons." Here you would find data that references the testing of such parameters as diesel range organics and gasoline range organics. Other categories are similarly mapped. The batch number is associated with each sample. This is important to evaluate Quality Control (QC) data. Surrogate results samples are provided with each sample. Laboratory control limits are provided for comparison (see below). The reference method is also identified. If a method is denoted with an "M" (e.g. EPA 1234(M)) this means that it has been modified. An explanation of the modification will be found in the Case Narrative. A result is given with appropriate units. If a soil sample is dry-weight corrected then the word "dry" will appear next to the units. If the word "dry" does not appear then the result is "as received."

The Method Reporting Limit (MRL) and Method Detection Limit (MDL) are provided. It is important to understand these terms. The MRL is a level that has been empirically verified to provide reliable quantitation of results. Results that are equal to or greater than this value will show up in bold. They are considered "hits." The MDL is a statistically derived number that indicates an estimated concentration at which an analyte can be detected above the noise level. If a result is less than the MRL but greater than the MDL then it is considered an estimate. Such a result is reported with a "J" flag denoting that it has been detected but that the result is an estimate.

In this specific report format, the majority of the analyses are reported without estimated concentrations less than the MRL. For these analyses, if a result is less than the MRL, the result is given as less than the MRL (e.g. if the MRL = 10 then a less than result would be given as "<10"). However, for the Organochlorine Pesticides in water and MDA List 1 Pesticides in water analyses, if a result is less than the MRL but greater than the MDL, then an estimated result is reported with a "J" flag. If a result for either of these two analyses is less than the MDL, then the result is given as less than the MDL.

The Quality Control (QC) samples are documented in the following section. Here you will find the preparation batches associated with each sample from the results section. The sample preparation method is also defined here. Accuracy is represented here in terms of a percent recovery as compared to a known value. Precision is represented as a relative percent difference between two duplicate sample aliquots. The laboratory control limits are provided as a means to evaluate the quality control data. If the result falls outside the laboratory control limits this simply means that it is outside what is typical for the laboratory and is noted accordingly. This does not mean that the data is invalid. Laboratory control limits are generally tighter than most program limits. This is a very important distinction. How the data is ultimately used determines its validity. Program requirements are defined in the Quality Assurance Project Plan (QAPP) governing the project. If your project manager is aware of your specific program requirements then a note will be made in the case narrative if the data fails to meet any of these requirements.

The last section contains copies of important documents and/or instrument printouts relevant to the report. This includes the chain of custody. It also may include items like chromatograms or spectra.

Please note that this report is paginated and must be reproduced in its entirety.

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Qualifiers and Abbreviations

vn	The surrogate recovery is below the laboratory generated control limits.
vfa	The method reporting limit (MRL) was raised for one or more analytes; a dilution of the sample was necessary due to high analyte levels and/or matrix interferences.
sur	One or more surrogate recoveries reported with this sample analysis are outside of the laboratory control limits.
qo	The relative percent difference (RPD) was outside of laboratory control limits for the matrix spike (MS) and matrix spike duplicate (MSD) samples.
qn	The spike recovery is outside of laboratory control limits for the matrix spike (MS) and/or the matrix spike duplicate (MSD).
J	Detected but below the Method Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
COC	Chain of Custody
dry	Sample results reported on a dry weight basis
MDL	Method Detection Limit
MRL	Method Reporting Limit
NA	Not Applicable
ND	Analyte NOT DETECTED
NR	Not Reported
%Rec	Percent Recovery
RPD	Relative Percent Difference
VOC	Volatile Organic Compound

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC4-TT12	0905209-01	Soil	09/17/09 11:00	09/21/09 10:30
M-1	0905209-02	Soil	09/17/09 00:00	09/21/09 10:30
SOC4-TT6	0905209-03	Soil	09/18/09 09:30	09/21/09 10:30
SOC5-SS7	0905209-04	Soil	09/18/09 12:00	09/21/09 10:30
SOC5-SS11	0905209-05	Soil	09/18/09 12:30	09/21/09 10:30

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Conditions Upon Receipt

Cooler: Cooler 1

Temperature:	4.9 °C	**COC Included:**	Yes	**Custody Seals Used:**	No
Temperature Blank:	No	**COC Complete:**	Yes	**Custody Seals Intact:**	NA
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	No
Preservation Confirmed:	No	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC4-TT12

0905209-01 (Soil)

9/17/09 11:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**82**	0.050	0.010	% Wt	B9I0470	9/23/09 6:03	9/23/09 15:49	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.029	0.029	0.0017	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
4,4'-DDE	<0.029	0.029	0.0030	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
4,4'-DDT	<0.029	0.029	0.0027	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
Aldrin	<0.029	0.029	0.0037	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
alpha-BHC	<0.029	0.029	0.0027	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
alpha-Chlordane	<0.029	0.029	0.0023	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
beta-BHC	<0.029	0.029	0.0027	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
delta-BHC	<0.029	0.029	0.0021	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
Dieldrin	<0.029	0.029	0.0026	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
Endosulfan I	<0.029	0.029	0.0033	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
Endosulfan II	<0.029	0.029	0.0024	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
Endosulfan Sulfate	<0.029	0.029	0.0027	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
Endrin	<0.029	0.029	0.0033	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
Endrin Aldehyde	<0.029	0.029	0.011	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qn, qo
Endrin Ketone	<0.029	0.029	0.0036	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
gamma-BHC	<0.029	0.029	0.0029	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
gamma-Chlordane	<0.029	0.029	0.0020	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
Heptachlor	<0.029	0.029	0.0063	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
Heptachlor Epoxide	<0.029	0.029	0.0050	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
Methoxychlor	<0.029	0.029	0.0024	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	qo
Toxaphene	<0.58	0.58	0.11	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:18	EPA 8081A	
Surr: DBC	*85.6 %*	*Limits: 40-160%*			*B9I0612*	*9/29/09 8:48*	*10/2/09 0:44*	*EPA 8081A*	
Surr: TCMX	*94.7 %*	*Limits: 60-130%*			*B9I0612*	*9/29/09 8:48*	*10/2/09 0:18*	*EPA 8081A*	

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.048	0.048	0.012	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Alachlor	<0.048	0.048	0.0084	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Atrazine	<0.048	0.048	0.012	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Chlorpyrifos	<0.048	0.048	0.0084	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Cyanazine	<0.048	0.048	0.0096	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Deisopropylatrazine	<0.048	0.048	0.0096	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Desethylatrazine	<0.048	0.048	0.013	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Dimethenamid	<0.048	0.048	0.0072	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
EPTC	<0.048	0.048	0.0072	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Ethalfluralin	<0.048	0.048	0.017	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC4-TT12

0905209-01 (Soil)

9/17/09 11:00

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Fonofos	<0.048	0.048	0.0048	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Metolachlor	<0.048	0.048	0.0036	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Metribuzin	<0.048	0.048	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Pendimethalin	<0.048	0.048	0.019	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Phorate	<0.048	0.048	0.0072	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Prometon	<0.048	0.048	0.0072	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Propachlor	<0.048	0.048	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Propazine	<0.048	0.048	0.0084	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Simazine	<0.048	0.048	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Terbufos	<0.048	0.048	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Triallate	<0.048	0.048	0.0060	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Trifluralin	<0.048	0.048	0.017	mg/kg dry	B9I0441	9/22/09 6:31	9/23/09 23:56	EPA 8270C	
Surr: Atrazine-d5	*76.2 %*	*Limits: 50-125%*			*B9I0441*	*9/22/09 6:31*	*9/23/09 23:56*	*EPA 8270C*	
Surr: Diazinon-d10	*45.5 %*	*Limits: 35-120%*			*B9I0441*	*9/22/09 6:31*	*9/23/09 23:56*	*EPA 8270C*	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.061	0.061	0.011	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:52	EPA 8270C	
2,4,5-T.P.	<0.061	0.061	0.0085	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:52	EPA 8270C	
2,4-D	<0.061	0.061	0.015	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:52	EPA 8270C	
2,4-D.B.	<0.061	0.061	0.013	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:52	EPA 8270C	
Bentazon	<0.061	0.061	0.011	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:52	EPA 8270C	
Dicamba	<0.061	0.061	0.0098	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:52	EPA 8270C	
Dinoseb	<0.061	0.061	0.0061	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:52	EPA 8270C	
M.C.P.A.	<0.061	0.061	0.017	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:52	EPA 8270C	
Pentachlorophenol	<0.061	0.061	0.0085	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:52	EPA 8270C	
Picloram	<0.061	0.061	0.013	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:52	EPA 8270C	qn
Triclopyr	<0.061	0.061	0.0073	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 22:52	EPA 8270C	
Surr: D.C.A.A.	*67.2 %*	*Limits: 50-125%*			*B9I0428*	*9/21/09 13:29*	*9/29/09 22:52*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

M-1

0905209-02 (Soil)

9/17/09 0:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**84**	0.050	0.010	% Wt	B9I0470	9/23/09 6:03	9/23/09 15:49	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.030	0.030	0.0018	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
4,4'-DDE	<0.030	0.030	0.0031	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
4,4'-DDT	<0.030	0.030	0.0028	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
Aldrin	<0.030	0.030	0.0038	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
alpha-BHC	<0.030	0.030	0.0028	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
alpha-Chlordane	<0.030	0.030	0.0024	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
beta-BHC	<0.030	0.030	0.0028	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
delta-BHC	<0.030	0.030	0.0022	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
Dieldrin	<0.030	0.030	0.0026	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
Endosulfan I	<0.030	0.030	0.0033	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
Endosulfan II	<0.030	0.030	0.0025	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
Endosulfan Sulfate	<0.030	0.030	0.0028	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
Endrin	<0.030	0.030	0.0033	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
Endrin Aldehyde	<0.030	0.030	0.011	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qn, qo
Endrin Ketone	<0.030	0.030	0.0037	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
gamma-BHC	<0.030	0.030	0.0030	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
gamma-Chlordane	<0.030	0.030	0.0020	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
Heptachlor	<0.030	0.030	0.0065	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
Heptachlor Epoxide	<0.030	0.030	0.0051	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
Methoxychlor	<0.030	0.030	0.0025	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	qo
Toxaphene	<0.60	0.60	0.11	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 0:44	EPA 8081A	
Surr: DBC	*88.7 %*	*Limits: 40-160%*			*B9I0612*	*9/29/09 8:48*	*10/2/09 0:44*	*EPA 8081A*	
Surr: TCMX	*88.8 %*	*Limits: 60-130%*			*B9I0612*	*9/29/09 8:48*	*10/2/09 0:44*	*EPA 8081A*	

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.048	0.048	0.012	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Alachlor	<0.048	0.048	0.0084	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Atrazine	<0.048	0.048	0.012	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Chlorpyrifos	<0.048	0.048	0.0084	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Cyanazine	<0.048	0.048	0.0096	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Deisopropylatrazine	<0.048	0.048	0.0096	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Desethylatrazine	<0.048	0.048	0.013	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Dimethenamid	<0.048	0.048	0.0072	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
EPTC	<0.048	0.048	0.0072	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Ethalfluralin	<0.048	0.048	0.017	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	

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UMP018907

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

M-1

0905209-02 (Soil)

9/17/09 0:00

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Fonofos	<0.048	0.048	0.0048	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Metolachlor	<0.048	0.048	0.0036	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Metribuzin	<0.048	0.048	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Pendimethalin	<0.048	0.048	0.019	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Phorate	<0.048	0.048	0.0072	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Prometon	<0.048	0.048	0.0072	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Propachlor	<0.048	0.048	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Propazine	<0.048	0.048	0.0084	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Simazine	<0.048	0.048	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Terbufos	<0.048	0.048	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Triallate	<0.048	0.048	0.0060	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Trifluralin	<0.048	0.048	0.017	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:22	EPA 8270C	
Surr: Atrazine-d5	*91.9 %*	*Limits: 50-125%*			*B9I0441*	*9/22/09 6:31*	*9/24/09 0:22*	*EPA 8270C*	
Surr: Diazinon-d10	*59.2 %*	*Limits: 35-120%*			*B9I0441*	*9/22/09 6:31*	*9/24/09 0:22*	*EPA 8270C*	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.060	0.060	0.011	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:17	EPA 8270C	
2,4,5-T.P.	<0.060	0.060	0.0084	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:17	EPA 8270C	
2,4-D	<0.060	0.060	0.014	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:17	EPA 8270C	
2,4-D.B.	<0.060	0.060	0.013	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:17	EPA 8270C	
Bentazon	<0.060	0.060	0.011	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:17	EPA 8270C	
Dicamba	<0.060	0.060	0.0096	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:17	EPA 8270C	
Dinoseb	<0.060	0.060	0.0060	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:17	EPA 8270C	
M.C.P.A.	<0.060	0.060	0.017	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:17	EPA 8270C	
Pentachlorophenol	<0.060	0.060	0.0084	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:17	EPA 8270C	
Picloram	<0.060	0.060	0.013	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:17	EPA 8270C	qn
Triclopyr	<0.060	0.060	0.0072	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:17	EPA 8270C	
Surr: D.C.A.A.	*66.4 %*	*Limits: 50-125%*			*B9I0428*	*9/21/09 13:29*	*9/29/09 23:17*	*EPA 8270C*	

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952.995.2020 Fax

Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC4-TT6

0905209-03 (Soil)

9/18/09 9:30

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**85**	0.050	0.010	% Wt	B9I0470	9/23/09 6:03	9/23/09 15:49	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.028	0.028	0.0017	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
4,4'-DDE	<0.028	0.028	0.0029	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
4,4'-DDT	<0.028	0.028	0.0026	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
Aldrin	<0.028	0.028	0.0036	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
alpha-BHC	<0.028	0.028	0.0026	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
alpha-Chlordane	<0.028	0.028	0.0022	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
beta-BHC	<0.028	0.028	0.0026	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
delta-BHC	<0.028	0.028	0.0020	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
Dieldrin	<0.028	0.028	0.0025	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
Endosulfan I	<0.028	0.028	0.0031	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
Endosulfan II	<0.028	0.028	0.0024	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
Endosulfan Sulfate	<0.028	0.028	0.0026	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
Endrin	<0.028	0.028	0.0031	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
Endrin Aldehyde	<0.028	0.028	0.011	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qn, qo
Endrin Ketone	<0.028	0.028	0.0035	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
gamma-BHC	<0.028	0.028	0.0028	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
gamma-Chlordane	<0.028	0.028	0.0019	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
Heptachlor	<0.028	0.028	0.0060	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
Heptachlor Epoxide	<0.028	0.028	0.0048	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
Methoxychlor	<0.028	0.028	0.0024	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	qo
Toxaphene	<0.56	0.56	0.11	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:10	EPA 8081A	
Surr: DBC	*91.6 %*	*Limits: 40-160%*			*B9I0612*	*9/29/09 8:48*	*10/2/09 1:10*	*EPA 8081A*	
Surr: TCMX	*87.6 %*	*Limits: 60-130%*			*B9I0612*	*9/29/09 8:48*	*10/2/09 1:10*	*EPA 8081A*	

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.047	0.047	0.012	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Alachlor	<0.047	0.047	0.0082	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Atrazine	<0.047	0.047	0.012	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Chlorpyrifos	<0.047	0.047	0.0082	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Cyanazine	<0.047	0.047	0.0094	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Deisopropylatrazine	<0.047	0.047	0.0094	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Desethylatrazine	<0.047	0.047	0.013	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Dimethenamid	<0.047	0.047	0.0070	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
EPTC	<0.047	0.047	0.0070	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Ethalfluralin	<0.047	0.047	0.016	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC4-TT6

0905209-03 (Soil)

9/18/09 9:30

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Fonofos	<0.047	0.047	0.0047	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Metolachlor	<0.047	0.047	0.0035	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Metribuzin	<0.047	0.047	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Pendimethalin	<0.047	0.047	0.019	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Phorate	<0.047	0.047	0.0070	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Prometon	<0.047	0.047	0.0070	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Propachlor	<0.047	0.047	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Propazine	<0.047	0.047	0.0082	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Simazine	<0.047	0.047	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Terbufos	<0.047	0.047	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Triallate	<0.047	0.047	0.0059	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Trifluralin	<0.047	0.047	0.016	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 0:47	EPA 8270C	
Surr: Atrazine-d5	*81.6 %*	*Limits: 50-125%*			*B9I0441*	*9/22/09 6:31*	*9/24/09 0:47*	*EPA 8270C*	
Surr: Diazinon-d10	*46.8 %*	*Limits: 35-120%*			*B9I0441*	*9/22/09 6:31*	*9/24/09 0:47*	*EPA 8270C*	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.059	0.059	0.011	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:42	EPA 8270C	
2,4,5-T.P.	<0.059	0.059	0.0082	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:42	EPA 8270C	
2,4-D	<0.059	0.059	0.014	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:42	EPA 8270C	
2,4-D.B.	<0.059	0.059	0.013	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:42	EPA 8270C	
Bentazon	<0.059	0.059	0.011	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:42	EPA 8270C	
Dicamba	<0.059	0.059	0.0094	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:42	EPA 8270C	
Dinoseb	<0.059	0.059	0.0059	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:42	EPA 8270C	
M.C.P.A.	<0.059	0.059	0.016	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:42	EPA 8270C	
Pentachlorophenol	<0.059	0.059	0.0082	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:42	EPA 8270C	
Picloram	<0.059	0.059	0.013	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:42	EPA 8270C	qn
Triclopyr	<0.059	0.059	0.0070	mg/kg dry	B9I0428	9/21/09 13:29	9/29/09 23:42	EPA 8270C	
Surr: D.C.A.A.	*61.2 %*	*Limits: 50-125%*			*B9I0428*	*9/21/09 13:29*	*9/29/09 23:42*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-SS7

0905209-04 (Soil)

9/18/09 12:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**93**	0.050	0.010	% Wt	B9I0470	9/23/09 6:03	9/23/09 15:49	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.026	0.026	0.0016	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
4,4'-DDE	<0.026	0.026	0.0027	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
4,4'-DDT	<0.026	0.026	0.0024	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
Aldrin	<0.026	0.026	0.0033	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
alpha-BHC	<0.026	0.026	0.0024	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
alpha-Chlordane	<0.026	0.026	0.0021	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
beta-BHC	<0.026	0.026	0.0024	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
delta-BHC	<0.026	0.026	0.0019	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
Dieldrin	<0.026	0.026	0.0023	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
Endosulfan I	<0.026	0.026	0.0029	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
Endosulfan II	<0.026	0.026	0.0022	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
Endosulfan Sulfate	<0.026	0.026	0.0024	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
Endrin	<0.026	0.026	0.0029	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
Endrin Aldehyde	<0.026	0.026	0.0099	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qn, qo
Endrin Ketone	<0.026	0.026	0.0032	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
gamma-BHC	<0.026	0.026	0.0026	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
gamma-Chlordane	<0.026	0.026	0.0018	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
Heptachlor	<0.026	0.026	0.0056	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
Heptachlor Epoxide	<0.026	0.026	0.0045	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
Methoxychlor	<0.026	0.026	0.0022	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	qo
Toxaphene	<0.52	0.52	0.099	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 1:36	EPA 8081A	
Surr: DBC	*92.0 %*	*Limits: 40-160%*			*B9I0612*	*9/29/09 8:48*	*10/2/09 2:02*	*EPA 8081A*	
Surr: TCMX	*102 %*	*Limits: 60-130%*			*B9I0612*	*9/29/09 8:48*	*10/2/09 1:36*	*EPA 8081A*	

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.043	0.043	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Alachlor	<0.043	0.043	0.0075	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Atrazine	<0.043	0.043	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Chlorpyrifos	<0.043	0.043	0.0075	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Cyanazine	<0.043	0.043	0.0086	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Deisopropylatrazine	<0.043	0.043	0.0086	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Desethylatrazine	<0.043	0.043	0.012	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Dimethenamid	<0.043	0.043	0.0064	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
EPTC	<0.043	0.043	0.0064	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Ethalfluralin	<0.043	0.043	0.015	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	

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UMP018911

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-SS7

0905209-04 (Soil)

9/18/09 12:00

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Fonofos	<0.043	0.043	0.0043	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Metolachlor	<0.043	0.043	0.0032	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Metribuzin	<0.043	0.043	0.0097	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Pendimethalin	<0.043	0.043	0.017	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Phorate	<0.043	0.043	0.0064	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Prometon	<0.043	0.043	0.0064	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Propachlor	<0.043	0.043	0.0097	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Propazine	<0.043	0.043	0.0075	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Simazine	<0.043	0.043	0.0097	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Terbufos	<0.043	0.043	0.0097	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Triallate	<0.043	0.043	0.0054	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Trifluralin	<0.043	0.043	0.015	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:13	EPA 8270C	
Surr: Atrazine-d5	*85.3 %*	*Limits: 50-125%*			*B9I0441*	*9/22/09 6:31*	*9/24/09 1:13*	*EPA 8270C*	
Surr: Diazinon-d10	*83.6 %*	*Limits: 35-120%*			*B9I0441*	*9/22/09 6:31*	*9/24/09 1:13*	*EPA 8270C*	

Acid Extractable Pesticides (MDA List 2)

Sample Note(s): sur, vfa

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.27	0.27	0.048	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 12:00	EPA 8270C	
2,4,5-T.P.	<0.27	0.27	0.038	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 12:00	EPA 8270C	
2,4-D	<0.27	0.27	0.064	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 12:00	EPA 8270C	
2,4-D.B.	<0.27	0.27	0.059	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 12:00	EPA 8270C	
Bentazon	<0.27	0.27	0.048	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 12:00	EPA 8270C	
Dicamba	<0.27	0.27	0.043	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 12:00	EPA 8270C	
Dinoseb	<0.27	0.27	0.027	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 12:00	EPA 8270C	
M.C.P.A.	<0.27	0.27	0.075	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 12:00	EPA 8270C	
Pentachlorophenol	<0.27	0.27	0.038	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 12:00	EPA 8270C	
Picloram	<0.27	0.27	0.059	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 12:00	EPA 8270C	qn
Triclopyr	<0.27	0.27	0.032	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 12:00	EPA 8270C	
Surr: D.C.A.A.	*8.00 %*	*Limits: 50-125%*			*B9I0428*	*9/21/09 13:29*	*9/30/09 12:00*	*EPA 8270C*	*vn*

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-SS11

0905209-05 (Soil)

9/18/09 12:30

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**88**	0.050	0.010	% Wt	B9I0470	9/23/09 6:03	9/23/09 15:49	EPA 3545 7.2	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.028	0.028	0.0017	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
4,4'-DDE	<0.028	0.028	0.0029	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
4,4'-DDT	<0.028	0.028	0.0025	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
Aldrin	<0.028	0.028	0.0035	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
alpha-BHC	<0.028	0.028	0.0025	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
alpha-Chlordane	<0.028	0.028	0.0022	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
beta-BHC	<0.028	0.028	0.0025	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
delta-BHC	<0.028	0.028	0.0020	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
Dieldrin	<0.028	0.028	0.0024	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
Endosulfan I	<0.028	0.028	0.0031	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
Endosulfan II	<0.028	0.028	0.0023	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
Endosulfan Sulfate	<0.028	0.028	0.0025	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
Endrin	<0.028	0.028	0.0031	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
Endrin Aldehyde	<0.028	0.028	0.011	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qn, qo
Endrin Ketone	<0.028	0.028	0.0034	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
gamma-BHC	<0.028	0.028	0.0028	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
gamma-Chlordane	<0.028	0.028	0.0019	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
Heptachlor	<0.028	0.028	0.0060	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
Heptachlor Epoxide	<0.028	0.028	0.0048	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
Methoxychlor	<0.028	0.028	0.0023	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	qo
Toxaphene	<0.55	0.55	0.11	mg/kg dry	B9I0612	9/29/09 8:48	10/2/09 2:02	EPA 8081A	
Surr: DBC	*87.8 %*	*Limits: 40-160%*			*B9I0612*	*9/29/09 8:48*	*10/2/09 2:28*	*EPA 8081A*	
Surr: TCMX	*84.0 %*	*Limits: 60-130%*			*B9I0612*	*9/29/09 8:48*	*10/2/09 2:02*	*EPA 8081A*	

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.045	0.045	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Alachlor	<0.045	0.045	0.0079	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Atrazine	<0.045	0.045	0.011	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Chlorpyrifos	<0.045	0.045	0.0079	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Cyanazine	<0.045	0.045	0.0091	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Deisopropylatrazine	<0.045	0.045	0.0091	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Desethylatrazine	<0.045	0.045	0.012	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Dimethenamid	<0.045	0.045	0.0068	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
EPTC	<0.045	0.045	0.0068	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Ethalfluralin	<0.045	0.045	0.016	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-SS11

0905209-05 (Soil)

9/18/09 12:30

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Fonofos	<0.045	0.045	0.0045	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Metolachlor	<0.045	0.045	0.0034	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Metribuzin	<0.045	0.045	0.010	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Pendimethalin	<0.045	0.045	0.018	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Phorate	<0.045	0.045	0.0068	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Prometon	<0.045	0.045	0.0068	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Propachlor	<0.045	0.045	0.010	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Propazine	<0.045	0.045	0.0079	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Simazine	<0.045	0.045	0.010	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Terbufos	<0.045	0.045	0.010	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Triallate	<0.045	0.045	0.0057	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Trifluralin	<0.045	0.045	0.016	mg/kg dry	B9I0441	9/22/09 6:31	9/24/09 1:39	EPA 8270C	
Surr: Atrazine-d5	*83.6 %*	*Limits: 50-125%*			*B9I0441*	*9/22/09 6:31*	*9/24/09 1:39*	*EPA 8270C*	
Surr: Diazinon-d10	*78.1 %*	*Limits: 35-120%*			*B9I0441*	*9/22/09 6:31*	*9/24/09 1:39*	*EPA 8270C*	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.057	0.057	0.010	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 0:32	EPA 8270C	
2,4,5-T.P.	<0.057	0.057	0.0079	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 0:32	EPA 8270C	
2,4-D	<0.057	0.057	0.014	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 0:32	EPA 8270C	
2,4-D.B.	<0.057	0.057	0.012	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 0:32	EPA 8270C	
Bentazon	<0.057	0.057	0.010	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 0:32	EPA 8270C	
Dicamba	<0.057	0.057	0.0091	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 0:32	EPA 8270C	
Dinoseb	<0.057	0.057	0.0057	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 0:32	EPA 8270C	
M.C.P.A.	<0.057	0.057	0.016	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 0:32	EPA 8270C	
Pentachlorophenol	<0.057	0.057	0.0079	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 0:32	EPA 8270C	
Picloram	<0.057	0.057	0.012	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 0:32	EPA 8270C	qn
Triclopyr	<0.057	0.057	0.0068	mg/kg dry	B9I0428	9/21/09 13:29	9/30/09 0:32	EPA 8270C	
Surr: D.C.A.A.	*54.6 %*	*Limits: 50-125%*			*B9I0428*	*9/21/09 13:29*	*9/30/09 0:32*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Classical Chemistry Parameters - Quality Control

Batch B9I0470 - % Solids

Method Blank (B9I0470-BLK1)

Prepared & Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	<0.050	0.050	0.010	% Wt	NA	NA	NA	NA	NA	NA	

Duplicate (B9I0470-DUP1)

Source: 0905201-03 Prepared & Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	70.3	0.050	0.010	% Wt	NA	74.1	NA	NA	5.32	20	

Standard Reference Material (B9I0470-SRM1)

Prepared & Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	88.7			% Wt	91.3	NA	97.2	90-110	NA	NA	

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0612 - EPA 3546

Method Blank (B9I0612-BLK1)

Prepared: 09/29/09 Analyzed: 10/01/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	<0.025	0.025	0.0015	mg/kg	NA	NA	NA	NA	NA	NA	
4,4'-DDE	<0.025	0.025	0.0026	mg/kg	NA	NA	NA	NA	NA	NA	
4,4'-DDT	<0.025	0.025	0.0023	mg/kg	NA	NA	NA	NA	NA	NA	
Aldrin	<0.025	0.025	0.0032	mg/kg	NA	NA	NA	NA	NA	NA	
alpha-BHC	<0.025	0.025	0.0023	mg/kg	NA	NA	NA	NA	NA	NA	
alpha-Chlordane	<0.025	0.025	0.0020	mg/kg	NA	NA	NA	NA	NA	NA	
beta-BHC	<0.025	0.025	0.0023	mg/kg	NA	NA	NA	NA	NA	NA	
delta-BHC	<0.025	0.025	0.0018	mg/kg	NA	NA	NA	NA	NA	NA	
Dieldrin	<0.025	0.025	0.0022	mg/kg	NA	NA	NA	NA	NA	NA	
Endosulfan I	<0.025	0.025	0.0028	mg/kg	NA	NA	NA	NA	NA	NA	
Endosulfan II	<0.025	0.025	0.0021	mg/kg	NA	NA	NA	NA	NA	NA	
Endosulfan Sulfate	<0.025	0.025	0.0023	mg/kg	NA	NA	NA	NA	NA	NA	
Endrin	<0.025	0.025	0.0028	mg/kg	NA	NA	NA	NA	NA	NA	
Endrin Aldehyde	<0.025	0.025	0.0096	mg/kg	NA	NA	NA	NA	NA	NA	
Endrin Ketone	<0.025	0.025	0.0031	mg/kg	NA	NA	NA	NA	NA	NA	
gamma-BHC	<0.025	0.025	0.0025	mg/kg	NA	NA	NA	NA	NA	NA	
gamma-Chlordane	<0.025	0.025	0.0017	mg/kg	NA	NA	NA	NA	NA	NA	
Heptachlor	<0.025	0.025	0.0054	mg/kg	NA	NA	NA	NA	NA	NA	
Heptachlor Epoxide	<0.025	0.025	0.0043	mg/kg	NA	NA	NA	NA	NA	NA	
Methoxychlor	<0.025	0.025	0.0021	mg/kg	NA	NA	NA	NA	NA	NA	
Toxaphene	<0.50	0.50	0.096	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: DBC	*0.135*			mg/kg	*0.123*	*NA*	*110*	*40-160*			
Surrogate: TCMX	*0.132*			mg/kg	*0.123*	*NA*	*107*	*60-130*			

Laboratory Control Sample (B9I0612-BS1)

Prepared: 09/29/09 Analyzed: 10/01/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.186	0.024	0.0015	mg/kg	0.195	NA	95.4	70-130	NA	NA	
4,4'-DDE	0.182	0.024	0.0025	mg/kg	0.195	NA	93.5	70-130	NA	NA	
4,4'-DDT	0.185	0.024	0.0022	mg/kg	0.195	NA	94.9	70-130	NA	NA	
Aldrin	0.183	0.024	0.0031	mg/kg	0.195	NA	94.3	70-130	NA	NA	
alpha-BHC	0.177	0.024	0.0022	mg/kg	0.195	NA	91.0	70-130	NA	NA	
alpha-Chlordane	0.179	0.024	0.0019	mg/kg	0.195	NA	92.1	70-130	NA	NA	
beta-BHC	0.178	0.024	0.0022	mg/kg	0.195	NA	91.3	70-130	NA	NA	
delta-BHC	0.178	0.024	0.0018	mg/kg	0.195	NA	91.4	70-130	NA	NA	
Dieldrin	0.179	0.024	0.0021	mg/kg	0.195	NA	92.0	70-130	NA	NA	
Endosulfan I	0.175	0.024	0.0027	mg/kg	0.195	NA	90.2	70-130	NA	NA	
Endosulfan II	0.175	0.024	0.0020	mg/kg	0.195	NA	90.0	70-130	NA	NA	
Endosulfan Sulfate	0.181	0.024	0.0022	mg/kg	0.195	NA	92.8	70-130	NA	NA	
Endrin	0.180	0.024	0.0027	mg/kg	0.195	NA	92.5	70-130	NA	NA	
Endrin Aldehyde	0.181	0.024	0.0093	mg/kg	0.195	NA	93.1	70-130	NA	NA	
Endrin Ketone	0.173	0.024	0.0030	mg/kg	0.195	NA	88.7	70-130	NA	NA	
gamma-BHC	0.175	0.024	0.0024	mg/kg	0.195	NA	89.9	70-130	NA	NA	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0612 - EPA 3546

Laboratory Control Sample (B9I0612-BS1)

Prepared: 09/29/09 Analyzed: 10/01/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
gamma-Chlordane	0.181	0.024	0.0017	mg/kg	0.195	NA	93.0	70-130	NA	NA	
Heptachlor	0.180	0.024	0.0053	mg/kg	0.195	NA	92.4	70-130	NA	NA	
Heptachlor Epoxide	0.175	0.024	0.0042	mg/kg	0.195	NA	89.9	70-130	NA	NA	
Methoxychlor	0.190	0.024	0.0020	mg/kg	0.195	NA	97.5	70-130	NA	NA	
Surrogate: DBC	*0.132*			mg/kg	*0.122*	*NA*	*108*	*40-160*			
Surrogate: TCMX	*0.129*			mg/kg	*0.122*	*NA*	*106*	*60-130*			

Laboratory Control Sample Duplicate (B9I0612-BSD1)

Prepared: 09/29/09 Analyzed: 10/01/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.182	0.025	0.0015	mg/kg	0.199	NA	91.2	70-130	2.04	25	
4,4'-DDE	0.177	0.025	0.0026	mg/kg	0.199	NA	88.7	70-130	2.84	25	
4,4'-DDT	0.186	0.025	0.0023	mg/kg	0.199	NA	93.1	70-130	0.582	25	
Aldrin	0.177	0.025	0.0032	mg/kg	0.199	NA	89.0	70-130	3.33	25	
alpha-BHC	0.172	0.025	0.0023	mg/kg	0.199	NA	86.3	70-130	2.87	25	
alpha-Chlordane	0.170	0.025	0.0020	mg/kg	0.199	NA	85.4	70-130	5.05	25	
beta-BHC	0.176	0.025	0.0023	mg/kg	0.199	NA	88.3	70-130	0.873	25	
delta-BHC	0.176	0.025	0.0018	mg/kg	0.199	NA	88.1	70-130	1.24	25	
Dieldrin	0.176	0.025	0.0022	mg/kg	0.199	NA	88.1	70-130	1.82	25	
Endosulfan I	0.163	0.025	0.0028	mg/kg	0.199	NA	81.7	70-130	7.43	25	
Endosulfan II	0.154	0.025	0.0021	mg/kg	0.199	NA	77.4	70-130	12.5	25	
Endosulfan Sulfate	0.178	0.025	0.0023	mg/kg	0.199	NA	89.4	70-130	1.28	25	
Endrin	0.186	0.025	0.0028	mg/kg	0.199	NA	93.4	70-130	3.39	25	
Endrin Aldehyde	0.180	0.025	0.0096	mg/kg	0.199	NA	90.5	70-130	0.338	25	
Endrin Ketone	0.176	0.025	0.0031	mg/kg	0.199	NA	88.5	70-130	2.14	25	
gamma-BHC	0.172	0.025	0.0025	mg/kg	0.199	NA	86.0	70-130	1.88	25	
gamma-Chlordane	0.176	0.025	0.0017	mg/kg	0.199	NA	88.5	70-130	2.52	25	
Heptachlor	0.176	0.025	0.0054	mg/kg	0.199	NA	88.4	70-130	1.97	25	
Heptachlor Epoxide	0.177	0.025	0.0043	mg/kg	0.199	NA	88.7	70-130	1.17	25	
Methoxychlor	0.188	0.025	0.0021	mg/kg	0.199	NA	94.1	70-130	1.10	25	
Surrogate: DBC	*0.128*			mg/kg	*0.125*	*NA*	*103*	*40-160*			
Surrogate: TCMX	*0.123*			mg/kg	*0.125*	*NA*	*98.3*	*60-130*			

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0612 - EPA 3546

Matrix Spike (B9I0612-MS1)

Source: 0905209-01RE1 Prepared: 09/29/09 Analyzed: 10/01/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.142	0.028	0.0017	mg/kg dry	0.225	ND	63.0	50-130	NA	NA	
4,4'-DDE	0.140	0.028	0.0029	mg/kg dry	0.225	ND	62.2	50-130	NA	NA	
4,4'-DDT	0.142	0.028	0.0026	mg/kg dry	0.225	ND	63.0	50-130	NA	NA	
Aldrin	0.134	0.028	0.0036	mg/kg dry	0.225	ND	59.5	50-130	NA	NA	
alpha-BHC	0.125	0.028	0.0026	mg/kg dry	0.225	ND	55.7	50-130	NA	NA	
alpha-Chlordane	0.136	0.028	0.0023	mg/kg dry	0.225	ND	60.3	50-130	NA	NA	
beta-BHC	0.131	0.028	0.0026	mg/kg dry	0.225	ND	58.0	50-130	NA	NA	
delta-BHC	0.132	0.028	0.0020	mg/kg dry	0.225	ND	58.5	50-130	NA	NA	
Dieldrin	0.136	0.028	0.0025	mg/kg dry	0.225	ND	60.3	50-130	NA	NA	
Endosulfan I	0.132	0.028	0.0032	mg/kg dry	0.225	ND	58.8	50-130	NA	NA	
Endosulfan II	0.134	0.028	0.0024	mg/kg dry	0.225	ND	59.5	50-130	NA	NA	
Endosulfan Sulfate	0.142	0.028	0.0026	mg/kg dry	0.225	ND	62.9	50-130	NA	NA	
Endrin	0.138	0.028	0.0032	mg/kg dry	0.225	ND	61.1	50-130	NA	NA	
Endrin Aldehyde	0.0294	0.028	0.011	mg/kg dry	0.225	ND	13.1	50-130	NA	NA	
Endrin Ketone	0.142	0.028	0.0035	mg/kg dry	0.225	ND	62.9	50-130	NA	NA	
gamma-BHC	0.127	0.028	0.0028	mg/kg dry	0.225	ND	56.4	50-130	NA	NA	
gamma-Chlordane	0.139	0.028	0.0019	mg/kg dry	0.225	ND	61.8	50-130	NA	NA	
Heptachlor	0.134	0.028	0.0061	mg/kg dry	0.225	ND	59.7	50-130	NA	NA	
Heptachlor Epoxide	0.134	0.028	0.0048	mg/kg dry	0.225	ND	59.4	50-130	NA	NA	
Methoxychlor	0.137	0.028	0.0024	mg/kg dry	0.225	ND	60.8	50-130	NA	NA	
Surrogate: DBC	*0.102*			mg/kg dry	*0.141*	*NA*	*72.8*	*40-160*			
Surrogate: TCMX	*0.0887*			mg/kg dry	*0.141*	*NA*	*63.0*	*60-130*			

Matrix Spike Duplicate (B9I0612-MSD1)

Source: 0905209-01RE1 Prepared: 09/29/09 Analyzed: 10/01/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.200	0.029	0.0017	mg/kg dry	0.228	ND	87.7	50-130	33.9	25	
4,4'-DDE	0.188	0.029	0.0030	mg/kg dry	0.228	ND	82.2	50-130	29.0	25	
4,4'-DDT	0.202	0.029	0.0026	mg/kg dry	0.228	ND	88.4	50-130	34.8	25	
Aldrin	0.190	0.029	0.0036	mg/kg dry	0.228	ND	83.3	50-130	34.6	25	
alpha-BHC	0.187	0.029	0.0026	mg/kg dry	0.228	ND	82.0	50-130	39.4	25	
alpha-Chlordane	0.183	0.029	0.0023	mg/kg dry	0.228	ND	80.1	50-130	29.4	25	
beta-BHC	0.190	0.029	0.0026	mg/kg dry	0.228	ND	83.2	50-130	37.0	25	
delta-BHC	0.192	0.029	0.0021	mg/kg dry	0.228	ND	84.0	50-130	37.0	25	
Dieldrin	0.192	0.029	0.0025	mg/kg dry	0.228	ND	84.0	50-130	34.1	25	
Endosulfan I	0.188	0.029	0.0032	mg/kg dry	0.228	ND	82.6	50-130	34.9	25	
Endosulfan II	0.187	0.029	0.0024	mg/kg dry	0.228	ND	81.9	50-130	32.9	25	
Endosulfan Sulfate	0.196	0.029	0.0026	mg/kg dry	0.228	ND	85.9	50-130	32.1	25	
Endrin	0.195	0.029	0.0032	mg/kg dry	0.228	ND	85.6	50-130	34.6	25	
Endrin Aldehyde	0.0520	0.029	0.011	mg/kg dry	0.228	ND	22.8	50-130	55.5	25	
Endrin Ketone	0.196	0.029	0.0035	mg/kg dry	0.228	ND	85.9	50-130	32.1	25	
gamma-BHC	0.187	0.029	0.0029	mg/kg dry	0.228	ND	82.0	50-130	38.3	25	
gamma-Chlordane	0.191	0.029	0.0019	mg/kg dry	0.228	ND	83.9	50-130	31.6	25	

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0612 - EPA 3546

Matrix Spike Duplicate (B9I0612-MSD1) **Source: 0905209-01RE1** Prepared: 09/29/09 Analyzed: 10/01/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Heptachlor	0.197	0.029	0.0062	mg/kg dry	0.228	ND	86.3	50-130	37.8	25	
Heptachlor Epoxide	0.191	0.029	0.0049	mg/kg dry	0.228	ND	83.6	50-130	35.1	25	
Methoxychlor	0.208	0.029	0.0024	mg/kg dry	0.228	ND	91.4	50-130	41.4	25	
Surrogate: DBC	*0.145*			mg/kg dry	*0.143*	*NA*	*102*	*40-160*			
Surrogate: TCMX	*0.140*			mg/kg dry	*0.143*	*NA*	*98.6*	*60-130*			

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0441 - EPA 3545

Method Blank (B9I0441-BLK1)

Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	<0.040	0.040	0.010	mg/kg	NA	NA	NA	NA	NA	NA	
Alachlor	<0.040	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Atrazine	<0.040	0.040	0.010	mg/kg	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	<0.040	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Cyanazine	<0.040	0.040	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	<0.040	0.040	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Desethylatrazine	<0.040	0.040	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Dimethenamid	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
EPTC	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Ethalfluralin	<0.040	0.040	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Fonofos	<0.040	0.040	0.0040	mg/kg	NA	NA	NA	NA	NA	NA	
Metolachlor	<0.040	0.040	0.0030	mg/kg	NA	NA	NA	NA	NA	NA	
Metribuzin	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Pendimethalin	<0.040	0.040	0.016	mg/kg	NA	NA	NA	NA	NA	NA	
Phorate	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Prometon	<0.040	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Propachlor	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Propazine	<0.040	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Simazine	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Terbufos	<0.040	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Triallate	<0.040	0.040	0.0050	mg/kg	NA	NA	NA	NA	NA	NA	
Trifluralin	<0.040	0.040	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: Atrazine-d5	*0.357*			mg/kg	*0.330*	*NA*	*108*	*50-125*			
Surrogate: Diazinon-d10	*0.359*			mg/kg	*0.330*	*NA*	*109*	*35-120*			

Laboratory Control Sample (B9I0441-BS1)

Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.334	0.039	0.0098	mg/kg	0.326	NA	102	70-120	NA	NA	
Alachlor	0.313	0.039	0.0069	mg/kg	0.326	NA	96.0	70-120	NA	NA	
Atrazine	0.291	0.039	0.0098	mg/kg	0.326	NA	89.2	70-120	NA	NA	
Chlorpyrifos	0.300	0.039	0.0069	mg/kg	0.326	NA	92.0	70-120	NA	NA	
Cyanazine	0.279	0.039	0.0078	mg/kg	0.326	NA	85.6	70-120	NA	NA	
Deisopropylatrazine	0.249	0.039	0.0078	mg/kg	0.326	NA	76.4	65-115	NA	NA	
Desethylatrazine	0.299	0.039	0.011	mg/kg	0.326	NA	91.7	70-120	NA	NA	
Dimethenamid	0.320	0.039	0.0059	mg/kg	0.326	NA	98.1	70-120	NA	NA	
EPTC	0.276	0.039	0.0059	mg/kg	0.326	NA	84.7	60-105	NA	NA	
Ethalfluralin	0.303	0.039	0.014	mg/kg	0.326	NA	93.0	70-120	NA	NA	
Fonofos	0.317	0.039	0.0039	mg/kg	0.326	NA	97.2	70-115	NA	NA	
Metolachlor	0.318	0.039	0.0029	mg/kg	0.326	NA	97.4	70-120	NA	NA	
Metribuzin	0.316	0.039	0.0088	mg/kg	0.326	NA	97.0	70-120	NA	NA	
Pendimethalin	0.313	0.039	0.016	mg/kg	0.326	NA	95.8	70-120	NA	NA	
Phorate	0.259	0.039	0.0059	mg/kg	0.326	NA	79.5	70-115	NA	NA	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0441 - EPA 3545

Laboratory Control Sample (B9I0441-BS1)

Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	0.316	0.039	0.0059	mg/kg	0.326	NA	96.9	70-120	NA	NA	
Propachlor	0.304	0.039	0.0088	mg/kg	0.326	NA	93.3	70-115	NA	NA	
Propazine	0.307	0.039	0.0069	mg/kg	0.326	NA	94.0	70-120	NA	NA	
Simazine	0.236	0.039	0.0088	mg/kg	0.326	NA	72.2	60-115	NA	NA	
Terbufos	0.236	0.039	0.0088	mg/kg	0.326	NA	72.3	70-115	NA	NA	
Triallate	0.303	0.039	0.0049	mg/kg	0.326	NA	93.0	70-115	NA	NA	
Trifluralin	0.267	0.039	0.014	mg/kg	0.326	NA	81.7	70-115	NA	NA	
Surrogate: Atrazine-d5	*0.274*			mg/kg	*0.326*	*NA*	*84.0*	*50-125*			
Surrogate: Diazinon-d10	*0.285*			mg/kg	*0.326*	*NA*	*87.2*	*35-120*			

Laboratory Control Sample Duplicate (B9I0441-BSD1)

Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.339	0.039	0.0098	mg/kg	0.326	NA	104	70-120	1.42	20	
Alachlor	0.337	0.039	0.0068	mg/kg	0.326	NA	104	70-120	7.39	20	
Atrazine	0.307	0.039	0.0098	mg/kg	0.326	NA	94.1	70-120	5.22	20	
Chlorpyrifos	0.312	0.039	0.0068	mg/kg	0.326	NA	95.9	70-120	4.02	20	
Cyanazine	0.338	0.039	0.0078	mg/kg	0.326	NA	104	70-120	19.1	20	
Deisopropylatrazine	0.275	0.039	0.0078	mg/kg	0.326	NA	84.3	65-115	9.70	20	
Desethylatrazine	0.328	0.039	0.011	mg/kg	0.326	NA	101	70-120	9.32	20	
Dimethenamid	0.336	0.039	0.0059	mg/kg	0.326	NA	103	70-120	4.74	20	
EPTC	0.282	0.039	0.0059	mg/kg	0.326	NA	86.5	60-105	1.97	20	
Ethalfluralin	0.301	0.039	0.014	mg/kg	0.326	NA	92.5	70-120	0.670	20	
Fonofos	0.338	0.039	0.0039	mg/kg	0.326	NA	104	70-115	6.44	20	
Metolachlor	0.335	0.039	0.0029	mg/kg	0.326	NA	103	70-120	5.36	20	
Metribuzin	0.315	0.039	0.0088	mg/kg	0.326	NA	96.8	70-120	0.337	20	
Pendimethalin	0.331	0.039	0.016	mg/kg	0.326	NA	102	70-120	5.65	20	
Phorate	0.300	0.039	0.0059	mg/kg	0.326	NA	92.1	70-115	14.6	20	
Prometon	0.332	0.039	0.0059	mg/kg	0.326	NA	102	70-120	5.00	20	
Propachlor	0.326	0.039	0.0088	mg/kg	0.326	NA	100	70-115	6.80	20	
Propazine	0.323	0.039	0.0068	mg/kg	0.326	NA	99.2	70-120	5.25	20	
Simazine	0.239	0.039	0.0088	mg/kg	0.326	NA	73.5	60-115	1.65	20	
Terbufos	0.277	0.039	0.0088	mg/kg	0.326	NA	85.1	70-115	16.1	20	
Triallate	0.318	0.039	0.0049	mg/kg	0.326	NA	97.6	70-115	4.70	20	
Trifluralin	0.297	0.039	0.014	mg/kg	0.326	NA	91.1	70-115	10.7	20	
Surrogate: Atrazine-d5	*0.303*			mg/kg	*0.326*	*NA*	*93.0*	*50-125*			
Surrogate: Diazinon-d10	*0.305*			mg/kg	*0.326*	*NA*	*93.6*	*35-120*			

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0441 - EPA 3545

Matrix Spike (B9I0441-MS1)

Source: 0904966-01 Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.362	0.046	0.012	mg/kg dry	0.387	ND	93.5	50-120	NA	NA	
Alachlor	0.368	0.046	0.0081	mg/kg dry	0.387	ND	95.3	55-120	NA	NA	
Atrazine	0.368	0.046	0.012	mg/kg dry	0.387	ND	95.1	60-120	NA	NA	
Chlorpyrifos	0.293	0.046	0.0081	mg/kg dry	0.387	ND	75.8	40-125	NA	NA	
Cyanazine	0.365	0.046	0.0093	mg/kg dry	0.387	ND	94.4	55-125	NA	NA	
Deisopropylatrazine	0.326	0.046	0.0093	mg/kg dry	0.387	ND	84.3	55-120	NA	NA	
Desethylatrazine	0.389	0.046	0.013	mg/kg dry	0.387	ND	101	60-125	NA	NA	
Dimethenamid	0.380	0.046	0.0070	mg/kg dry	0.387	ND	98.3	55-120	NA	NA	
EPTC	0.319	0.046	0.0070	mg/kg dry	0.387	ND	82.4	40-105	NA	NA	
Ethalfluralin	0.308	0.046	0.016	mg/kg dry	0.387	ND	79.7	40-120	NA	NA	
Fonofos	0.344	0.046	0.0046	mg/kg dry	0.387	ND	89.0	45-115	NA	NA	
Metolachlor	0.366	0.046	0.0035	mg/kg dry	0.387	ND	94.6	50-125	NA	NA	
Metribuzin	0.385	0.046	0.010	mg/kg dry	0.387	ND	99.6	55-125	NA	NA	
Pendimethalin	0.312	0.046	0.019	mg/kg dry	0.387	ND	80.7	40-120	NA	NA	
Phorate	0.341	0.046	0.0070	mg/kg dry	0.387	ND	88.2	40-115	NA	NA	
Prometon	0.387	0.046	0.0070	mg/kg dry	0.387	ND	100	60-125	NA	NA	
Propachlor	0.381	0.046	0.010	mg/kg dry	0.387	ND	98.5	60-115	NA	NA	
Propazine	0.374	0.046	0.0081	mg/kg dry	0.387	ND	96.7	55-120	NA	NA	
Simazine	0.280	0.046	0.010	mg/kg dry	0.387	ND	72.3	50-120	NA	NA	
Terbufos	0.297	0.046	0.010	mg/kg dry	0.387	ND	76.7	40-120	NA	NA	
Triallate	0.305	0.046	0.0058	mg/kg dry	0.387	ND	78.9	40-115	NA	NA	
Trifluralin	0.272	0.046	0.016	mg/kg dry	0.387	ND	70.3	40-115	NA	NA	
Surrogate: Atrazine-d5	*0.345*			mg/kg dry	*0.387*	*NA*	*89.2*	*50-125*			
Surrogate: Diazinon-d10	*0.356*			mg/kg dry	*0.387*	*NA*	*92.0*	*35-120*			

Matrix Spike (B9I0441-MS2)

Source: 0904980-06 Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.325	0.048	0.012	mg/kg dry	0.396	ND	82.2	50-120	NA	NA	
Alachlor	0.329	0.048	0.0084	mg/kg dry	0.396	ND	83.0	55-120	NA	NA	
Atrazine	0.350	0.048	0.012	mg/kg dry	0.396	ND	88.5	60-120	NA	NA	
Chlorpyrifos	0.235	0.048	0.0084	mg/kg dry	0.396	ND	59.3	40-125	NA	NA	
Cyanazine	0.334	0.048	0.0096	mg/kg dry	0.396	ND	84.5	55-125	NA	NA	
Deisopropylatrazine	0.313	0.048	0.0096	mg/kg dry	0.396	ND	79.1	55-120	NA	NA	
Desethylatrazine	0.363	0.048	0.013	mg/kg dry	0.396	ND	91.6	60-125	NA	NA	
Dimethenamid	0.341	0.048	0.0072	mg/kg dry	0.396	ND	86.2	55-120	NA	NA	
EPTC	0.302	0.048	0.0072	mg/kg dry	0.396	ND	76.2	40-105	NA	NA	
Ethalfluralin	0.225	0.048	0.017	mg/kg dry	0.396	ND	56.8	40-120	NA	NA	
Fonofos	0.305	0.048	0.0048	mg/kg dry	0.396	ND	77.0	45-115	NA	NA	
Metolachlor	0.321	0.048	0.0036	mg/kg dry	0.396	ND	81.2	50-125	NA	NA	
Metribuzin	0.333	0.048	0.011	mg/kg dry	0.396	ND	84.1	55-125	NA	NA	
Pendimethalin	0.244	0.048	0.019	mg/kg dry	0.396	ND	61.6	40-120	NA	NA	
Phorate	0.276	0.048	0.0072	mg/kg dry	0.396	ND	69.8	40-115	NA	NA	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0441 - EPA 3545

Matrix Spike (B9I0441-MS2)

Source: 0904980-06 Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	0.345	0.048	0.0072	mg/kg dry	0.396	ND	87.2	60-125	NA	NA	
Propachlor	0.353	0.048	0.011	mg/kg dry	0.396	ND	89.1	60-115	NA	NA	
Propazine	0.340	0.048	0.0084	mg/kg dry	0.396	ND	86.0	55-120	NA	NA	
Simazine	0.274	0.048	0.011	mg/kg dry	0.396	ND	69.3	50-120	NA	NA	
Terbufos	0.231	0.048	0.011	mg/kg dry	0.396	ND	58.4	40-120	NA	NA	
Triallate	0.248	0.048	0.0060	mg/kg dry	0.396	ND	62.7	40-115	NA	NA	
Trifluralin	0.209	0.048	0.017	mg/kg dry	0.396	ND	52.8	40-115	NA	NA	
Surrogate: Atrazine-d5	*0.332*			mg/kg dry	*0.396*	*NA*	*83.8*	*50-125*			
Surrogate: Diazinon-d10	*0.289*			mg/kg dry	*0.396*	*NA*	*73.1*	*35-120*			

Matrix Spike Duplicate (B9I0441-MSD1)

Source: 0904966-01 Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.324	0.046	0.012	mg/kg dry	0.385	ND	84.3	50-120	10.8	25	
Alachlor	0.334	0.046	0.0081	mg/kg dry	0.385	ND	86.7	55-120	9.91	25	
Atrazine	0.344	0.046	0.012	mg/kg dry	0.385	ND	89.4	60-120	6.64	25	
Chlorpyrifos	0.259	0.046	0.0081	mg/kg dry	0.385	ND	67.4	40-125	12.2	25	
Cyanazine	0.330	0.046	0.0093	mg/kg dry	0.385	ND	85.8	55-125	10.0	25	
Deisopropylatrazine	0.318	0.046	0.0093	mg/kg dry	0.385	ND	82.6	55-120	2.50	25	
Desethylatrazine	0.363	0.046	0.013	mg/kg dry	0.385	ND	94.4	60-125	6.82	25	
Dimethenamid	0.345	0.046	0.0070	mg/kg dry	0.385	ND	89.7	55-120	9.61	25	
EPTC	0.280	0.046	0.0070	mg/kg dry	0.385	ND	72.8	40-105	12.8	25	
Ethalfluralin	0.272	0.046	0.016	mg/kg dry	0.385	ND	70.6	40-120	12.6	25	
Fonofos	0.309	0.046	0.0046	mg/kg dry	0.385	ND	80.4	45-115	10.6	25	
Metolachlor	0.317	0.046	0.0035	mg/kg dry	0.385	ND	82.3	50-125	14.4	25	
Metribuzin	0.360	0.046	0.010	mg/kg dry	0.385	ND	93.6	55-125	6.68	25	
Pendimethalin	0.269	0.046	0.019	mg/kg dry	0.385	ND	69.9	40-120	14.8	25	
Phorate	0.295	0.046	0.0070	mg/kg dry	0.385	ND	76.6	40-115	14.5	25	
Prometon	0.350	0.046	0.0070	mg/kg dry	0.385	ND	90.9	60-125	10.2	25	
Propachlor	0.358	0.046	0.010	mg/kg dry	0.385	ND	92.9	60-115	6.32	25	
Propazine	0.337	0.046	0.0081	mg/kg dry	0.385	ND	87.5	55-120	10.5	25	
Simazine	0.254	0.046	0.010	mg/kg dry	0.385	ND	66.1	50-120	9.42	25	
Terbufos	0.248	0.046	0.010	mg/kg dry	0.385	ND	64.4	40-120	17.9	25	
Triallate	0.271	0.046	0.0058	mg/kg dry	0.385	ND	70.3	40-115	12.0	25	
Trifluralin	0.238	0.046	0.016	mg/kg dry	0.385	ND	61.8	40-115	13.3	25	
Surrogate: Atrazine-d5	*0.321*			mg/kg dry	*0.385*	*NA*	*83.5*	*50-125*			
Surrogate: Diazinon-d10	*0.293*			mg/kg dry	*0.385*	*NA*	*76.1*	*35-120*			

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0441 - EPA 3545

Matrix Spike Duplicate (B9I0441-MSD2) **Source: 0904980-06** Prepared: 09/22/09 Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.321	0.047	0.012	mg/kg dry	0.390	ND	82.3	50-120	1.38	25	
Alachlor	0.313	0.047	0.0082	mg/kg dry	0.390	ND	80.3	55-120	4.81	25	
Atrazine	0.343	0.047	0.012	mg/kg dry	0.390	ND	87.9	60-120	2.18	25	
Chlorpyrifos	0.230	0.047	0.0082	mg/kg dry	0.390	ND	58.9	40-125	2.18	25	
Cyanazine	0.335	0.047	0.0094	mg/kg dry	0.390	ND	85.8	55-125	0.0279	25	
Deisopropylatrazine	0.312	0.047	0.0094	mg/kg dry	0.390	ND	80.1	55-120	0.243	25	
Desethylatrazine	0.372	0.047	0.013	mg/kg dry	0.390	ND	95.4	60-125	2.57	25	
Dimethenamid	0.335	0.047	0.0070	mg/kg dry	0.390	ND	85.9	55-120	1.85	25	
EPTC	0.299	0.047	0.0070	mg/kg dry	0.390	ND	76.6	40-105	0.975	25	
Ethalfluralin	0.217	0.047	0.016	mg/kg dry	0.390	ND	55.7	40-120	3.45	25	
Fonofos	0.300	0.047	0.0047	mg/kg dry	0.390	ND	77.0	45-115	1.50	25	
Metolachlor	0.314	0.047	0.0035	mg/kg dry	0.390	ND	80.6	50-125	2.24	25	
Metribuzin	0.338	0.047	0.011	mg/kg dry	0.390	ND	86.8	55-125	1.66	25	
Pendimethalin	0.228	0.047	0.019	mg/kg dry	0.390	ND	58.5	40-120	6.66	25	
Phorate	0.277	0.047	0.0070	mg/kg dry	0.390	ND	71.1	40-115	0.346	25	
Prometon	0.356	0.047	0.0070	mg/kg dry	0.390	ND	91.2	60-125	2.99	25	
Propachlor	0.369	0.047	0.011	mg/kg dry	0.390	ND	94.7	60-115	4.60	25	
Propazine	0.342	0.047	0.0082	mg/kg dry	0.390	ND	87.7	55-120	0.459	25	
Simazine	0.251	0.047	0.011	mg/kg dry	0.390	ND	64.5	50-120	8.67	25	
Terbufos	0.227	0.047	0.011	mg/kg dry	0.390	ND	58.2	40-120	1.84	25	
Triallate	0.235	0.047	0.0058	mg/kg dry	0.390	ND	60.2	40-115	5.57	25	
Trifluralin	0.212	0.047	0.016	mg/kg dry	0.390	ND	54.4	40-115	1.49	25	
Surrogate: Atrazine-d5	*0.328*			mg/kg dry	*0.390*	*NA*	*84.1*	*50-125*			
Surrogate: Diazinon-d10	*0.270*			mg/kg dry	*0.390*	*NA*	*69.3*	*35-120*			

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0428 - EPA 3545

Method Blank (B9I0428-BLK1)

Prepared: 09/21/09 Analyzed: 09/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	<0.050	0.050	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	<0.050	0.050	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D	<0.050	0.050	0.012	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D.B.	<0.050	0.050	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Bentazon	<0.050	0.050	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Dicamba	<0.050	0.050	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Dinoseb	<0.050	0.050	0.0050	mg/kg	NA	NA	NA	NA	NA	NA	
M.C.P.A.	<0.050	0.050	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	<0.050	0.050	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Picloram	<0.050	0.050	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Triclopyr	<0.050	0.050	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	*0.131*			mg/kg	*0.167*	*NA*	*78.8*	*50-125*			

Laboratory Control Sample (B9I0428-BS1)

Prepared: 09/21/09 Analyzed: 09/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.121	0.050	0.0090	mg/kg	0.167	NA	72.6	60-125	NA	NA	
2,4,5-T.P.	0.124	0.050	0.0070	mg/kg	0.167	NA	74.2	65-125	NA	NA	
2,4-D	0.113	0.050	0.012	mg/kg	0.167	NA	67.4	60-125	NA	NA	
2,4-D.B.	0.133	0.050	0.011	mg/kg	0.167	NA	79.8	70-130	NA	NA	
Bentazon	0.135	0.050	0.0090	mg/kg	0.167	NA	80.6	65-125	NA	NA	
Dicamba	0.113	0.050	0.0080	mg/kg	0.167	NA	67.8	60-120	NA	NA	
Dinoseb	0.0812	0.050	0.0050	mg/kg	0.167	NA	48.6	30-120	NA	NA	
M.C.P.A.	0.112	0.050	0.014	mg/kg	0.167	NA	66.8	60-115	NA	NA	
Pentachlorophenol	0.121	0.050	0.0070	mg/kg	0.167	NA	72.4	50-120	NA	NA	
Picloram	0.0565	0.050	0.011	mg/kg	0.167	NA	33.8	30-100	NA	NA	
Triclopyr	0.124	0.050	0.0060	mg/kg	0.167	NA	74.0	65-120	NA	NA	
Surrogate: D.C.A.A.	*0.118*			mg/kg	*0.167*	*NA*	*70.8*	*50-125*			

Laboratory Control Sample Duplicate (B9I0428-BSD1)

Prepared: 09/21/09 Analyzed: 09/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.122	0.050	0.0090	mg/kg	0.164	NA	74.4	60-125	0.464	25	
2,4,5-T.P.	0.118	0.050	0.0070	mg/kg	0.164	NA	71.8	65-125	5.27	25	
2,4-D	0.121	0.050	0.012	mg/kg	0.164	NA	73.6	60-125	6.81	25	
2,4-D.B.	0.124	0.050	0.011	mg/kg	0.164	NA	75.8	70-130	7.12	25	
Bentazon	0.121	0.050	0.0090	mg/kg	0.164	NA	74.0	65-125	10.5	25	
Dicamba	0.111	0.050	0.0080	mg/kg	0.164	NA	68.0	60-120	1.69	25	
Dinoseb	0.0907	0.050	0.0050	mg/kg	0.164	NA	55.4	30-120	11.1	25	
M.C.P.A.	0.108	0.050	0.014	mg/kg	0.164	NA	65.8	60-115	3.49	25	
Pentachlorophenol	0.113	0.050	0.0070	mg/kg	0.164	NA	68.8	50-120	7.08	25	
Picloram	0.0681	0.050	0.011	mg/kg	0.164	NA	41.6	30-100	18.7	25	
Triclopyr	0.117	0.050	0.0060	mg/kg	0.164	NA	71.6	65-120	5.28	25	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0428 - EPA 3545

Laboratory Control Sample Duplicate (B9I0428-BSD1)

Prepared: 09/21/09 Analyzed: 09/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: D.C.A.A.	*0.112*			mg/kg	*0.164*	*NA*	*68.4*	*50-125*			

Matrix Spike (B9I0428-MS1)

Source: 0904966-01 Prepared: 09/21/09 Analyzed: 09/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.126	0.058	0.010	mg/kg dry	0.190	ND	66.4	30-130	NA	NA	
2,4,5-T.P.	0.132	0.058	0.0081	mg/kg dry	0.190	ND	69.6	40-130	NA	NA	
2,4-D	0.116	0.058	0.014	mg/kg dry	0.190	ND	61.2	30-125	NA	NA	
2,4-D.B.	0.142	0.058	0.013	mg/kg dry	0.190	ND	75.0	70-130	NA	NA	
Bentazon	0.135	0.058	0.010	mg/kg dry	0.190	ND	71.0	65-125	NA	NA	
Dicamba	0.123	0.058	0.0093	mg/kg dry	0.190	ND	64.6	30-120	NA	NA	
Dinoseb	0.0854	0.058	0.0058	mg/kg dry	0.190	ND	45.0	30-120	NA	NA	
M.C.P.A.	0.127	0.058	0.016	mg/kg dry	0.190	ND	66.8	30-120	NA	NA	
Pentachlorophenol	0.132	0.058	0.0081	mg/kg dry	0.190	ND	69.8	50-120	NA	NA	
Picloram	<0.058	0.058	0.013	mg/kg dry	0.190	ND	9.20	30-100	NA	NA	
Triclopyr	0.128	0.058	0.0070	mg/kg dry	0.190	ND	67.6	30-120	NA	NA	
Surrogate: D.C.A.A.	*0.148*			mg/kg dry	*0.190*	*NA*	*78.2*	*50-125*			

Matrix Spike (B9I0428-MS2)

Source: 0904980-06 Prepared: 09/21/09 Analyzed: 09/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.104	0.060	0.011	mg/kg dry	0.200	ND	51.8	30-130	NA	NA	
2,4,5-T.P.	0.130	0.060	0.0084	mg/kg dry	0.200	ND	65.0	40-130	NA	NA	
2,4-D	0.113	0.060	0.014	mg/kg dry	0.200	ND	56.4	30-125	NA	NA	
2,4-D.B.	0.147	0.060	0.013	mg/kg dry	0.200	ND	73.4	70-130	NA	NA	
Bentazon	0.223	0.060	0.011	mg/kg dry	0.200	ND	112	65-125	NA	NA	
Dicamba	0.114	0.060	0.0096	mg/kg dry	0.200	ND	56.8	30-120	NA	NA	
Dinoseb	0.104	0.060	0.0060	mg/kg dry	0.200	ND	52.2	30-120	NA	NA	
M.C.P.A.	0.125	0.060	0.017	mg/kg dry	0.200	ND	62.6	30-120	NA	NA	
Pentachlorophenol	0.133	0.060	0.0084	mg/kg dry	0.200	ND	66.4	50-120	NA	NA	
Picloram	<0.060	0.060	0.013	mg/kg dry	0.200	ND	NA	30-100	NA	NA	
Triclopyr	0.128	0.060	0.0072	mg/kg dry	0.200	ND	64.0	30-120	NA	NA	
Surrogate: D.C.A.A.	*0.138*			mg/kg dry	*0.200*	*NA*	*68.8*	*50-125*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9I0428 - EPA 3545

Matrix Spike Duplicate (B9I0428-MSD1)

Source: 0904966-01 Prepared: 09/21/09 Analyzed: 09/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.145	0.058	0.010	mg/kg dry	0.193	ND	75.0	30-130	13.7	25	
2,4,5-T.P.	0.133	0.058	0.0081	mg/kg dry	0.193	ND	69.0	40-130	0.650	25	
2,4-D	0.125	0.058	0.014	mg/kg dry	0.193	ND	64.8	30-125	7.23	25	
2,4-D.B.	0.145	0.058	0.013	mg/kg dry	0.193	ND	75.0	70-130	1.52	25	
Bentazon	0.137	0.058	0.010	mg/kg dry	0.193	ND	71.2	65-125	1.80	25	
Dicamba	0.134	0.058	0.0093	mg/kg dry	0.193	ND	69.4	30-120	8.68	25	
Dinoseb	0.0983	0.058	0.0058	mg/kg dry	0.193	ND	51.0	30-120	14.0	25	
M.C.P.A.	0.130	0.058	0.016	mg/kg dry	0.193	ND	67.6	30-120	2.71	25	
Pentachlorophenol	0.131	0.058	0.0081	mg/kg dry	0.193	ND	68.2	50-120	0.803	25	
Picloram	<0.058	0.058	0.013	mg/kg dry	0.193	ND	7.20	30-100	22.9	25	
Triclopyr	0.136	0.058	0.0070	mg/kg dry	0.193	ND	70.4	30-120	5.57	25	
Surrogate: D.C.A.A.	*0.148*			mg/kg dry	*0.193*	*NA*	*76.6*	*50-125*			

Matrix Spike Duplicate (B9I0428-MSD2)

Source: 0904980-06 Prepared: 09/21/09 Analyzed: 09/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.123	0.060	0.011	mg/kg dry	0.201	ND	61.2	30-130	17.1	25	
2,4,5-T.P.	0.131	0.060	0.0084	mg/kg dry	0.201	ND	65.2	40-130	0.772	25	
2,4-D	0.127	0.060	0.014	mg/kg dry	0.201	ND	63.4	30-125	12.1	25	
2,4-D.B.	0.153	0.060	0.013	mg/kg dry	0.201	ND	76.4	70-130	4.47	25	
Bentazon	0.204	0.060	0.011	mg/kg dry	0.201	ND	102	65-125	8.72	25	
Dicamba	0.121	0.060	0.0096	mg/kg dry	0.201	ND	60.2	30-120	6.28	25	
Dinoseb	0.109	0.060	0.0060	mg/kg dry	0.201	ND	54.2	30-120	4.22	25	
M.C.P.A.	0.142	0.060	0.017	mg/kg dry	0.201	ND	70.6	30-120	12.5	25	
Pentachlorophenol	0.135	0.060	0.0084	mg/kg dry	0.201	ND	67.2	50-120	1.66	25	
Picloram	<0.060	0.060	0.013	mg/kg dry	0.201	ND	NA	30-100	NA	25	
Triclopyr	0.144	0.060	0.0072	mg/kg dry	0.201	ND	71.6	30-120	11.7	25	
Surrogate: D.C.A.A.	*0.144*			mg/kg dry	*0.201*	*NA*	*71.8*	*50-125*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905209
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

0905209

BARR ***Chain of Custody***

4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number: 23/19-0B05.07 SIRI 300

Project Name: UMA-SSI/RI

Sample Origination State MN (use two letter postal state abbreviation)

COC Number: № 29840

COC 1 of 1

Project Manager: JSA/JME

Project QC Contact: KJN/AAN

Sampled by: KCB

Laboratory: Braun

Number of Containers/Preservative — Water: VOCs (HCl) #1; SVOCs (unpreserved) #2; Dissolved Metals (HNO_3); Total Metals (HNO_3); General (unpreserved) #3; Diesel Range Organics (HCl); Nutrients (H_2SO_4) #4. Soil: VOCs (tared MeOH) #1; GRO, BTEX (tared MeOH) #1; DRO (tared unpreserved); Metals (unpreserved); SVOCs (unpreserved) #2; % Solids (plastic vial, unpres.)

Location	Start Depth	Stop Depth	Depth Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Total Number Of Containers	
1. SOC4-TT12	0.5	0.5	ft	09/17/2009	1100		X	X			3	Analyze OC-Pest. + List 1-2 Pest
2. M-1	–	–	–	↓	–		X	X			3	
3. SGC4-TT6	0.5	0.5	ft	09/18/2009	0930		X	X			3	
4. SOC5-SS7	0.5	0.5	ft	↓	1200		X	X			3	
5. SOC5-SS11	0.5	0.5	ft	↓	1230		X	X			3	↓
6.												
7.												
8.												
9.												
10.												

Common Parameter/Container - Preservation Key

#1 - Volatile Organics = BTEX, GRO, TPH, 8260 Full List
#2 - Semivolatile Organics = PAHs, PCP, Dioxins, 8270 Full List, Herbicide/Pesticide/PCBs
#3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
#4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
[signature]	(Y) N	09/21/09	0930	[signature]	9/21/09	1030
Relinquished By:	On Ice? Y N	Date	Time	Received by:	Date	Time

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other: _____

Air Bill Number: 4.9°C +ICE

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

H:\RLGISTOF\DRWG\Chain Of Custody Form 2009 RLC Rev. 09/01/09

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Braun Intertec Corporation
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Minneapolis, MN 55438

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Fax: 952.995.2020
Web: braunintertec.com

RECEIVED
OCT 2 8 2009
BARR
ENGINEERING CO.

Ms. Kelly Neppl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

October 26, 2009

Work Order #: 0905313

RE: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300

Dear Kelly Neppl:

Braun Intertec Corporation received samples for the project identified above on September 24, 2009. Analytical results are summarized in the following report.

All routine quality assurance procedures were followed, unless otherwise noted.

Analytical results are reported on an "as received" basis unless otherwise noted. Where possible, the samples will be retained by the laboratory for 14 days following issuance of the initial final report. The samples will be disposed of or returned at that time. Arrangements can be made for extended storage by contacting me at this time.

We appreciate your decision to use Braun Intertec Corporation for this project. We are committed to being your vendor of choice to meet your analytical chemistry needs.

If you have any questions please contact me at the above phone number.

Sincerely,

Steven J. Albrecht
Associate Principal

Certification/Accreditation Numbers

Minnesota Department of Health: 027-053-117 Wisconsin DNR: 999462640

Providing engineering and environmental solutions since 1957

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905313
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

How to Use this Report

In order to get the most out of the information presented in this report please refer to the following explanations as to how the data in this report is tied together and how some of the terms are defined.

Qualifiers and Abbreviations are defined in the following section. You will find these codes used throughout the report in headers and in note sections to designate a unique fact about the data to which they are associated.

The Case Narrative gives a "story" about the analysis and results. Here you will find greater elaboration on relevant qualifiers as well as an explanation of anything of particular note in the data. This is a discussion of the data in terms of quality control and chemistry. It is a summary of any deviations that could affect the usefulness of the data. This is not an interpretation as to how this information relates to regulatory compliance, toxicity, or hazardous characterization. These items are beyond the scope of this report.

The Sample Summary provides detail on sample receipt. The association between Client sample ID and the Laboratory sample ID are defined here; this information is valuable to have when discussing results with your project manager. Sample collection and receipt dates and times are provided here as well. General notes regarding the work order are also documented here. This is a mini "case narrative" that describes any anomalies regarding the condition of the samples upon arrival to the laboratory or special circumstances regarding the work order.

The Conditions Upon Receipt summarizes the results of specific checks that have been performed at sample receipt. This includes items like custody documentation, sample condition, and temperature at receipt. Each "cooler" is identified and the conditions associated with that cooler are documented. A "cooler" is defined as the larger container used to transport the individual samples. In most cases this is a standard recreational cooler but it can be a box, plastic bag, or other container.

The laboratory results are summarized in the following sections. Data is broken down into major categories for convenience. An example of such a category would be "Total Petroleum Hydrocarbons." Here you would find data that references the testing of such parameters as diesel range organics and gasoline range organics. Other categories are similarly mapped. The batch number is associated with each sample. This is important to evaluate Quality Control (QC) data. Surrogate results samples are provided with each sample. Laboratory control limits are provided for comparison (see below). The reference method is also identified. If a method is denoted with an "M" (e.g. EPA 1234(M)) this means that it has been modified. An explanation of the modification will be found in the Case Narrative. A result is given with appropriate units. If a soil sample is dry-weight corrected then the word "dry" will appear next to the units. If the word "dry" does not appear then the result is "as received."

The Method Reporting Limit (MRL) and Method Detection Limit (MDL) are provided. It is important to understand these terms. The MRL is a level that has been empirically verified to provide reliable quantitation of results. Results that are equal to or greater than this value will show up in bold. They are considered "hits." The MDL is a statistically derived number that indicates an estimated concentration at which an analyte can be detected above the noise level. If a result is less than the MRL but greater than the MDL then it is considered an estimate. Such a result is reported with a "J" flag denoting that it has been detected but that the result is an estimate.

In this specific report format, the majority of the analyses are reported without estimated concentrations less than the MRL. For these analyses, if a result is less than the MRL, the result is given as less than the MRL (e.g. if the MRL = 10 then a less than result would be given as "<10"). However, for the Organochlorine Pesticides in water and MDA List 1 Pesticides in water analyses, if a result is less than the MRL but greater than the MDL, then an estimated result is reported with a "J" flag. If a result for either of these two analyses is less than the MDL, then the result is given as less than the MDL.

The Quality Control (QC) samples are documented in the following section. Here you will find the preparation batches associated with each sample from the results section. The sample preparation method is also defined here. Accuracy is represented here in terms of a percent recovery as compared to a known value. Precision is represented as a relative percent difference between two duplicate sample aliquots. The laboratory control limits are provided as a means to evaluate the quality control data. If the result falls outside the laboratory control limits this simply means that it is outside what is typical for the laboratory and is noted accordingly. This does not mean that the data is invalid. Laboratory control limits are generally tighter than most program limits. This is a very important distinction. How the data is ultimately used determines its validity. Program requirements are defined in the Quality Assurance Project Plan (QAPP) governing the project. If your project manager is aware of your specific program requirements then a note will be made in the case narrative if the data fails to meet any of these requirements.

The last section contains copies of important documents and/or instrument printouts relevant to the report. This includes the chain of custody. It also may include items like chromatograms or spectra.

Please note that this report is paginated and must be reproduced in its entirety.

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Qualifiers and Abbreviations

qn	The spike recovery is outside of laboratory control limits for the matrix spike (MS) and/or the matrix spike duplicate (MSD).
J	Detected but below the Method Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
gp	The relative percent difference (RPD) for the laboratory control sample and laboratory control sample duplicate is outside of laboratory control limits.
go	The laboratory control sample recovery is outside of laboratory control limits.
gg2	The sample was authorized for analysis past the method specified holding time.
gg	The sample was received past the method specified holding time.
COC	Chain of Custody
dry	Sample results reported on a dry weight basis
MDL	Method Detection Limit
MRL	Method Reporting Limit
NA	Not Applicable
ND	Analyte NOT DETECTED
NR	Not Reported
%Rec	Percent Recovery
RPD	Relative Percent Difference
VOC	Volatile Organic Compound

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC5-GP27 (0.5-1)	0905313-01	Soil	09/01/09 10:40	09/24/09 14:21
SOC5-GP13 (0.5-1)	0905313-02	Soil	09/01/09 12:40	09/24/09 14:21
SOC5-GP12 (0.5-1)	0905313-03	Soil	09/01/09 14:20	09/24/09 14:21
SOC5-GP14 (0.5-1)	0905313-04	Soil	09/01/09 15:40	09/24/09 14:21

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Conditions Upon Receipt

Cooler: Cooler 1

Temperature:	1.4 °C	**COC Included:**	Yes	**Custody Seals Used:**	No
Temperature Blank:	Yes	**COC Complete:**	Yes	**Custody Seals Intact:**	NA
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	No
Preservation Confirmed:	Yes	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-GP27 (0.5-1)

0905313-01 (Soil)

9/1/09 10:40

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**90**	0.050	0.010	% Wt	B9I0548	9/25/09 12:59	9/25/09 16:37	EPA 3545 7.2	gg

Organochlorine Pesticides

Sample Note(s): gg2

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.028	0.028	0.0017	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 18:39	EPA 8081A	
4,4'-DDE	<0.028	0.028	0.0029	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 18:39	EPA 8081A	
4,4'-DDT	<0.028	0.028	0.0026	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 18:39	EPA 8081A	
Aldrin	<0.028	0.028	0.0036	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 18:39	EPA 8081A	
alpha-BHC	<0.028	0.028	0.0026	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 18:39	EPA 8081A	
alpha-Chlordane	<0.028	0.028	0.0022	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 18:39	EPA 8081A	
beta-BHC	<0.028	0.028	0.0026	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 18:39	EPA 8081A	
delta-BHC	<0.028	0.028	0.0020	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 18:39	EPA 8081A	
Dieldrin	<0.028	0.028	0.0025	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 18:39	EPA 8081A	
Endosulfan I	<0.028	0.028	0.0031	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 18:39	EPA 8081A	
Endosulfan II	<0.028	0.028	0.0023	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 18:39	EPA 8081A	
Endosulfan Sulfate	<0.028	0.028	0.0026	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 18:39	EPA 8081A	
Endrin	<0.028	0.028	0.0031	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 18:39	EPA 8081A	
Endrin Aldehyde	<0.028	0.028	0.011	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 18:39	EPA 8081A	
Endrin Ketone	<0.028	0.028	0.0035	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 18:39	EPA 8081A	
gamma-BHC	<0.028	0.028	0.0028	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 18:39	EPA 8081A	
gamma-Chlordane	<0.028	0.028	0.0019	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 18:39	EPA 8081A	
Heptachlor	<0.028	0.028	0.0060	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 18:39	EPA 8081A	
Heptachlor Epoxide	<0.028	0.028	0.0048	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 18:39	EPA 8081A	
Methoxychlor	<0.028	0.028	0.0023	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 18:39	EPA 8081A	
Toxaphene	<0.56	0.56	0.11	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 18:39	EPA 8081A	
Surr: DBC	*82.6 %*	*Limits: 40-160%*			*B9I0602*	*9/29/09 6:48*	*10/1/09 19:05*	*EPA 8081A*	
Surr: TCMX	*81.7 %*	*Limits: 60-130%*			*B9I0602*	*9/29/09 6:48*	*10/1/09 18:39*	*EPA 8081A*	

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UMP018934

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905313
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-GP27 (0.5-1)

0905313-01 (Soil)

9/1/09 10:40

Neutral Extractable Pesticides (MDA List 1)

Sample Note(s): gg2

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.088	0.088	0.022	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 17:39	EPA 8270C	
Alachlor	<0.088	0.088	0.015	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 17:39	EPA 8270C	
Atrazine	<0.088	0.088	0.022	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 17:39	EPA 8270C	
Chlorpyrifos	<0.088	0.088	0.015	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 17:39	EPA 8270C	
Cyanazine	<0.088	0.088	0.018	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 17:39	EPA 8270C	
Deisopropylatrazine	<0.088	0.088	0.018	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 17:39	EPA 8270C	
Desethylatrazine	<0.088	0.088	0.024	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 17:39	EPA 8270C	
Dimethenamid	<0.088	0.088	0.013	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 17:39	EPA 8270C	
EPTC	<0.088	0.088	0.013	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 17:39	EPA 8270C	
Ethalfluralin	<0.088	0.088	0.031	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 17:39	EPA 8270C	
Fonofos	<0.088	0.088	0.0088	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 17:39	EPA 8270C	
Metolachlor	<0.088	0.088	0.0066	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 17:39	EPA 8270C	
Metribuzin	<0.088	0.088	0.020	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 17:39	EPA 8270C	
Pendimethalin	<0.088	0.088	0.035	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 17:39	EPA 8270C	
Phorate	<0.088	0.088	0.013	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 17:39	EPA 8270C	
Prometon	<0.088	0.088	0.013	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 17:39	EPA 8270C	
Propachlor	<0.088	0.088	0.020	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 17:39	EPA 8270C	
Propazine	<0.088	0.088	0.015	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 17:39	EPA 8270C	
Simazine	<0.088	0.088	0.020	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 17:39	EPA 8270C	
Terbufos	<0.088	0.088	0.020	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 17:39	EPA 8270C	
Triallate	<0.088	0.088	0.011	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 17:39	EPA 8270C	
Trifluralin	<0.088	0.088	0.031	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 17:39	EPA 8270C	
Surr: Atrazine-d5	*83.9 %*	*Limits: 50-125%*			*B9I0629*	*9/29/09 14:47*	*10/5/09 17:39*	*EPA 8270C*	
Surr: Diazinon-d10	*83.2 %*	*Limits: 35-120%*			*B9I0629*	*9/29/09 14:47*	*10/5/09 17:39*	*EPA 8270C*	

Acid Extractable Pesticides (MDA List 2)

Sample Note(s): gg

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.056	0.056	0.010	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 17:26	EPA 8270C	
2,4,5-T.P.	<0.056	0.056	0.0078	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 17:26	EPA 8270C	
2,4-D	<0.056	0.056	0.013	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 17:26	EPA 8270C	
2,4-D.B.	<0.056	0.056	0.012	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 17:26	EPA 8270C	
Bentazon	<0.056	0.056	0.010	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 17:26	EPA 8270C	
Dicamba	<0.056	0.056	0.0089	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 17:26	EPA 8270C	
Dinoseb	<0.056	0.056	0.0056	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 17:26	EPA 8270C	go, qn
M.C.P.A.	<0.056	0.056	0.016	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 17:26	EPA 8270C	
Pentachlorophenol	<0.056	0.056	0.0078	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 17:26	EPA 8270C	
Picloram	<0.056	0.056	0.012	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 17:26	EPA 8270C	gp, qn
Triclopyr	<0.056	0.056	0.0067	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 17:26	EPA 8270C	
Surr: D.C.A.A.	*83.4 %*	*Limits: 50-125%*			*B9J0243*	*10/13/09 10:39*	*10/16/09 17:26*	*EPA 8270C*	

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UMP018935

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905313
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-GP13 (0.5-1)

0905313-02 (Soil)

9/1/09 12:40

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**89**	0.050	0.010	% Wt	B9I0548	9/25/09 12:59	9/25/09 16:37	EPA 3545 7.2	gg

Organochlorine Pesticides

Sample Note(s): gg2

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	**0.086**	0.028	0.0017	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:05	EPA 8081A	
4,4'-DDE	**0.030**	0.028	0.0029	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:31	EPA 8081A	
4,4'-DDT	**0.054**	0.028	0.0026	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:05	EPA 8081A	
Aldrin	<0.028	0.028	0.0036	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:05	EPA 8081A	
alpha-BHC	<0.028	0.028	0.0026	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:05	EPA 8081A	
alpha-Chlordane	**0.41**	0.028	0.0023	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:05	EPA 8081A	
beta-BHC	<0.028	0.028	0.0026	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:05	EPA 8081A	
delta-BHC	<0.028	0.028	0.0020	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:05	EPA 8081A	
Dieldrin	**0.060**	0.028	0.0025	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:05	EPA 8081A	
Endosulfan I	<0.028	0.028	0.0032	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:05	EPA 8081A	
Endosulfan II	<0.028	0.028	0.0024	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:05	EPA 8081A	
Endosulfan Sulfate	<0.028	0.028	0.0026	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:05	EPA 8081A	
Endrin	<0.028	0.028	0.0032	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:05	EPA 8081A	
Endrin Aldehyde	<0.028	0.028	0.011	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:05	EPA 8081A	
Endrin Ketone	<0.028	0.028	0.0035	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:05	EPA 8081A	
gamma-BHC	<0.028	0.028	0.0028	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:05	EPA 8081A	
gamma-Chlordane	**0.19**	0.028	0.0019	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:05	EPA 8081A	
Heptachlor	<0.028	0.028	0.0061	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:05	EPA 8081A	
Heptachlor Epoxide	<0.028	0.028	0.0049	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:05	EPA 8081A	
Methoxychlor	<0.028	0.028	0.0024	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:31	EPA 8081A	
Toxaphene	<0.56	0.56	0.11	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:05	EPA 8081A	
Surr: DBC	*95.4 %*	*Limits: 40-160%*			*B9I0602*	*9/29/09 6:48*	*10/1/09 19:31*	*EPA 8081A*	
Surr: TCMX	*92.3 %*	*Limits: 60-130%*			*B9I0602*	*9/29/09 6:48*	*10/1/09 19:05*	*EPA 8081A*	

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11001 Hampshire Ave. S.
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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905313
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-GP13 (0.5-1)

0905313-02 (Soil)

9/1/09 12:40

Neutral Extractable Pesticides (MDA List 1)

Sample Note(s): gg2

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.087	0.087	0.022	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:05	EPA 8270C	
Alachlor	<0.087	0.087	0.015	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:05	EPA 8270C	
Atrazine	<0.087	0.087	0.022	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:05	EPA 8270C	
Chlorpyrifos	<0.087	0.087	0.015	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:05	EPA 8270C	
Cyanazine	<0.087	0.087	0.017	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:05	EPA 8270C	
Deisopropylatrazine	<0.087	0.087	0.017	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:05	EPA 8270C	
Desethylatrazine	<0.087	0.087	0.024	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:05	EPA 8270C	
Dimethenamid	<0.087	0.087	0.013	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:05	EPA 8270C	
EPTC	<0.087	0.087	0.013	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:05	EPA 8270C	
Ethalfluralin	<0.087	0.087	0.030	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:05	EPA 8270C	
Fonofos	<0.087	0.087	0.0087	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:05	EPA 8270C	
Metolachlor	<0.087	0.087	0.0065	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:05	EPA 8270C	
Metribuzin	<0.087	0.087	0.020	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:05	EPA 8270C	
Pendimethalin	<0.087	0.087	0.035	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:05	EPA 8270C	
Phorate	<0.087	0.087	0.013	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:05	EPA 8270C	
Prometon	<0.087	0.087	0.013	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:05	EPA 8270C	
Propachlor	<0.087	0.087	0.020	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:05	EPA 8270C	
Propazine	<0.087	0.087	0.015	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:05	EPA 8270C	
Simazine	<0.087	0.087	0.020	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:05	EPA 8270C	
Terbufos	<0.087	0.087	0.020	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:05	EPA 8270C	
Triallate	<0.087	0.087	0.011	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:05	EPA 8270C	
Trifluralin	<0.087	0.087	0.030	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:05	EPA 8270C	
Surr: Atrazine-d5	*89.4 %*	*Limits: 50-125%*			*B9I0629*	*9/29/09 14:47*	*10/5/09 18:05*	*EPA 8270C*	
Surr: Diazinon-d10	*87.0 %*	*Limits: 35-120%*			*B9I0629*	*9/29/09 14:47*	*10/5/09 18:05*	*EPA 8270C*	

Acid Extractable Pesticides (MDA List 2)

Sample Note(s): gg

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.056	0.056	0.010	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 17:51	EPA 8270C	
2,4,5-T.P.	<0.056	0.056	0.0079	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 17:51	EPA 8270C	
2,4-D	<0.056	0.056	0.014	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 17:51	EPA 8270C	
2,4-D.B.	<0.056	0.056	0.012	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 17:51	EPA 8270C	
Bentazon	<0.056	0.056	0.010	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 17:51	EPA 8270C	
Dicamba	<0.056	0.056	0.0090	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 17:51	EPA 8270C	
Dinoseb	<0.056	0.056	0.0056	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 17:51	EPA 8270C	qn, go
M.C.P.A.	<0.056	0.056	0.016	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 17:51	EPA 8270C	
Pentachlorophenol	<0.056	0.056	0.0079	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 17:51	EPA 8270C	
Picloram	<0.056	0.056	0.012	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 17:51	EPA 8270C	gp, qn
Triclopyr	<0.056	0.056	0.0068	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 17:51	EPA 8270C	
Surr: D.C.A.A.	*82.6 %*	*Limits: 50-125%*			*B9J0243*	*10/13/09 10:39*	*10/16/09 17:51*	*EPA 8270C*	

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UMP018937

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905313
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-GP12 (0.5-1)

0905313-03 (Soil)

9/1/09 14:20

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**87**	0.050	0.010	% Wt	B9I0548	9/25/09 12:59	9/25/09 16:37	EPA 3545 7.2	gg

Organochlorine Pesticides

Sample Note(s): gg2

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.028	0.028	0.0017	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:31	EPA 8081A	
4,4'-DDE	**0.035**	0.028	0.0029	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:31	EPA 8081A	
4,4'-DDT	**0.070**	0.028	0.0025	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:57	EPA 8081A	
Aldrin	<0.028	0.028	0.0035	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:31	EPA 8081A	
alpha-BHC	<0.028	0.028	0.0025	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:31	EPA 8081A	
alpha-Chlordane	<0.028	0.028	0.0022	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:31	EPA 8081A	
beta-BHC	<0.028	0.028	0.0025	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:31	EPA 8081A	
delta-BHC	<0.028	0.028	0.0020	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:31	EPA 8081A	
Dieldrin	<0.028	0.028	0.0024	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:57	EPA 8081A	
Endosulfan I	<0.028	0.028	0.0031	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:31	EPA 8081A	
Endosulfan II	<0.028	0.028	0.0023	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:31	EPA 8081A	
Endosulfan Sulfate	<0.028	0.028	0.0025	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:31	EPA 8081A	
Endrin	<0.028	0.028	0.0031	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:31	EPA 8081A	
Endrin Aldehyde	<0.028	0.028	0.011	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:31	EPA 8081A	
Endrin Ketone	<0.028	0.028	0.0034	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:31	EPA 8081A	
gamma-BHC	<0.028	0.028	0.0028	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:31	EPA 8081A	
gamma-Chlordane	<0.028	0.028	0.0019	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:31	EPA 8081A	
Heptachlor	<0.028	0.028	0.0060	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:31	EPA 8081A	
Heptachlor Epoxide	<0.028	0.028	0.0048	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:31	EPA 8081A	
Methoxychlor	<0.028	0.028	0.0023	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:31	EPA 8081A	
Toxaphene	<0.55	0.55	0.11	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:31	EPA 8081A	
Surr: DBC	*102 %*	*Limits: 40-160%*			*B9I0602*	*9/29/09 6:48*	*10/1/09 19:57*	*EPA 8081A*	
Surr: TCMX	*96.8 %*	*Limits: 60-130%*			*B9I0602*	*9/29/09 6:48*	*10/1/09 19:31*	*EPA 8081A*	

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UMP018938

BRAUN INTERTEC

11001 Hampshire Ave. S.
Minneapolis, MN 55438
952.995.2000 Phone
952.995.2020 Fax

Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905313
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-GP12 (0.5-1)

0905313-03 (Soil)

9/1/09 14:20

Neutral Extractable Pesticides (MDA List 1)

Sample Note(s): gg2

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.090	0.090	0.022	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:31	EPA 8270C	
Alachlor	<0.090	0.090	0.016	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:31	EPA 8270C	
Atrazine	<0.090	0.090	0.022	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:31	EPA 8270C	
Chlorpyrifos	<0.090	0.090	0.016	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:31	EPA 8270C	
Cyanazine	<0.090	0.090	0.018	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:31	EPA 8270C	
Deisopropylatrazine	<0.090	0.090	0.018	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:31	EPA 8270C	
Desethylatrazine	<0.090	0.090	0.025	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:31	EPA 8270C	
Dimethenamid	<0.090	0.090	0.013	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:31	EPA 8270C	
EPTC	<0.090	0.090	0.013	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:31	EPA 8270C	
Ethalfluralin	<0.090	0.090	0.031	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:31	EPA 8270C	
Fonofos	<0.090	0.090	0.0090	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:31	EPA 8270C	
Metolachlor	<0.090	0.090	0.0067	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:31	EPA 8270C	
Metribuzin	<0.090	0.090	0.020	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:31	EPA 8270C	
Pendimethalin	<0.090	0.090	0.036	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:31	EPA 8270C	
Phorate	<0.090	0.090	0.013	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:31	EPA 8270C	
Prometon	<0.090	0.090	0.013	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:31	EPA 8270C	
Propachlor	<0.090	0.090	0.020	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:31	EPA 8270C	
Propazine	<0.090	0.090	0.016	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:31	EPA 8270C	
Simazine	<0.090	0.090	0.020	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:31	EPA 8270C	
Terbufos	<0.090	0.090	0.020	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:31	EPA 8270C	
Triallate	<0.090	0.090	0.011	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:31	EPA 8270C	
Trifluralin	<0.090	0.090	0.031	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:31	EPA 8270C	
Surr: Atrazine-d5	*94.1 %*	*Limits: 50-125%*			*B9I0629*	*9/29/09 14:47*	*10/5/09 18:31*	*EPA 8270C*	
Surr: Diazinon-d10	*98.5 %*	*Limits: 35-120%*			*B9I0629*	*9/29/09 14:47*	*10/5/09 18:31*	*EPA 8270C*	

Acid Extractable Pesticides (MDA List 2)

Sample Note(s): gg

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.056	0.056	0.010	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 18:16	EPA 8270C	
2,4,5-T.P.	<0.056	0.056	0.0078	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 18:16	EPA 8270C	
2,4-D	<0.056	0.056	0.013	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 18:16	EPA 8270C	
2,4-D.B.	<0.056	0.056	0.012	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 18:16	EPA 8270C	
Bentazon	<0.056	0.056	0.010	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 18:16	EPA 8270C	
Dicamba	<0.056	0.056	0.0089	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 18:16	EPA 8270C	
Dinoseb	<0.056	0.056	0.0056	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 18:16	EPA 8270C	qn, go
M.C.P.A.	<0.056	0.056	0.016	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 18:16	EPA 8270C	
Pentachlorophenol	<0.056	0.056	0.0078	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 18:16	EPA 8270C	
Picloram	<0.056	0.056	0.012	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 18:16	EPA 8270C	gp, qn
Triclopyr	<0.056	0.056	0.0067	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 18:16	EPA 8270C	
Surr: D.C.A.A.	*71.8 %*	*Limits: 50-125%*			*B9J0243*	*10/13/09 10:39*	*10/16/09 18:16*	*EPA 8270C*	

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UMP018939

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905313
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-GP14 (0.5-1)

0905313-04 (Soil)

9/1/09 15:40

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	**86**	0.050	0.010	% Wt	B9I0548	9/25/09 12:59	9/25/09 16:37	EPA 3545 7.2	gg

Organochlorine Pesticides

Sample Note(s): gg2

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.028	0.028	0.0017	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:57	EPA 8081A	
4,4'-DDE	<0.028	0.028	0.0030	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:57	EPA 8081A	
4,4'-DDT	<0.028	0.028	0.0026	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:57	EPA 8081A	
Aldrin	<0.028	0.028	0.0036	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:57	EPA 8081A	
alpha-BHC	<0.028	0.028	0.0026	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:57	EPA 8081A	
alpha-Chlordane	<0.028	0.028	0.0023	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:57	EPA 8081A	
beta-BHC	<0.028	0.028	0.0026	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:57	EPA 8081A	
delta-BHC	<0.028	0.028	0.0020	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:57	EPA 8081A	
Dieldrin	<0.028	0.028	0.0025	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:57	EPA 8081A	
Endosulfan I	<0.028	0.028	0.0032	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:57	EPA 8081A	
Endosulfan II	<0.028	0.028	0.0024	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:57	EPA 8081A	
Endosulfan Sulfate	<0.028	0.028	0.0026	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:57	EPA 8081A	
Endrin	<0.028	0.028	0.0032	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:57	EPA 8081A	
Endrin Aldehyde	<0.028	0.028	0.011	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:57	EPA 8081A	
Endrin Ketone	<0.028	0.028	0.0035	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:57	EPA 8081A	
gamma-BHC	<0.028	0.028	0.0028	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:57	EPA 8081A	
gamma-Chlordane	<0.028	0.028	0.0019	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:57	EPA 8081A	
Heptachlor	<0.028	0.028	0.0061	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:57	EPA 8081A	
Heptachlor Epoxide	<0.028	0.028	0.0049	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:57	EPA 8081A	
Methoxychlor	<0.028	0.028	0.0024	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:57	EPA 8081A	
Toxaphene	<0.57	0.57	0.11	mg/kg dry	B9I0602	9/29/09 6:48	10/1/09 19:57	EPA 8081A	
Surr: DBC	*69.3 %*	*Limits: 40-160%*			*B9I0602*	*9/29/09 6:48*	*10/1/09 19:57*	*EPA 8081A*	
Surr: TCMX	*62.2 %*	*Limits: 60-130%*			*B9I0602*	*9/29/09 6:48*	*10/1/09 19:57*	*EPA 8081A*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905313
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SOC5-GP14 (0.5-1)

0905313-04 (Soil)

9/1/09 15:40

Neutral Extractable Pesticides (MDA List 1)

Sample Note(s): gg2

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.090	0.090	0.023	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:57	EPA 8270C	
Alachlor	<0.090	0.090	0.016	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:57	EPA 8270C	
Atrazine	<0.090	0.090	0.023	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:57	EPA 8270C	
Chlorpyrifos	<0.090	0.090	0.016	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:57	EPA 8270C	
Cyanazine	<0.090	0.090	0.018	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:57	EPA 8270C	
Deisopropylatrazine	<0.090	0.090	0.018	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:57	EPA 8270C	
Desethylatrazine	<0.090	0.090	0.025	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:57	EPA 8270C	
Dimethenamid	<0.090	0.090	0.014	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:57	EPA 8270C	
EPTC	<0.090	0.090	0.014	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:57	EPA 8270C	
Ethalfluralin	<0.090	0.090	0.032	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:57	EPA 8270C	
Fonofos	<0.090	0.090	0.0090	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:57	EPA 8270C	
Metolachlor	<0.090	0.090	0.0068	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:57	EPA 8270C	
Metribuzin	<0.090	0.090	0.020	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:57	EPA 8270C	
Pendimethalin	<0.090	0.090	0.036	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:57	EPA 8270C	
Phorate	<0.090	0.090	0.014	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:57	EPA 8270C	
Prometon	<0.090	0.090	0.014	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:57	EPA 8270C	
Propachlor	<0.090	0.090	0.020	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:57	EPA 8270C	
Propazine	<0.090	0.090	0.016	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:57	EPA 8270C	
Simazine	<0.090	0.090	0.020	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:57	EPA 8270C	
Terbufos	<0.090	0.090	0.020	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:57	EPA 8270C	
Triallate	<0.090	0.090	0.011	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:57	EPA 8270C	
Trifluralin	<0.090	0.090	0.032	mg/kg dry	B9I0629	9/29/09 14:47	10/5/09 18:57	EPA 8270C	
Surr: Atrazine-d5	*90.3 %*	*Limits: 50-125%*			*B9I0629*	*9/29/09 14:47*	*10/5/09 18:57*	*EPA 8270C*	
Surr: Diazinon-d10	*89.3 %*	*Limits: 35-120%*			*B9I0629*	*9/29/09 14:47*	*10/5/09 18:57*	*EPA 8270C*	

Acid Extractable Pesticides (MDA List 2)

Sample Note(s): gg

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.058	0.058	0.010	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 18:41	EPA 8270C	
2,4,5-T.P.	<0.058	0.058	0.0081	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 18:41	EPA 8270C	
2,4-D	<0.058	0.058	0.014	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 18:41	EPA 8270C	
2,4-D.B.	<0.058	0.058	0.013	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 18:41	EPA 8270C	
Bentazon	<0.058	0.058	0.010	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 18:41	EPA 8270C	
Dicamba	<0.058	0.058	0.0093	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 18:41	EPA 8270C	
Dinoseb	<0.058	0.058	0.0058	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 18:41	EPA 8270C	qn, go
M.C.P.A.	<0.058	0.058	0.016	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 18:41	EPA 8270C	
Pentachlorophenol	<0.058	0.058	0.0081	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 18:41	EPA 8270C	
Picloram	<0.058	0.058	0.013	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 18:41	EPA 8270C	gp, qn
Triclopyr	<0.058	0.058	0.0070	mg/kg dry	B9J0243	10/13/09 10:39	10/16/09 18:41	EPA 8270C	
Surr: D.C.A.A.	*77.2 %*	*Limits: 50-125%*			*B9J0243*	*10/13/09 10:39*	*10/16/09 18:41*	*EPA 8270C*	

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UMP018941

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905313
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Classical Chemistry Parameters - Quality Control

Batch B9I0548 - Default Prep GenChem

Method Blank (B9I0548-BLK1) Prepared & Analyzed: 09/25/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	<0.050	0.050	0.010	% Wt	NA	NA	NA	NA	NA	NA	

Duplicate (B9I0548-DUP1) **Source: 0905312-01** Prepared & Analyzed: 09/25/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	79.9	0.050	0.010	% Wt	NA	79.4	NA	NA	0.644	20	

Standard Reference Material (B9I0548-SRM1) Prepared & Analyzed: 09/25/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	87.9			% Wt	91.3	NA	96.2	90-110	NA	NA	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905313
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0602 - EPA 3545

Method Blank (B9I0602-BLK1)

Prepared: 09/29/09 Analyzed: 10/01/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	<0.024	0.024	0.0015	mg/kg	NA	NA	NA	NA	NA	NA	
4,4'-DDE	<0.024	0.024	0.0025	mg/kg	NA	NA	NA	NA	NA	NA	
4,4'-DDT	<0.024	0.024	0.0023	mg/kg	NA	NA	NA	NA	NA	NA	
Aldrin	<0.024	0.024	0.0031	mg/kg	NA	NA	NA	NA	NA	NA	
alpha-BHC	<0.024	0.024	0.0023	mg/kg	NA	NA	NA	NA	NA	NA	
alpha-Chlordane	<0.024	0.024	0.0020	mg/kg	NA	NA	NA	NA	NA	NA	
beta-BHC	<0.024	0.024	0.0023	mg/kg	NA	NA	NA	NA	NA	NA	
delta-BHC	<0.024	0.024	0.0018	mg/kg	NA	NA	NA	NA	NA	NA	
Dieldrin	<0.024	0.024	0.0022	mg/kg	NA	NA	NA	NA	NA	NA	
Endosulfan I	<0.024	0.024	0.0027	mg/kg	NA	NA	NA	NA	NA	NA	
Endosulfan II	<0.024	0.024	0.0021	mg/kg	NA	NA	NA	NA	NA	NA	
Endosulfan Sulfate	<0.024	0.024	0.0023	mg/kg	NA	NA	NA	NA	NA	NA	
Endrin	<0.024	0.024	0.0027	mg/kg	NA	NA	NA	NA	NA	NA	
Endrin Aldehyde	<0.024	0.024	0.0094	mg/kg	NA	NA	NA	NA	NA	NA	
Endrin Ketone	<0.024	0.024	0.0030	mg/kg	NA	NA	NA	NA	NA	NA	
gamma-BHC	<0.024	0.024	0.0024	mg/kg	NA	NA	NA	NA	NA	NA	
gamma-Chlordane	<0.024	0.024	0.0017	mg/kg	NA	NA	NA	NA	NA	NA	
Heptachlor	<0.024	0.024	0.0053	mg/kg	NA	NA	NA	NA	NA	NA	
Heptachlor Epoxide	<0.024	0.024	0.0042	mg/kg	NA	NA	NA	NA	NA	NA	
Methoxychlor	<0.024	0.024	0.0021	mg/kg	NA	NA	NA	NA	NA	NA	
Toxaphene	<0.49	0.49	0.094	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: DBC	*0.194*			mg/kg	*0.245*	*NA*	*79.4*	*40-160*			
Surrogate: TCMX	*0.205*			mg/kg	*0.245*	*NA*	*83.8*	*60-130*			

Laboratory Control Sample (B9I0602-BS1)

Prepared: 09/29/09 Analyzed: 10/01/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.176	0.024	0.0015	mg/kg	0.196	NA	90.2	70-130	NA	NA	
4,4'-DDE	0.178	0.024	0.0025	mg/kg	0.196	NA	91.2	70-130	NA	NA	
4,4'-DDT	0.177	0.024	0.0022	mg/kg	0.196	NA	90.6	70-130	NA	NA	
Aldrin	0.174	0.024	0.0031	mg/kg	0.196	NA	89.2	70-130	NA	NA	
alpha-BHC	0.172	0.024	0.0022	mg/kg	0.196	NA	87.8	70-130	NA	NA	
alpha-Chlordane	0.175	0.024	0.0020	mg/kg	0.196	NA	89.7	70-130	NA	NA	
beta-BHC	0.173	0.024	0.0022	mg/kg	0.196	NA	88.5	70-130	NA	NA	
delta-BHC	0.174	0.024	0.0018	mg/kg	0.196	NA	89.0	70-130	NA	NA	
Dieldrin	0.175	0.024	0.0022	mg/kg	0.196	NA	89.3	70-130	NA	NA	
Endosulfan I	0.173	0.024	0.0027	mg/kg	0.196	NA	88.3	70-130	NA	NA	
Endosulfan II	0.173	0.024	0.0021	mg/kg	0.196	NA	88.5	70-130	NA	NA	
Endosulfan Sulfate	0.176	0.024	0.0022	mg/kg	0.196	NA	90.1	70-130	NA	NA	
Endrin	0.174	0.024	0.0027	mg/kg	0.196	NA	89.0	70-130	NA	NA	
Endrin Aldehyde	0.185	0.024	0.0094	mg/kg	0.196	NA	94.9	70-130	NA	NA	
Endrin Ketone	0.169	0.024	0.0030	mg/kg	0.196	NA	86.5	70-130	NA	NA	
gamma-BHC	0.172	0.024	0.0024	mg/kg	0.196	NA	87.9	70-130	NA	NA	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0602 - EPA 3545

Laboratory Control Sample (B9I0602-BS1)

Prepared: 09/29/09 Analyzed: 10/01/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
gamma-Chlordane	0.174	0.024	0.0017	mg/kg	0.196	NA	89.0	70-130	NA	NA	
Heptachlor	0.175	0.024	0.0053	mg/kg	0.196	NA	89.3	70-130	NA	NA	
Heptachlor Epoxide	0.172	0.024	0.0042	mg/kg	0.196	NA	87.9	70-130	NA	NA	
Methoxychlor	0.180	0.024	0.0021	mg/kg	0.196	NA	92.1	70-130	NA	NA	
Surrogate: DBC	*0.251*			mg/kg	*0.244*	*NA*	*103*	*40-160*			
Surrogate: TCMX	*0.250*			mg/kg	*0.244*	*NA*	*102*	*60-130*			

Laboratory Control Sample Duplicate (B9I0602-BSD1)

Prepared: 09/29/09 Analyzed: 10/01/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.179	0.025	0.0015	mg/kg	0.196	NA	91.2	70-130	1.36	25	
4,4'-DDE	0.179	0.025	0.0026	mg/kg	0.196	NA	91.5	70-130	0.614	25	
4,4'-DDT	0.182	0.025	0.0023	mg/kg	0.196	NA	92.7	70-130	2.62	25	
Aldrin	0.176	0.025	0.0032	mg/kg	0.196	NA	89.8	70-130	1.02	25	
alpha-BHC	0.175	0.025	0.0023	mg/kg	0.196	NA	89.1	70-130	1.74	25	
alpha-Chlordane	0.177	0.025	0.0020	mg/kg	0.196	NA	90.1	70-130	0.703	25	
beta-BHC	0.175	0.025	0.0023	mg/kg	0.196	NA	89.2	70-130	1.06	25	
delta-BHC	0.175	0.025	0.0018	mg/kg	0.196	NA	89.2	70-130	0.563	25	
Dieldrin	0.177	0.025	0.0022	mg/kg	0.196	NA	90.3	70-130	1.31	25	
Endosulfan I	0.175	0.025	0.0028	mg/kg	0.196	NA	89.2	70-130	1.33	25	
Endosulfan II	0.175	0.025	0.0021	mg/kg	0.196	NA	89.3	70-130	1.22	25	
Endosulfan Sulfate	0.179	0.025	0.0023	mg/kg	0.196	NA	91.5	70-130	1.84	25	
Endrin	0.177	0.025	0.0028	mg/kg	0.196	NA	90.2	70-130	1.72	25	
Endrin Aldehyde	0.181	0.025	0.0096	mg/kg	0.196	NA	92.4	70-130	2.38	25	
Endrin Ketone	0.171	0.025	0.0031	mg/kg	0.196	NA	87.1	70-130	1.08	25	
gamma-BHC	0.175	0.025	0.0025	mg/kg	0.196	NA	89.1	70-130	1.69	25	
gamma-Chlordane	0.178	0.025	0.0017	mg/kg	0.196	NA	90.6	70-130	2.03	25	
Heptachlor	0.177	0.025	0.0054	mg/kg	0.196	NA	90.5	70-130	1.62	25	
Heptachlor Epoxide	0.173	0.025	0.0043	mg/kg	0.196	NA	88.3	70-130	0.741	25	
Methoxychlor	0.187	0.025	0.0021	mg/kg	0.196	NA	95.5	70-130	3.97	25	
Surrogate: DBC	*0.255*			mg/kg	*0.245*	*NA*	*104*	*40-160*			
Surrogate: TCMX	*0.251*			mg/kg	*0.245*	*NA*	*102*	*60-130*			

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UMP018944

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0602 - EPA 3545

Matrix Spike (B9I0602-MS1)

Source: 0905387-01 Prepared: 09/29/09 Analyzed: 10/01/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.171	0.024	0.0015	mg/kg dry	0.195	ND	87.5	50-130	NA	NA	
4,4'-DDE	0.173	0.024	0.0025	mg/kg dry	0.195	ND	88.9	50-130	NA	NA	
4,4'-DDT	0.173	0.024	0.0022	mg/kg dry	0.195	ND	88.8	50-130	NA	NA	
Aldrin	0.168	0.024	0.0031	mg/kg dry	0.195	ND	86.1	50-130	NA	NA	
alpha-BHC	0.166	0.024	0.0022	mg/kg dry	0.195	ND	85.2	50-130	NA	NA	
alpha-Chlordane	0.169	0.024	0.0020	mg/kg dry	0.195	ND	86.6	50-130	NA	NA	
beta-BHC	0.171	0.024	0.0022	mg/kg dry	0.195	ND	87.6	50-130	NA	NA	
delta-BHC	0.168	0.024	0.0018	mg/kg dry	0.195	ND	86.0	50-130	NA	NA	
Dieldrin	0.170	0.024	0.0021	mg/kg dry	0.195	ND	87.1	50-130	NA	NA	
Endosulfan I	0.166	0.024	0.0027	mg/kg dry	0.195	ND	85.2	50-130	NA	NA	
Endosulfan II	0.168	0.024	0.0020	mg/kg dry	0.195	ND	86.4	50-130	NA	NA	
Endosulfan Sulfate	0.172	0.024	0.0022	mg/kg dry	0.195	ND	88.1	50-130	NA	NA	
Endrin	0.170	0.024	0.0027	mg/kg dry	0.195	ND	87.1	50-130	NA	NA	
Endrin Aldehyde	0.170	0.024	0.0094	mg/kg dry	0.195	ND	86.9	50-130	NA	NA	
Endrin Ketone	0.170	0.024	0.0030	mg/kg dry	0.195	ND	87.1	50-130	NA	NA	
gamma-BHC	0.170	0.024	0.0024	mg/kg dry	0.195	ND	87.1	50-130	NA	NA	
gamma-Chlordane	0.170	0.024	0.0017	mg/kg dry	0.195	ND	87.4	50-130	NA	NA	
Heptachlor	0.170	0.024	0.0053	mg/kg dry	0.195	ND	87.4	50-130	NA	NA	
Heptachlor Epoxide	0.168	0.024	0.0042	mg/kg dry	0.195	ND	86.2	50-130	NA	NA	
Methoxychlor	0.176	0.024	0.0020	mg/kg dry	0.195	ND	90.1	50-130	NA	NA	
Surrogate: DBC	*0.247*			mg/kg dry	*0.244*	*NA*	*101*	*40-160*			
Surrogate: TCMX	*0.241*			mg/kg dry	*0.244*	*NA*	*99.0*	*60-130*			

Matrix Spike Duplicate (B9I0602-MSD1)

Source: 0905387-01 Prepared: 09/29/09 Analyzed: 10/01/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.184	0.024	0.0014	mg/kg dry	0.193	ND	95.4	50-130	7.46	25	
4,4'-DDE	0.187	0.024	0.0025	mg/kg dry	0.193	ND	96.9	50-130	7.50	25	
4,4'-DDT	0.186	0.024	0.0022	mg/kg dry	0.193	ND	96.6	50-130	7.28	25	
Aldrin	0.183	0.024	0.0031	mg/kg dry	0.193	ND	95.1	50-130	8.77	25	
alpha-BHC	0.180	0.024	0.0022	mg/kg dry	0.193	ND	93.5	50-130	8.11	25	
alpha-Chlordane	0.182	0.024	0.0019	mg/kg dry	0.193	ND	94.2	50-130	7.24	25	
beta-BHC	0.184	0.024	0.0022	mg/kg dry	0.193	ND	95.4	50-130	7.45	25	
delta-BHC	0.181	0.024	0.0017	mg/kg dry	0.193	ND	93.9	50-130	7.60	25	
Dieldrin	0.183	0.024	0.0021	mg/kg dry	0.193	ND	95.1	50-130	7.66	25	
Endosulfan I	0.179	0.024	0.0027	mg/kg dry	0.193	ND	92.6	50-130	7.17	25	
Endosulfan II	0.181	0.024	0.0020	mg/kg dry	0.193	ND	94.1	50-130	7.36	25	
Endosulfan Sulfate	0.182	0.024	0.0022	mg/kg dry	0.193	ND	94.6	50-130	5.93	25	
Endrin	0.183	0.024	0.0027	mg/kg dry	0.193	ND	95.0	50-130	7.57	25	
Endrin Aldehyde	0.184	0.024	0.0093	mg/kg dry	0.193	ND	95.6	50-130	8.44	25	
Endrin Ketone	0.182	0.024	0.0030	mg/kg dry	0.193	ND	94.5	50-130	7.09	25	
gamma-BHC	0.184	0.024	0.0024	mg/kg dry	0.193	ND	95.4	50-130	7.98	25	
gamma-Chlordane	0.184	0.024	0.0016	mg/kg dry	0.193	ND	95.6	50-130	7.85	25	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905313
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9I0602 - EPA 3545

Matrix Spike Duplicate (B9I0602-MSD1) **Source: 0905387-01** Prepared: 09/29/09 Analyzed: 10/01/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Heptachlor	0.184	0.024	0.0052	mg/kg dry	0.193	ND	95.4	50-130	7.65	25	
Heptachlor Epoxide	0.181	0.024	0.0041	mg/kg dry	0.193	ND	94.0	50-130	7.56	25	
Methoxychlor	0.184	0.024	0.0020	mg/kg dry	0.193	ND	95.2	50-130	4.45	25	
Surrogate: DBC	*0.257*			mg/kg dry	*0.241*	*NA*	*107*	*40-160*			
Surrogate: TCMX	*0.262*			mg/kg dry	*0.241*	*NA*	*109*	*60-130*			

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0629 - EPA 3546

Method Blank (B9I0629-BLK1)

Prepared: 09/29/09 Analyzed: 10/05/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	<0.077	0.077	0.019	mg/kg	NA	NA	NA	NA	NA	NA	
Alachlor	<0.077	0.077	0.013	mg/kg	NA	NA	NA	NA	NA	NA	
Atrazine	<0.077	0.077	0.019	mg/kg	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	<0.077	0.077	0.013	mg/kg	NA	NA	NA	NA	NA	NA	
Cyanazine	<0.077	0.077	0.015	mg/kg	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	<0.077	0.077	0.015	mg/kg	NA	NA	NA	NA	NA	NA	
Desethylatrazine	<0.077	0.077	0.021	mg/kg	NA	NA	NA	NA	NA	NA	
Dimethenamid	<0.077	0.077	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
EPTC	<0.077	0.077	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Ethalfluralin	<0.077	0.077	0.027	mg/kg	NA	NA	NA	NA	NA	NA	
Fonofos	<0.077	0.077	0.0077	mg/kg	NA	NA	NA	NA	NA	NA	
Metolachlor	<0.077	0.077	0.0057	mg/kg	NA	NA	NA	NA	NA	NA	
Metribuzin	<0.077	0.077	0.017	mg/kg	NA	NA	NA	NA	NA	NA	
Pendimethalin	<0.077	0.077	0.031	mg/kg	NA	NA	NA	NA	NA	NA	
Phorate	<0.077	0.077	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Prometon	<0.077	0.077	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Propachlor	<0.077	0.077	0.017	mg/kg	NA	NA	NA	NA	NA	NA	
Propazine	<0.077	0.077	0.013	mg/kg	NA	NA	NA	NA	NA	NA	
Simazine	<0.077	0.077	0.017	mg/kg	NA	NA	NA	NA	NA	NA	
Terbufos	<0.077	0.077	0.017	mg/kg	NA	NA	NA	NA	NA	NA	
Triallate	<0.077	0.077	0.0096	mg/kg	NA	NA	NA	NA	NA	NA	
Trifluralin	<0.077	0.077	0.027	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: Atrazine-d5	*0.606*			mg/kg	*0.639*	*NA*	*94.9*	*50-125*			
Surrogate: Diazinon-d10	*0.602*			mg/kg	*0.639*	*NA*	*94.2*	*35-120*			

Laboratory Control Sample (B9I0629-BS1)

Prepared: 09/29/09 Analyzed: 10/05/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.518	0.078	0.019	mg/kg	0.648	NA	80.0	70-120	NA	NA	
Alachlor	0.532	0.078	0.014	mg/kg	0.648	NA	82.2	70-120	NA	NA	
Atrazine	0.518	0.078	0.019	mg/kg	0.648	NA	80.0	70-120	NA	NA	
Chlorpyrifos	0.490	0.078	0.014	mg/kg	0.648	NA	75.6	70-120	NA	NA	
Cyanazine	0.520	0.078	0.016	mg/kg	0.648	NA	80.3	70-120	NA	NA	
Deisopropylatrazine	0.471	0.078	0.016	mg/kg	0.648	NA	72.7	65-115	NA	NA	
Desethylatrazine	0.552	0.078	0.021	mg/kg	0.648	NA	85.2	70-120	NA	NA	
Dimethenamid	0.498	0.078	0.012	mg/kg	0.648	NA	76.9	70-120	NA	NA	
EPTC	0.436	0.078	0.012	mg/kg	0.648	NA	67.3	60-105	NA	NA	
Ethalfluralin	0.475	0.078	0.027	mg/kg	0.648	NA	73.3	70-120	NA	NA	
Fonofos	0.486	0.078	0.0078	mg/kg	0.648	NA	75.0	70-115	NA	NA	
Metolachlor	0.520	0.078	0.0058	mg/kg	0.648	NA	80.3	70-120	NA	NA	
Metribuzin	0.511	0.078	0.017	mg/kg	0.648	NA	78.9	70-120	NA	NA	
Pendimethalin	0.558	0.078	0.031	mg/kg	0.648	NA	86.2	70-120	NA	NA	
Phorate	0.484	0.078	0.012	mg/kg	0.648	NA	74.7	70-115	NA	NA	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0629 - EPA 3546

Laboratory Control Sample (B9I0629-BS1)

Prepared: 09/29/09 Analyzed: 10/05/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	0.497	0.078	0.012	mg/kg	0.648	NA	76.8	70-120	NA	NA	
Propachlor	0.466	0.078	0.017	mg/kg	0.648	NA	72.0	70-115	NA	NA	
Propazine	0.506	0.078	0.014	mg/kg	0.648	NA	78.2	70-120	NA	NA	
Simazine	0.608	0.078	0.017	mg/kg	0.648	NA	93.8	60-115	NA	NA	
Terbufos	0.474	0.078	0.017	mg/kg	0.648	NA	73.2	70-115	NA	NA	
Triallate	0.472	0.078	0.0097	mg/kg	0.648	NA	72.9	70-115	NA	NA	
Trifluralin	0.473	0.078	0.027	mg/kg	0.648	NA	73.1	70-115	NA	NA	
Surrogate: Atrazine-d5	*0.505*			mg/kg	*0.648*	*NA*	*77.9*	*50-125*			
Surrogate: Diazinon-d10	*0.512*			mg/kg	*0.648*	*NA*	*79.0*	*35-120*			

Laboratory Control Sample Duplicate (B9I0629-BSD1)

Prepared: 09/29/09 Analyzed: 10/05/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.533	0.079	0.020	mg/kg	0.662	NA	80.6	70-120	2.91	20	
Alachlor	0.525	0.079	0.014	mg/kg	0.662	NA	79.3	70-120	1.43	20	
Atrazine	0.538	0.079	0.020	mg/kg	0.662	NA	81.3	70-120	3.77	20	
Chlorpyrifos	0.497	0.079	0.014	mg/kg	0.662	NA	75.1	70-120	1.50	20	
Cyanazine	0.524	0.079	0.016	mg/kg	0.662	NA	79.2	70-120	0.781	20	
Deisopropylatrazine	0.508	0.079	0.016	mg/kg	0.662	NA	76.8	65-115	7.64	20	
Desethylatrazine	0.574	0.079	0.022	mg/kg	0.662	NA	86.8	70-120	4.02	20	
Dimethenamid	0.523	0.079	0.012	mg/kg	0.662	NA	79.0	70-120	4.85	20	
EPTC	0.453	0.079	0.012	mg/kg	0.662	NA	68.4	60-105	3.78	20	
Ethalfluralin	0.485	0.079	0.028	mg/kg	0.662	NA	73.3	70-120	2.16	20	
Fonofos	0.510	0.079	0.0079	mg/kg	0.662	NA	77.1	70-115	4.92	20	
Metolachlor	0.552	0.079	0.0060	mg/kg	0.662	NA	83.4	70-120	5.95	20	
Metribuzin	0.553	0.079	0.018	mg/kg	0.662	NA	83.6	70-120	7.94	20	
Pendimethalin	0.574	0.079	0.032	mg/kg	0.662	NA	86.7	70-120	2.74	20	
Phorate	0.516	0.079	0.012	mg/kg	0.662	NA	77.9	70-115	6.35	20	
Prometon	0.524	0.079	0.012	mg/kg	0.662	NA	79.2	70-120	5.24	20	
Propachlor	0.531	0.079	0.018	mg/kg	0.662	NA	80.3	70-115	13.1	20	
Propazine	0.539	0.079	0.014	mg/kg	0.662	NA	81.4	70-120	6.17	20	
Simazine	0.639	0.079	0.018	mg/kg	0.662	NA	96.5	60-115	5.00	20	
Terbufos	0.499	0.079	0.018	mg/kg	0.662	NA	75.4	70-115	5.12	20	
Triallate	0.488	0.079	0.0099	mg/kg	0.662	NA	73.8	70-115	3.39	20	
Trifluralin	0.516	0.079	0.028	mg/kg	0.662	NA	77.9	70-115	8.52	20	
Surrogate: Atrazine-d5	*0.533*			mg/kg	*0.662*	*NA*	*80.6*	*50-125*			
Surrogate: Diazinon-d10	*0.531*			mg/kg	*0.662*	*NA*	*80.3*	*35-120*			

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UMP018948

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905313
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0629 - EPA 3546

Matrix Spike (B9I0629-MS1)

Source: 0905313-02 Prepared: 09/29/09 Analyzed: 10/05/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.532	0.086	0.022	mg/kg dry	0.718	ND	74.1	50-120	NA	NA	
Alachlor	0.554	0.086	0.015	mg/kg dry	0.718	ND	77.2	55-120	NA	NA	
Atrazine	0.539	0.086	0.022	mg/kg dry	0.718	ND	75.1	60-120	NA	NA	
Chlorpyrifos	0.472	0.086	0.015	mg/kg dry	0.718	ND	65.7	40-125	NA	NA	
Cyanazine	0.490	0.086	0.017	mg/kg dry	0.718	ND	68.2	55-125	NA	NA	
Deisopropylatrazine	0.512	0.086	0.017	mg/kg dry	0.718	ND	71.3	55-120	NA	NA	
Desethylatrazine	0.574	0.086	0.024	mg/kg dry	0.718	ND	80.0	60-125	NA	NA	
Dimethenamid	0.556	0.086	0.013	mg/kg dry	0.718	ND	77.5	55-120	NA	NA	
EPTC	0.464	0.086	0.013	mg/kg dry	0.718	ND	64.7	40-105	NA	NA	
Ethalfluralin	0.423	0.086	0.030	mg/kg dry	0.718	ND	58.9	40-120	NA	NA	
Fonofos	0.533	0.086	0.0086	mg/kg dry	0.718	ND	74.2	45-115	NA	NA	
Metolachlor	0.523	0.086	0.0065	mg/kg dry	0.718	ND	72.9	50-125	NA	NA	
Metribuzin	0.559	0.086	0.019	mg/kg dry	0.718	ND	77.8	55-125	NA	NA	
Pendimethalin	0.518	0.086	0.034	mg/kg dry	0.718	ND	72.2	40-120	NA	NA	
Phorate	0.490	0.086	0.013	mg/kg dry	0.718	ND	68.3	40-115	NA	NA	
Prometon	0.538	0.086	0.013	mg/kg dry	0.718	ND	74.9	60-125	NA	NA	
Propachlor	0.540	0.086	0.019	mg/kg dry	0.718	ND	75.2	60-115	NA	NA	
Propazine	0.516	0.086	0.015	mg/kg dry	0.718	ND	71.9	55-120	NA	NA	
Simazine	0.629	0.086	0.019	mg/kg dry	0.718	ND	87.6	50-120	NA	NA	
Terbufos	0.491	0.086	0.019	mg/kg dry	0.718	ND	68.4	40-120	NA	NA	
Triallate	0.477	0.086	0.011	mg/kg dry	0.718	ND	66.5	40-115	NA	NA	
Trifluralin	0.454	0.086	0.030	mg/kg dry	0.718	ND	63.3	40-115	NA	NA	
Surrogate: Atrazine-d5	*0.567*			mg/kg dry	*0.718*	*NA*	*79.0*	*50-125*			
Surrogate: Diazinon-d10	*0.510*			mg/kg dry	*0.718*	*NA*	*71.1*	*35-120*			

Matrix Spike Duplicate (B9I0629-MSD1)

Source: 0905313-02 Prepared: 09/29/09 Analyzed: 10/05/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.567	0.086	0.021	mg/kg dry	0.717	ND	79.1	50-120	6.34	25	
Alachlor	0.588	0.086	0.015	mg/kg dry	0.717	ND	82.0	55-120	5.84	25	
Atrazine	0.592	0.086	0.021	mg/kg dry	0.717	ND	82.6	60-120	9.32	25	
Chlorpyrifos	0.474	0.086	0.015	mg/kg dry	0.717	ND	66.2	40-125	0.568	25	
Cyanazine	0.542	0.086	0.017	mg/kg dry	0.717	ND	75.6	55-125	10.1	25	
Deisopropylatrazine	0.527	0.086	0.017	mg/kg dry	0.717	ND	73.5	55-120	2.85	25	
Desethylatrazine	0.608	0.086	0.024	mg/kg dry	0.717	ND	84.9	60-125	5.75	25	
Dimethenamid	0.565	0.086	0.013	mg/kg dry	0.717	ND	78.8	55-120	1.47	25	
EPTC	0.536	0.086	0.013	mg/kg dry	0.717	ND	74.8	40-105	14.3	25	
Ethalfluralin	0.516	0.086	0.030	mg/kg dry	0.717	ND	72.0	40-120	19.8	25	
Fonofos	0.548	0.086	0.0086	mg/kg dry	0.717	ND	76.5	45-115	2.86	25	
Metolachlor	0.561	0.086	0.0064	mg/kg dry	0.717	ND	78.3	50-125	6.95	25	
Metribuzin	0.587	0.086	0.019	mg/kg dry	0.717	ND	81.9	55-125	4.94	25	
Pendimethalin	0.540	0.086	0.034	mg/kg dry	0.717	ND	75.4	40-120	4.15	25	
Phorate	0.504	0.086	0.013	mg/kg dry	0.717	ND	70.4	40-115	2.84	25	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905313
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9I0629 - EPA 3546

Matrix Spike Duplicate (B9I0629-MSD1) **Source: 0905313-02** Prepared: 09/29/09 Analyzed: 10/05/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	0.598	0.086	0.013	mg/kg dry	0.717	ND	83.4	60-125	10.5	25	
Propachlor	0.581	0.086	0.019	mg/kg dry	0.717	ND	81.1	60-115	7.36	25	
Propazine	0.555	0.086	0.015	mg/kg dry	0.717	ND	77.4	55-120	7.18	25	
Simazine	0.692	0.086	0.019	mg/kg dry	0.717	ND	96.6	50-120	9.58	25	
Terbufos	0.529	0.086	0.019	mg/kg dry	0.717	ND	73.8	40-120	7.40	25	
Triallate	0.497	0.086	0.011	mg/kg dry	0.717	ND	69.3	40-115	3.93	25	
Trifluralin	0.482	0.086	0.030	mg/kg dry	0.717	ND	67.3	40-115	5.94	25	
Surrogate: Atrazine-d5	*0.588*			mg/kg dry	*0.717*	*NA*	*82.0*	*50-125*			
Surrogate: Diazinon-d10	*0.525*			mg/kg dry	*0.717*	*NA*	*73.3*	*35-120*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905313
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9J0243 - EPA 3545

Method Blank (B9J0243-BLK1)

Prepared: 10/13/09 Analyzed: 10/16/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	<0.049	0.049	0.0088	mg/kg	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	<0.049	0.049	0.0069	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D	<0.049	0.049	0.012	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D.B.	<0.049	0.049	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Bentazon	<0.049	0.049	0.0088	mg/kg	NA	NA	NA	NA	NA	NA	
Dicamba	<0.049	0.049	0.0078	mg/kg	NA	NA	NA	NA	NA	NA	
Dinoseb	<0.049	0.049	0.0049	mg/kg	NA	NA	NA	NA	NA	NA	
M.C.P.A.	<0.049	0.049	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	<0.049	0.049	0.0069	mg/kg	NA	NA	NA	NA	NA	NA	
Picloram	<0.049	0.049	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Triclopyr	<0.049	0.049	0.0059	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	*0.142*			mg/kg	*0.163*	*NA*	*87.2*	*50-125*			

Laboratory Control Sample (B9J0243-BS1)

Prepared: 10/13/09 Analyzed: 10/16/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.130	0.050	0.0090	mg/kg	0.165	NA	78.6	60-125	NA	NA	
2,4,5-T.P.	0.136	0.050	0.0070	mg/kg	0.165	NA	82.4	65-125	NA	NA	
2,4-D	0.135	0.050	0.012	mg/kg	0.165	NA	81.6	60-125	NA	NA	
2,4-D.B.	0.139	0.050	0.011	mg/kg	0.165	NA	84.0	70-130	NA	NA	
Bentazon	0.155	0.050	0.0090	mg/kg	0.165	NA	94.2	65-125	NA	NA	
Dicamba	0.124	0.050	0.0080	mg/kg	0.165	NA	75.4	60-120	NA	NA	
Dinoseb	<0.050	0.050	0.0050	mg/kg	0.165	NA	23.8	30-120	NA	NA	
M.C.P.A.	0.137	0.050	0.014	mg/kg	0.165	NA	82.8	60-115	NA	NA	
Pentachlorophenol	0.139	0.050	0.0070	mg/kg	0.165	NA	84.0	50-120	NA	NA	
Picloram	0.0620	0.050	0.011	mg/kg	0.165	NA	37.6	30-100	NA	NA	
Triclopyr	0.129	0.050	0.0060	mg/kg	0.165	NA	78.4	65-120	NA	NA	
Surrogate: D.C.A.A.	*0.154*			mg/kg	*0.165*	*NA*	*93.2*	*50-125*			

Laboratory Control Sample Duplicate (B9J0243-BSD1)

Prepared: 10/13/09 Analyzed: 10/16/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.120	0.049	0.0088	mg/kg	0.162	NA	74.0	60-125	7.60	25	
2,4,5-T.P.	0.136	0.049	0.0068	mg/kg	0.162	NA	84.0	65-125	0.352	25	
2,4-D	0.145	0.049	0.012	mg/kg	0.162	NA	89.2	60-125	7.33	25	
2,4-D.B.	0.131	0.049	0.011	mg/kg	0.162	NA	80.4	70-130	5.95	25	
Bentazon	0.146	0.049	0.0088	mg/kg	0.162	NA	90.2	65-125	5.91	25	
Dicamba	0.130	0.049	0.0078	mg/kg	0.162	NA	80.0	60-120	4.35	25	
Dinoseb	<0.049	0.049	0.0049	mg/kg	0.162	NA	22.4	30-120	7.63	25	
M.C.P.A.	0.138	0.049	0.014	mg/kg	0.162	NA	84.8	60-115	0.816	25	
Pentachlorophenol	0.129	0.049	0.0068	mg/kg	0.162	NA	79.2	50-120	7.45	25	
Picloram	0.0994	0.049	0.011	mg/kg	0.162	NA	61.2	30-100	46.3	25	
Triclopyr	0.137	0.049	0.0058	mg/kg	0.162	NA	84.4	65-120	5.80	25	

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UMP018951

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905313
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9J0243 - EPA 3545

Laboratory Control Sample Duplicate (B9J0243-BSD1)

Prepared: 10/13/09 Analyzed: 10/16/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: D.C.A.A.	*0.151*			mg/kg	*0.162*	*NA*	*92.8*	*50-125*			

Matrix Spike (B9J0243-MS1)

Source: 0905313-04RE1 Prepared: 10/13/09 Analyzed: 10/16/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.123	0.058	0.010	mg/kg dry	0.191	ND	64.4	30-130	NA	NA	
2,4,5-T.P.	0.126	0.058	0.0081	mg/kg dry	0.191	ND	66.2	40-130	NA	NA	
2,4-D	0.127	0.058	0.014	mg/kg dry	0.191	ND	66.4	30-125	NA	NA	
2,4-D.B.	0.135	0.058	0.013	mg/kg dry	0.191	ND	70.8	70-130	NA	NA	
Bentazon	0.186	0.058	0.010	mg/kg dry	0.191	ND	97.4	65-125	NA	NA	
Dicamba	0.128	0.058	0.0093	mg/kg dry	0.191	ND	67.2	30-120	NA	NA	
Dinoseb	<0.058	0.058	0.0058	mg/kg dry	0.191	ND	25.4	30-120	NA	NA	
M.C.P.A.	0.137	0.058	0.016	mg/kg dry	0.191	ND	72.0	30-120	NA	NA	
Pentachlorophenol	0.136	0.058	0.0081	mg/kg dry	0.191	ND	71.2	50-120	NA	NA	
Picloram	<0.058	0.058	0.013	mg/kg dry	0.191	ND	NA	30-100	NA	NA	
Triclopyr	0.147	0.058	0.0070	mg/kg dry	0.191	ND	77.0	30-120	NA	NA	
Surrogate: D.C.A.A.	*0.150*			mg/kg dry	*0.191*	*NA*	*78.8*	*50-125*			

Matrix Spike Duplicate (B9J0243-MSD1)

Source: 0905313-04RE1 Prepared: 10/13/09 Analyzed: 10/16/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.123	0.058	0.010	mg/kg dry	0.191	ND	64.6	30-130	0.376	25	
2,4,5-T.P.	0.125	0.058	0.0081	mg/kg dry	0.191	ND	65.4	40-130	1.15	25	
2,4-D	0.134	0.058	0.014	mg/kg dry	0.191	ND	70.2	30-125	5.63	25	
2,4-D.B.	0.143	0.058	0.013	mg/kg dry	0.191	ND	75.0	70-130	5.83	25	
Bentazon	0.159	0.058	0.010	mg/kg dry	0.191	ND	83.0	65-125	15.9	25	
Dicamba	0.135	0.058	0.0093	mg/kg dry	0.191	ND	70.6	30-120	5.00	25	
Dinoseb	<0.058	0.058	0.0058	mg/kg dry	0.191	ND	23.4	30-120	8.13	25	
M.C.P.A.	0.139	0.058	0.016	mg/kg dry	0.191	ND	73.0	30-120	1.45	25	
Pentachlorophenol	0.142	0.058	0.0081	mg/kg dry	0.191	ND	74.4	50-120	4.46	25	
Picloram	<0.058	0.058	0.013	mg/kg dry	0.191	ND	NA	30-100	NA	25	
Triclopyr	0.146	0.058	0.0070	mg/kg dry	0.191	ND	76.6	30-120	0.455	25	
Surrogate: D.C.A.A.	*0.162*			mg/kg dry	*0.191*	*NA*	*84.6*	*50-125*			

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UMP018952

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905313
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

0904785 Relog
0905313

9/11 off Hold Relog * samples

Analyze for List 1 List 2 UMore OC Pest.

Chain of Custody

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07

COC 1 of 2

Project Manager: SME

Project Contact: KSN

Sampled by: ESC

Laboratory: Braun

Project Number: 23/19-B05.SI.RI.300.0

Project Name: UMA SSI/RI

№ 28514

Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: OC	Volatile Organics (Pres.)*1	Semivolatile Organics *2	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	General (Unpreserved)*3	Cyanide (NaOH)	Nutrients (H_2SO_4)*4	Oil and Grease (H_2SO_4)	Sulfide (Zn Acetate)	Methane	Bacteria ($Na_2S_2O_3$)	DRO (HCl)	List 1+2 Pesticides	OC Pesticides	Atrazine	VOCs (2-oz tared MeOH)*1	GRO, BTEX (2-oz tared MeOH)*1	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.)*2	% Moisture (plastic vial, unpres.)	OC Pesticides	List 1+2 Pesticides	Total No. Of Containers	Remarks
1. SOC5-GP4	9-1-09	0900	X		X															4	1										7	See attached analyte list
2. SOC5-GP27(4.5-5)	9-1-09	1050		X	X																							1	1	1	3	← Hold + freeze
3. * SOC5-GP27(0.5-1')	9/1/09	1040		X		X																						1	1	1	3	Hold + Freeze
4. SOC5-GP27(2-2.5')	9/1/09	1045		X		X																						1	1	1	3	See Attached List
5. * SOC5-GP13(0.5-1')	9/1/09	1240		X		X																						1	1	1	3	Hold + Freeze
6. SOC5-GP13(2-2.5)	9/1/09	1245		X		X																						1	1	1	3	See Attached List
7. SOC5-GP13(4.5-5)	9/1/09	1250		X	X																							1	1	1	3	Hold + Freeze
8. * SOC5-GP12(0.5-1')	9/1/09	1420		X		X																						1	1	1	3	Hold + Freeze
9. SOC5-GP12(2-2.5')	9/1/09	1425		X		X																						1	1	1	3	See Attached List
10. SOC5-GP12(4.5-5)	9/1/09	1430		X	X																							1	1	1	3	Hold + Freeze
11. * SOC5-GP14(0.5-1')	9/1/09	1540		X		X																						1	1	1	3	Hold + Freeze
12. SOC5-GP14(2-2.5')	9/1/09	1545		X		X																						1	1	1	3	See Attached List

Common Parameter/Container - Preservation Key
*1 - Volatile Organics = BTEX, GRO, TPH, Full List
*2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
*3 - General = pH, Chloride, Flouride, Alkalinity, TSS, TDS, TS, Sulfate
*4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
[signature] BT	Y N	9/3/09	1045			
Relinquished By:	On Ice? Y N	Date	Time	Received by: [signature]	Date 9/3/09	Time 1025

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other

Air Bill Number: C#1: 3.7°C C#2: 3.1°C +1C6 + TB

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905313
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

~~0904795~~ Rel: 0905313

Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number: 23/19-B05.31RI30D
Project Name: UMA SSI/RI
№ 28509

COC 2 of 2
Project Manager: JME
Project Contact: KSN
Sampled by: ESC
Laboratory: Braun

Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Volatile Organics (Pres.)*1	Semivolatile Organics *2	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	General (Unpreserved)*3	Cyanide (NaOH)	Nutrients (H_2SO_4)*4	Oil and Grease (H_2SO_4)	Sulfide (Zn Acetate)	Methane	Bacteria ($Na_2S_2O_3$)	DRO (HCl)	VOCs (2-oz tared MeOH)*1	GRO, BTEX (2-oz tared MeOH)*1	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.)*2	% Moisture (plastic vial, unpres.)	QC Perf	List #2	Total No. Of Containers	Remarks
1. SOCS-6904(1S-5)	9/1/09	1550		X		X																			1	1	1	3	Hold + Freeze
2.																													
3.																													
4.																													
5.																													
6.																													
7.																													
8.																													
9.																													
10.																													
11.																													
12.																													

Common Parameter/Container - Preservation Key
*1 - Volatile Organics = BTEX, GRO, TPH, Full List
*2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
*3 - General = pH, Chloride, Flouride, Alkalinity, TSS, TDS, TS, Sulfate
*4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
[signature]	Y N	9/3/09	0945			
Relinquished By:	On Ice? Y N	Date	Time	Received by:	Date	Time

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other _____
Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab, Yellow - Field Copy; Pink - Lab Coordinator

H:\LG\STD\CHAIN\Chain Of Custody Form RLG Rev 070105

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Braun Intertec Corporation
11001 Hampshire Avenue S.
Minneapolis, MN 55438

Phone: 952.995.2000
Fax: 952.995.2020
Web: braunintertec.com

Ms. Kelly Neppl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

October 20, 2009

Work Order #: 0905428
(Revised)

RE: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300

Dear Kelly Neppl:

Braun Intertec Corporation received samples for the project identified above on September 30, 2009. Analytical results are summarized in the following report.

All routine quality assurance procedures were followed, unless otherwise noted.

Analytical results are reported on an "as received" basis unless otherwise noted. Where possible, the samples will be retained by the laboratory for 14 days following issuance of the initial final report. The samples will be disposed of or returned at that time. Arrangements can be made for extended storage by contacting me at this time.

We appreciate your decision to use Braun Intertec Corporation for this project. We are committed to being your vendor of choice to meet your analytical chemistry needs.

If you have any questions please contact me at the above phone number.

Sincerely,

Steven J. Albrecht

Steven J. Albrecht
Associate Principal

Certification/Accreditation Numbers

Minnesota Department of Health: 027-053-117 Wisconsin DNR: 999462640

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905428
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

How to Use this Report

In order to get the most out of the information presented in this report please refer to the following explanations as to how the data in this report is tied together and how some of the terms are defined.

Qualifiers and Abbreviations are defined in the following section. You will find these codes used throughout the report in headers and in note sections to designate a unique fact about the data to which they are associated.

The Case Narrative gives a "story" about the analysis and results. Here you will find greater elaboration on relevant qualifiers as well as an explanation of anything of particular note in the data. This is a discussion of the data in terms of quality control and chemistry. It is a summary of any deviations that could affect the usefulness of the data. This is not an interpretation as to how this information relates to regulatory compliance, toxicity, or hazardous characterization. These items are beyond the scope of this report.

The Sample Summary provides detail on sample receipt. The association between Client sample ID and the Laboratory sample ID are defined here; this information is valuable to have when discussing results with your project manager. Sample collection and receipt dates and times are provided here as well. General notes regarding the work order are also documented here. This is a mini "case narrative" that describes any anomalies regarding the condition of the samples upon arrival to the laboratory or special circumstances regarding the work order.

The Conditions Upon Receipt summarizes the results of specific checks that have been performed at sample receipt. This includes items like custody documentation, sample condition, and temperature at receipt. Each "cooler" is identified and the conditions associated with that cooler are documented. A "cooler" is defined as the larger container used to transport the individual samples. In most cases this is a standard recreational cooler but it can be a box, plastic bag, or other container.

The laboratory results are summarized in the following sections. Data is broken down into major categories for convenience. An example of such a category would be "Total Petroleum Hydrocarbons." Here you would find data that references the testing of such parameters as diesel range organics and gasoline range organics. Other categories are similarly mapped. The batch number is associated with each sample. This is important to evaluate Quality Control (QC) data. Surrogate results samples are provided with each sample. Laboratory control limits are provided for comparison (see below). The reference method is also identified. If a method is denoted with an "M" (e.g. EPA 1234(M)) this means that it has been modified. An explanation of the modification will be found in the Case Narrative. A result is given with appropriate units. If a soil sample is dry-weight corrected then the word "dry" will appear next to the units. If the word "dry" does not appear then the result is "as received."

The Method Reporting Limit (MRL) and Method Detection Limit (MDL) are provided. It is important to understand these terms. The MRL is a level that has been empirically verified to provide reliable quantitation of results. Results that are equal to or greater than this value will show up in bold. They are considered "hits." The MDL is a statistically derived number that indicates an estimated concentration at which an analyte can be detected above the noise level. If a result is less than the MRL but greater than the MDL then it is considered an estimate. Such a result is reported with a "J" flag denoting that it has been detected but that the result is an estimate.

In this specific report format, the majority of the analyses are reported without estimated concentrations less than the MRL. For these analyses, if a result is less than the MRL, the result is given as less than the MRL (e.g. if the MRL = 10 then a less than result would be given as "<10"). However, for the Organochlorine Pesticides in water and MDA List 1 Pesticides in water analyses, if a result is less than the MRL but greater than the MDL, then an estimated result is reported with a "J" flag. If a result for either of these two analyses is less than the MDL, then the result is given as less than the MDL.

The Quality Control (QC) samples are documented in the following section. Here you will find the preparation batches associated with each sample from the results section. The sample preparation method is also defined here. Accuracy is represented here in terms of a percent recovery as compared to a known value. Precision is represented as a relative percent difference between two duplicate sample aliquots. The laboratory control limits are provided as a means to evaluate the quality control data. If the result falls outside the laboratory control limits this simply means that it is outside what is typical for the laboratory and is noted accordingly. This does not mean that the data is invalid. Laboratory control limits are generally tighter than most program limits. This is a very important distinction. How the data is ultimately used determines its validity. Program requirements are defined in the Quality Assurance Project Plan (QAPP) governing the project. If your project manager is aware of your specific program requirements then a note will be made in the case narrative if the data fails to meet any of these requirements.

The last section contains copies of important documents and/or instrument printouts relevant to the report. This includes the chain of custody. It also may include items like chromatograms or spectra.

Please note that this report is paginated and must be reproduced in its entirety.

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905428
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Qualifiers and Abbreviations

qn	The spike recovery is outside of laboratory control limits for the matrix spike (MS) and/or the matrix spike duplicate (MSD).
gp	The relative percent difference (RPD) for the laboratory control sample and laboratory control sample duplicate is outside of laboratory control limits.
go	The laboratory control sample recovery is outside of laboratory control limits.
COC	Chain of Custody
dry	Sample results reported on a dry weight basis
MDL	Method Detection Limit
MRL	Method Reporting Limit
NA	Not Applicable
ND	Analyte NOT DETECTED
NR	Not Reported
%Rec	Percent Recovery
RPD	Relative Percent Difference
VOC	Volatile Organic Compound

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WSW-207605	0905428-01	Water	09/29/09 11:55	09/30/09 08:20
WSW-208402	0905428-02	Water	09/29/09 13:20	09/30/09 08:20

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Conditions Upon Receipt

Cooler: Cooler 1

Temperature:	1.7 °C	**COC Included:**	Yes	**Custody Seals Used:**	No
Temperature Blank:	Yes	**COC Complete:**	Yes	**Custody Seals Intact:**	NA
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	Yes
Preservation Confirmed:	Yes	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

Cooler: Cooler 2

Temperature:	0.8 °C	**COC Included:**	Yes	**Custody Seals Used:**	No
Temperature Blank:	Yes	**COC Complete:**	Yes	**Custody Seals Intact:**	NA
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	Yes
Preservation Confirmed:	Yes	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

Cooler: Cooler 3

Temperature:	1.9 °C	**COC Included:**	Yes	**Custody Seals Used:**	No
Temperature Blank:	Yes	**COC Complete:**	Yes	**Custody Seals Intact:**	NA
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	Yes
Preservation Confirmed:	Yes	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

WSW-207605

0905428-01 (Water)

9/29/09 11:55

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Total Kjeldahl Nitrogen	<0.50	0.50	0.17	mg/L	B9J0097	10/6/09 14:05	10/8/09 10:42	EPA 351.2	
Nitrate + Nitrite as N	**1.9**	0.020	0.0069	mg/L	B9J0159	10/8/09 9:42	10/8/09 14:34	SM4500 NO3F	

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.016	0.25	0.016	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:24	EPA 8081A	
4,4'-DDE	<0.016	0.25	0.016	ug/L	B9J0048	10/2/09 16:48	10/6/09 2:58	EPA 8081A	
4,4'-DDT	<0.020	0.25	0.020	ug/L	B9J0048	10/2/09 16:48	10/6/09 2:58	EPA 8081A	
Aldrin	<0.018	0.25	0.018	ug/L	B9J0048	10/2/09 16:48	10/6/09 2:58	EPA 8081A	
alpha-BHC	<0.021	0.25	0.021	ug/L	B9J0048	10/2/09 16:48	10/6/09 2:58	EPA 8081A	go
alpha-Chlordane	<0.016	0.25	0.016	ug/L	B9J0048	10/2/09 16:48	10/6/09 2:58	EPA 8081A	
beta-BHC	<0.016	0.25	0.016	ug/L	B9J0048	10/2/09 16:48	10/6/09 2:58	EPA 8081A	
delta-BHC	<0.014	0.25	0.014	ug/L	B9J0048	10/2/09 16:48	10/6/09 2:58	EPA 8081A	
Dieldrin	<0.024	0.25	0.024	ug/L	B9J0048	10/2/09 16:48	10/6/09 2:58	EPA 8081A	
Endosulfan I	<0.021	0.25	0.021	ug/L	B9J0048	10/2/09 16:48	10/6/09 2:58	EPA 8081A	
Endosulfan II	<0.019	0.25	0.019	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:24	EPA 8081A	
Endosulfan Sulfate	<0.019	0.25	0.019	ug/L	B9J0048	10/2/09 16:48	10/6/09 2:58	EPA 8081A	
Endrin	<0.020	0.25	0.020	ug/L	B9J0048	10/2/09 16:48	10/6/09 2:58	EPA 8081A	
Endrin Aldehyde	<0.040	0.25	0.040	ug/L	B9J0048	10/2/09 16:48	10/6/09 2:58	EPA 8081A	
Endrin Ketone	<0.019	0.25	0.019	ug/L	B9J0048	10/2/09 16:48	10/6/09 2:58	EPA 8081A	
gamma-BHC	<0.020	0.25	0.020	ug/L	B9J0048	10/2/09 16:48	10/6/09 2:58	EPA 8081A	go
gamma-Chlordane	<0.042	0.25	0.042	ug/L	B9J0048	10/2/09 16:48	10/6/09 2:58	EPA 8081A	
Heptachlor	<0.018	0.25	0.018	ug/L	B9J0048	10/2/09 16:48	10/6/09 2:58	EPA 8081A	
Heptachlor Epoxide	<0.038	0.25	0.038	ug/L	B9J0048	10/2/09 16:48	10/6/09 2:58	EPA 8081A	
Methoxychlor	<0.026	0.25	0.026	ug/L	B9J0048	10/2/09 16:48	10/6/09 2:58	EPA 8081A	
Toxaphene	<1.0	5.0	1.0	ug/L	B9J0048	10/2/09 16:48	10/6/09 2:58	EPA 8081A	
Surr: DBC	*90.8 %*	*Limits: 40-130%*			*B9J0048*	*10/2/09 16:48*	*10/6/09 2:58*	*EPA 8081A*	
Surr: TCMX	*57.8 %*	*Limits: 40-120%*			*B9J0048*	*10/2/09 16:48*	*10/6/09 3:24*	*EPA 8081A*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905428
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

WSW-207605

0905428-01 (Water)

9/29/09 11:55

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.25	0.50	0.25	ug/L	B9J0033	10/2/09 8:54	10/5/09 21:57	EPA 8270C	
Alachlor	<0.19	0.50	0.19	ug/L	B9J0033	10/2/09 8:54	10/5/09 21:57	EPA 8270C	
Atrazine	<0.24	0.50	0.24	ug/L	B9J0033	10/2/09 8:54	10/5/09 21:57	EPA 8270C	
Chlorpyrifos	<0.34	0.50	0.34	ug/L	B9J0033	10/2/09 8:54	10/5/09 21:57	EPA 8270C	
Cyanazine	<0.48	0.50	0.48	ug/L	B9J0033	10/2/09 8:54	10/5/09 21:57	EPA 8270C	
Deisopropylatrazine	<0.26	0.50	0.26	ug/L	B9J0033	10/2/09 8:54	10/5/09 21:57	EPA 8270C	
Desethylatrazine	<0.29	0.50	0.29	ug/L	B9J0033	10/2/09 8:54	10/5/09 21:57	EPA 8270C	
Dimethenamid	<0.24	0.50	0.24	ug/L	B9J0033	10/2/09 8:54	10/5/09 21:57	EPA 8270C	
EPTC	<0.22	0.50	0.22	ug/L	B9J0033	10/2/09 8:54	10/5/09 21:57	EPA 8270C	
Ethalfluralin	<0.47	0.50	0.47	ug/L	B9J0033	10/2/09 8:54	10/5/09 21:57	EPA 8270C	
Fonofos	<0.30	0.50	0.30	ug/L	B9J0033	10/2/09 8:54	10/5/09 21:57	EPA 8270C	
Metolachlor	<0.28	0.50	0.28	ug/L	B9J0033	10/2/09 8:54	10/5/09 21:57	EPA 8270C	
Metribuzin	<0.35	0.50	0.35	ug/L	B9J0033	10/2/09 8:54	10/5/09 21:57	EPA 8270C	
Pendimethalin	<0.25	0.50	0.25	ug/L	B9J0033	10/2/09 8:54	10/5/09 21:57	EPA 8270C	
Phorate	<0.58	1.0	0.58	ug/L	B9J0033	10/2/09 8:54	10/5/09 21:57	EPA 8270C	qn
Prometon	<0.29	0.50	0.29	ug/L	B9J0033	10/2/09 8:54	10/5/09 21:57	EPA 8270C	
Propachlor	<0.14	0.50	0.14	ug/L	B9J0033	10/2/09 8:54	10/5/09 21:57	EPA 8270C	
Propazine	<0.21	0.50	0.21	ug/L	B9J0033	10/2/09 8:54	10/5/09 21:57	EPA 8270C	
Simazine	<0.32	0.50	0.32	ug/L	B9J0033	10/2/09 8:54	10/5/09 21:57	EPA 8270C	go, qn
Terbufos	<0.54	1.0	0.54	ug/L	B9J0033	10/2/09 8:54	10/5/09 21:57	EPA 8270C	
Triallate	<0.34	0.50	0.34	ug/L	B9J0033	10/2/09 8:54	10/5/09 21:57	EPA 8270C	
Trifluralin	<0.21	0.50	0.21	ug/L	B9J0033	10/2/09 8:54	10/5/09 21:57	EPA 8270C	
Surr: Atrazine-d5	*109 %*	*Limits: 50-120%*			*B9J0033*	*10/2/09 8:54*	*10/5/09 21:57*	*EPA 8270C*	
Surr: Diazinon-d10	*109 %*	*Limits: 50-120%*			*B9J0033*	*10/2/09 8:54*	*10/5/09 21:57*	*EPA 8270C*	

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UMP018961

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905428
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

WSW-207605

0905428-01 (Water)

9/29/09 11:55

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.52	0.52	0.32	ug/L	B9J0038	10/2/09 11:14	10/7/09 15:46	EPA 8270C	gp
2,4,5-T.P.	<0.52	0.52	0.29	ug/L	B9J0038	10/2/09 11:14	10/7/09 15:46	EPA 8270C	
2,4-D	<0.52	0.52	0.27	ug/L	B9J0038	10/2/09 11:14	10/7/09 15:46	EPA 8270C	
2,4-D.B.	<0.52	0.52	0.15	ug/L	B9J0038	10/2/09 11:14	10/7/09 15:46	EPA 8270C	
Bentazon	<0.52	0.52	0.23	ug/L	B9J0038	10/2/09 11:14	10/7/09 15:46	EPA 8270C	
Dicamba	<0.52	0.52	0.39	ug/L	B9J0038	10/2/09 11:14	10/7/09 15:46	EPA 8270C	
Dinoseb	<0.52	0.52	0.35	ug/L	B9J0038	10/2/09 11:14	10/7/09 15:46	EPA 8270C	
M.C.P.A.	<0.31	0.31	0.30	ug/L	B9J0038	10/2/09 11:14	10/7/09 15:46	EPA 8270C	
Pentachlorophenol	<0.52	0.52	0.40	ug/L	B9J0038	10/2/09 11:14	10/7/09 15:46	EPA 8270C	
Picloram	<0.52	0.52	0.26	ug/L	B9J0038	10/2/09 11:14	10/7/09 15:46	EPA 8270C	
Triclopyr	<0.52	0.52	0.42	ug/L	B9J0038	10/2/09 11:14	10/7/09 15:46	EPA 8270C	
Surr: D.C.A.A.	*87.0 %*	*Limits: 65-130%*			*B9J0038*	*10/2/09 11:14*	*10/7/09 15:46*	*EPA 8270C*	

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Minneapolis, MN 55438
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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905428
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

WSW-208402

0905428-02 (Water)

9/29/09 13:20

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.25	0.50	0.25	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:23	EPA 8270C	
Alachlor	<0.19	0.50	0.19	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:23	EPA 8270C	
Atrazine	<0.24	0.50	0.24	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:23	EPA 8270C	
Chlorpyrifos	<0.34	0.50	0.34	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:23	EPA 8270C	
Cyanazine	<0.48	0.50	0.48	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:23	EPA 8270C	
Deisopropylatrazine	<0.26	0.50	0.26	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:23	EPA 8270C	
Desethylatrazine	<0.29	0.50	0.29	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:23	EPA 8270C	
Dimethenamid	<0.24	0.50	0.24	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:23	EPA 8270C	
EPTC	<0.22	0.50	0.22	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:23	EPA 8270C	
Ethalfluralin	<0.47	0.50	0.47	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:23	EPA 8270C	
Fonofos	<0.30	0.50	0.30	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:23	EPA 8270C	
Metolachlor	<0.28	0.50	0.28	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:23	EPA 8270C	
Metribuzin	<0.35	0.50	0.35	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:23	EPA 8270C	
Pendimethalin	<0.25	0.50	0.25	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:23	EPA 8270C	
Phorate	<0.58	1.0	0.58	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:23	EPA 8270C	qn
Prometon	<0.29	0.50	0.29	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:23	EPA 8270C	
Propachlor	<0.14	0.50	0.14	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:23	EPA 8270C	
Propazine	<0.21	0.50	0.21	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:23	EPA 8270C	
Simazine	<0.32	0.50	0.32	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:23	EPA 8270C	go, qn
Terbufos	<0.54	1.0	0.54	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:23	EPA 8270C	
Triallate	<0.34	0.50	0.34	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:23	EPA 8270C	
Trifluralin	<0.21	0.50	0.21	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:23	EPA 8270C	
Surr: Atrazine-d5	*102 %*	*Limits: 50-120%*			*B9J0033*	*10/2/09 8:54*	*10/5/09 22:23*	*EPA 8270C*	
Surr: Diazinon-d10	*101 %*	*Limits: 50-120%*			*B9J0033*	*10/2/09 8:54*	*10/5/09 22:23*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905428
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

WSW-208402

0905428-02 (Water)

9/29/09 13:20

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.51	0.51	0.32	ug/L	B9J0038	10/2/09 11:14	10/7/09 16:11	EPA 8270C	gp
2,4,5-T.P.	<0.51	0.51	0.29	ug/L	B9J0038	10/2/09 11:14	10/7/09 16:11	EPA 8270C	
2,4-D	<0.51	0.51	0.27	ug/L	B9J0038	10/2/09 11:14	10/7/09 16:11	EPA 8270C	
2,4-D.B.	<0.51	0.51	0.15	ug/L	B9J0038	10/2/09 11:14	10/7/09 16:11	EPA 8270C	
Bentazon	<0.51	0.51	0.23	ug/L	B9J0038	10/2/09 11:14	10/7/09 16:11	EPA 8270C	
Dicamba	<0.51	0.51	0.39	ug/L	B9J0038	10/2/09 11:14	10/7/09 16:11	EPA 8270C	
Dinoseb	<0.51	0.51	0.35	ug/L	B9J0038	10/2/09 11:14	10/7/09 16:11	EPA 8270C	
M.C.P.A.	<0.31	0.31	0.30	ug/L	B9J0038	10/2/09 11:14	10/7/09 16:11	EPA 8270C	
Pentachlorophenol	<0.51	0.51	0.40	ug/L	B9J0038	10/2/09 11:14	10/7/09 16:11	EPA 8270C	
Picloram	<0.51	0.51	0.26	ug/L	B9J0038	10/2/09 11:14	10/7/09 16:11	EPA 8270C	
Triclopyr	<0.51	0.51	0.42	ug/L	B9J0038	10/2/09 11:14	10/7/09 16:11	EPA 8270C	
Surr: D.C.A.A.	*83.4 %*	*Limits: 65-130%*			*B9J0038*	*10/2/09 11:14*	*10/7/09 16:11*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905428
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Classical Chemistry Parameters - Quality Control

Batch B9J0097 - EPA 351.2

Method Blank (B9J0097-BLK1)

Prepared: 10/06/09 Analyzed: 10/08/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	<0.50	0.50	0.17	mg/L	NA	NA	NA	NA	NA	NA	

Laboratory Control Sample (B9J0097-BS1)

Prepared: 10/06/09 Analyzed: 10/08/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	2.39	0.50	0.17	mg/L	2.50	NA	95.6	90-110	NA	NA	

Laboratory Control Sample Duplicate (B9J0097-BSD1)

Prepared: 10/06/09 Analyzed: 10/08/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	2.43	0.50	0.17	mg/L	2.50	NA	97.1	90-110	1.58	20	

Matrix Spike (B9J0097-MS1)

Source: 0905321-02 Prepared: 10/06/09 Analyzed: 10/08/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	4.56	0.50	0.17	mg/L	2.50	2.05	100	90-110	NA	NA	

Matrix Spike Duplicate (B9J0097-MSD1)

Source: 0905321-02 Prepared: 10/06/09 Analyzed: 10/08/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	4.33	0.50	0.17	mg/L	2.50	2.05	91.2	90-110	5.18	20	

Batch B9J0159 - NO PREP

Method Blank (B9J0159-BLK1)

Prepared & Analyzed: 10/08/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	<0.020	0.020	0.0069	mg/L	NA	NA	NA	NA	NA	NA	

Laboratory Control Sample (B9J0159-BS1)

Prepared & Analyzed: 10/08/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	0.522	0.020	0.0069	mg/L	0.500	NA	104	80-120	NA	NA	

Laboratory Control Sample Duplicate (B9J0159-BSD1)

Prepared & Analyzed: 10/08/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate + Nitrite as N	0.517	0.020	0.0069	mg/L	0.500	NA	103	80-120	1.04	20	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9J0048 - EPA 3510C

Method Blank (B9J0048-BLK1)

Prepared: 10/02/09 Analyzed: 10/06/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
4,4'-DDE	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
4,4'-DDT	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
Aldrin	<0.018	0.25	0.018	ug/L	NA	NA	NA	NA	NA	NA	
alpha-BHC	<0.021	0.25	0.021	ug/L	NA	NA	NA	NA	NA	NA	
alpha-Chlordane	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
beta-BHC	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
delta-BHC	<0.014	0.25	0.014	ug/L	NA	NA	NA	NA	NA	NA	
Dieldrin	<0.024	0.25	0.024	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan I	<0.021	0.25	0.021	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan II	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan Sulfate	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
Endrin	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
Endrin Aldehyde	<0.040	0.25	0.040	ug/L	NA	NA	NA	NA	NA	NA	
Endrin Ketone	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
gamma-BHC	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
gamma-Chlordane	<0.042	0.25	0.042	ug/L	NA	NA	NA	NA	NA	NA	
Heptachlor	<0.018	0.25	0.018	ug/L	NA	NA	NA	NA	NA	NA	
Heptachlor Epoxide	<0.038	0.25	0.038	ug/L	NA	NA	NA	NA	NA	NA	
Methoxychlor	<0.026	0.25	0.026	ug/L	NA	NA	NA	NA	NA	NA	
Toxaphene	<1.0	5.0	1.0	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: DBC	*2.13*			ug/L	*2.50*	*NA*	*85.1*	*40-130*			
Surrogate: TCMX	*1.12*			ug/L	*2.50*	*NA*	*44.9*	*40-120*			

Laboratory Control Sample (B9J0048-BS1)

Prepared: 10/02/09 Analyzed: 10/06/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.17	0.25	0.016	ug/L	2.50	NA	86.9	80-120	NA	NA	
4,4'-DDE	2.04	0.25	0.016	ug/L	2.50	NA	81.6	80-120	NA	NA	
4,4'-DDT	2.28	0.25	0.020	ug/L	2.50	NA	91.2	80-120	NA	NA	
Aldrin	1.93	0.25	0.018	ug/L	2.50	NA	77.3	60-110	NA	NA	
alpha-BHC	2.01	0.25	0.021	ug/L	2.50	NA	80.5	70-120	NA	NA	
alpha-Chlordane	2.10	0.25	0.016	ug/L	2.50	NA	84.0	80-120	NA	NA	
beta-BHC	2.19	0.25	0.016	ug/L	2.50	NA	87.7	80-120	NA	NA	
Chlordane (tech)	< J	1.0		ug/L	NA	NA	NA	80-120	NA	NA	
delta-BHC	2.20	0.25	0.014	ug/L	2.50	NA	88.0	80-120	NA	NA	
Dieldrin	2.14	0.25	0.024	ug/L	2.50	NA	85.7	80-120	NA	NA	
Endosulfan I	2.13	0.25	0.021	ug/L	2.50	NA	85.4	80-120	NA	NA	
Endosulfan II	2.17	0.25	0.019	ug/L	2.50	NA	86.8	80-120	NA	NA	
Endosulfan Sulfate	2.23	0.25	0.019	ug/L	2.50	NA	89.1	80-120	NA	NA	
Endrin	2.20	0.25	0.020	ug/L	2.50	NA	88.1	80-120	NA	NA	
Endrin Aldehyde	2.23	0.25	0.040	ug/L	2.50	NA	89.0	80-120	NA	NA	
Endrin Ketone	2.29	0.25	0.019	ug/L	2.50	NA	91.5	80-120	NA	NA	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905428
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9J0048 - EPA 3510C

Laboratory Control Sample (B9J0048-BS1)

Prepared: 10/02/09 Analyzed: 10/06/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
gamma-BHC	2.12	0.25	0.020	ug/L	2.50	NA	84.7	80-120	NA	NA	
gamma-Chlordane	2.11	0.25	0.042	ug/L	2.50	NA	84.5	80-120	NA	NA	
Heptachlor	2.07	0.25	0.018	ug/L	2.50	NA	82.6	60-110	NA	NA	
Heptachlor Epoxide	2.16	0.25	0.038	ug/L	2.50	NA	86.4	80-120	NA	NA	
Methoxychlor	2.45	0.25	0.026	ug/L	2.50	NA	98.0	80-120	NA	NA	
Toxaphene	<1.0	5.0	1.0	ug/L	NA	NA	NA	80-120	NA	NA	
Surrogate: DBC	*2.19*			ug/L	*2.50*	*NA*	*87.7*	*40-130*			
Surrogate: TCMX	*1.36*			ug/L	*2.50*	*NA*	*54.2*	*40-120*			

Laboratory Control Sample Duplicate (B9J0048-BSD1)

Prepared: 10/02/09 Analyzed: 10/06/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.20	0.25	0.016	ug/L	2.50	NA	88.1	80-120	1.38	25	
4,4'-DDE	2.09	0.25	0.016	ug/L	2.50	NA	83.7	80-120	2.47	25	
4,4'-DDT	2.37	0.25	0.020	ug/L	2.50	NA	94.8	80-120	3.89	25	
Aldrin	1.71	0.25	0.018	ug/L	2.50	NA	68.6	60-110	12.0	25	
alpha-BHC	1.68	0.25	0.021	ug/L	2.50	NA	67.2	70-120	17.9	25	
alpha-Chlordane	2.08	0.25	0.016	ug/L	2.50	NA	83.0	80-120	1.14	25	
beta-BHC	2.15	0.25	0.016	ug/L	2.50	NA	85.9	80-120	2.00	25	
delta-BHC	2.18	0.25	0.014	ug/L	2.50	NA	87.1	80-120	1.01	25	
Dieldrin	2.10	0.25	0.024	ug/L	2.50	NA	84.0	80-120	2.04	25	
Endosulfan I	2.06	0.25	0.021	ug/L	2.50	NA	82.4	80-120	3.54	25	
Endosulfan II	2.17	0.25	0.019	ug/L	2.50	NA	86.7	80-120	0.149	25	
Endosulfan Sulfate	2.23	0.25	0.019	ug/L	2.50	NA	89.3	80-120	0.285	25	
Endrin	2.18	0.25	0.020	ug/L	2.50	NA	87.2	80-120	1.10	25	
Endrin Aldehyde	2.23	0.25	0.040	ug/L	2.50	NA	89.0	80-120	0.0234	25	
Endrin Ketone	2.28	0.25	0.019	ug/L	2.50	NA	91.3	80-120	0.210	25	
gamma-BHC	1.89	0.25	0.020	ug/L	2.50	NA	75.6	80-120	11.4	25	
gamma-Chlordane	2.06	0.25	0.042	ug/L	2.50	NA	82.5	80-120	2.36	25	
Heptachlor	1.83	0.25	0.018	ug/L	2.50	NA	73.2	60-110	12.1	25	
Heptachlor Epoxide	2.09	0.25	0.038	ug/L	2.50	NA	83.5	80-120	3.47	25	
Methoxychlor	2.50	0.25	0.026	ug/L	2.50	NA	100	80-120	1.98	25	
Surrogate: DBC	*2.16*			ug/L	*2.50*	*NA*	*86.2*	*40-130*			
Surrogate: TCMX	*1.02*			ug/L	*2.50*	*NA*	*41.0*	*40-120*			

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9J0048 - EPA 3510C

Matrix Spike (B9J0048-MS1)

Source: 0905429-01 Prepared: 10/02/09 Analyzed: 10/06/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.22	0.25	0.016	ug/L	2.53	ND	88.0	50-130	NA	NA	
4,4'-DDE	2.05	0.25	0.016	ug/L	2.53	ND	81.2	50-130	NA	NA	
4,4'-DDT	2.31	0.25	0.020	ug/L	2.53	ND	91.4	50-130	NA	NA	
Aldrin	2.01	0.25	0.018	ug/L	2.53	ND	79.5	50-130	NA	NA	
alpha-BHC	2.18	0.25	0.021	ug/L	2.53	ND	86.5	50-130	NA	NA	
alpha-Chlordane	2.12	0.25	0.016	ug/L	2.53	ND	84.0	50-130	NA	NA	
beta-BHC	2.35	0.25	0.016	ug/L	2.53	ND	93.1	50-130	NA	NA	
Chlordane (tech)	< J	1.0		ug/L	NA	0.00	NA	50-130	NA	NA	
delta-BHC	2.35	0.25	0.014	ug/L	2.53	ND	93.0	50-130	NA	NA	
Dieldrin	2.23	0.25	0.024	ug/L	2.53	ND	88.5	50-130	NA	NA	
Endosulfan I	2.23	0.25	0.021	ug/L	2.53	ND	88.5	50-130	NA	NA	
Endosulfan II	2.28	0.25	0.019	ug/L	2.53	ND	90.2	50-130	NA	NA	
Endosulfan Sulfate	2.37	0.25	0.019	ug/L	2.53	ND	93.9	50-130	NA	NA	
Endrin	2.33	0.25	0.020	ug/L	2.53	ND	92.4	50-130	NA	NA	
Endrin Aldehyde	2.37	0.25	0.040	ug/L	2.53	ND	93.8	50-130	NA	NA	
Endrin Ketone	2.45	0.25	0.019	ug/L	2.53	ND	96.9	50-130	NA	NA	
gamma-BHC	2.27	0.25	0.020	ug/L	2.53	ND	89.7	50-130	NA	NA	
gamma-Chlordane	2.14	0.25	0.042	ug/L	2.53	ND	84.8	50-130	NA	NA	
Heptachlor	2.17	0.25	0.018	ug/L	2.53	ND	85.9	50-130	NA	NA	
Heptachlor Epoxide	2.28	0.25	0.038	ug/L	2.53	ND	90.1	50-130	NA	NA	
Methoxychlor	2.54	0.25	0.026	ug/L	2.53	ND	101	50-130	NA	NA	
Toxaphene	<1.0	5.0	1.0	ug/L	NA	ND	NA	50-130	NA	NA	
Surrogate: DBC	*1.88*			ug/L	*2.53*	*NA*	*74.4*	*40-130*			
Surrogate: TCMX	*1.50*			ug/L	*2.53*	*NA*	*59.5*	*40-120*			

Matrix Spike Duplicate (B9J0048-MSD1)

Source: 0905429-01 Prepared: 10/02/09 Analyzed: 10/06/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.40	0.25	0.016	ug/L	2.53	ND	95.1	50-130	7.72	25	
4,4'-DDE	2.27	0.25	0.016	ug/L	2.53	ND	89.9	50-130	10.2	25	
4,4'-DDT	2.43	0.25	0.020	ug/L	2.53	ND	96.2	50-130	5.21	25	
Aldrin	2.20	0.25	0.018	ug/L	2.53	ND	87.2	50-130	9.26	25	
alpha-BHC	2.35	0.25	0.021	ug/L	2.53	ND	92.9	50-130	7.12	25	
alpha-Chlordane	2.32	0.25	0.016	ug/L	2.53	ND	91.8	50-130	8.81	25	
beta-BHC	2.47	0.25	0.016	ug/L	2.53	ND	97.9	50-130	5.06	25	
delta-BHC	2.45	0.25	0.014	ug/L	2.53	ND	97.2	50-130	4.36	25	
Dieldrin	2.39	0.25	0.024	ug/L	2.53	ND	94.8	50-130	6.86	25	
Endosulfan I	2.37	0.25	0.021	ug/L	2.53	ND	93.8	50-130	5.82	25	
Endosulfan II	2.42	0.25	0.019	ug/L	2.53	ND	95.8	50-130	6.05	25	
Endosulfan Sulfate	2.46	0.25	0.019	ug/L	2.53	ND	97.6	50-130	3.88	25	
Endrin	2.46	0.25	0.020	ug/L	2.53	ND	97.3	50-130	5.21	25	
Endrin Aldehyde	2.55	0.25	0.040	ug/L	2.53	ND	101	50-130	7.32	25	
Endrin Ketone	2.50	0.25	0.019	ug/L	2.53	ND	99.0	50-130	2.10	25	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905428
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9J0048 - EPA 3510C

Matrix Spike Duplicate (B9J0048-MSD1) **Source: 0905429-01** Prepared: 10/02/09 Analyzed: 10/06/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
gamma-BHC	2.41	0.25	0.020	ug/L	2.53	ND	95.6	50-130	6.37	25	
gamma-Chlordane	2.30	0.25	0.042	ug/L	2.53	ND	90.9	50-130	6.96	25	
Heptachlor	2.34	0.25	0.018	ug/L	2.53	ND	92.6	50-130	7.56	25	
Heptachlor Epoxide	2.44	0.25	0.038	ug/L	2.53	ND	96.5	50-130	6.82	25	
Methoxychlor	2.65	0.25	0.026	ug/L	2.53	ND	105	50-130	4.23	25	
Surrogate: DBC	*1.99*			ug/L	*2.53*	*NA*	*78.7*	*40-130*			
Surrogate: TCMX	*1.62*			ug/L	*2.53*	*NA*	*64.0*	*40-120*			

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9J0033 - EPA 3510C

Method Blank (B9J0033-BLK1)

Prepared: 10/02/09 Analyzed: 10/05/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	<0.25	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Alachlor	<0.19	0.50	0.19	ug/L	NA	NA	NA	NA	NA	NA	
Atrazine	<0.24	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	<0.34	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Cyanazine	<0.48	0.50	0.48	ug/L	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	<0.26	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
Desethylatrazine	<0.29	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Dimethenamid	<0.24	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
EPTC	<0.22	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Ethalfluralin	<0.47	0.50	0.47	ug/L	NA	NA	NA	NA	NA	NA	
Fonofos	<0.30	0.50	0.30	ug/L	NA	NA	NA	NA	NA	NA	
Metolachlor	<0.28	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
Metribuzin	<0.35	0.50	0.35	ug/L	NA	NA	NA	NA	NA	NA	
Pendimethalin	<0.25	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Phorate	<0.58	1.0	0.58	ug/L	NA	NA	NA	NA	NA	NA	
Prometon	<0.29	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Propachlor	<0.14	0.50	0.14	ug/L	NA	NA	NA	NA	NA	NA	
Propazine	<0.21	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Simazine	<0.32	0.50	0.32	ug/L	NA	NA	NA	NA	NA	NA	
Terbufos	<0.54	1.0	0.54	ug/L	NA	NA	NA	NA	NA	NA	
Triallate	<0.34	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Trifluralin	<0.21	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: Atrazine-d5	*10.9*			ug/L	*10.0*	*NA*	*109*	*50-120*			
Surrogate: Diazinon-d10	*10.6*			ug/L	*10.0*	*NA*	*106*	*50-120*			

Laboratory Control Sample (B9J0033-BS1)

Prepared: 10/02/09 Analyzed: 10/05/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	10.6	0.50	0.25	ug/L	10.0	NA	106	65-115	NA	NA	
Alachlor	10.7	0.50	0.19	ug/L	10.0	NA	107	65-115	NA	NA	
Atrazine	10.6	0.50	0.24	ug/L	10.0	NA	106	65-115	NA	NA	
Chlorpyrifos	9.72	0.50	0.34	ug/L	10.0	NA	97.2	65-115	NA	NA	
Cyanazine	9.77	0.50	0.48	ug/L	10.0	NA	97.7	65-115	NA	NA	
Deisopropylatrazine	9.09	0.50	0.26	ug/L	10.0	NA	90.9	65-115	NA	NA	
Desethylatrazine	11.2	0.50	0.29	ug/L	10.0	NA	112	65-115	NA	NA	
Dimethenamid	10.0	0.50	0.24	ug/L	10.0	NA	100	65-115	NA	NA	
EPTC	8.50	0.50	0.22	ug/L	10.0	NA	85.0	50-110	NA	NA	
Ethalfluralin	8.60	0.50	0.47	ug/L	10.0	NA	86.0	65-115	NA	NA	
Fonofos	9.96	0.50	0.30	ug/L	10.0	NA	99.6	55-115	NA	NA	
Metolachlor	10.5	0.50	0.28	ug/L	10.0	NA	105	70-120	NA	NA	
Metribuzin	9.64	0.50	0.35	ug/L	10.0	NA	96.4	70-120	NA	NA	
Pendimethalin	9.65	0.50	0.25	ug/L	10.0	NA	96.5	65-115	NA	NA	
Phorate	9.00	1.0	0.58	ug/L	10.0	NA	90.0	30-100	NA	NA	

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9J0033 - EPA 3510C

Laboratory Control Sample (B9J0033-BS1)

Prepared: 10/02/09 Analyzed: 10/05/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	10.5	0.50	0.29	ug/L	10.0	NA	105	70-120	NA	NA	
Propachlor	9.55	0.50	0.14	ug/L	10.0	NA	95.5	65-115	NA	NA	
Propazine	10.2	0.50	0.21	ug/L	10.0	NA	102	65-115	NA	NA	
Simazine	12.3	0.50	0.32	ug/L	10.0	NA	123	65-115	NA	NA	
Terbufos	8.78	1.0	0.54	ug/L	10.0	NA	87.8	30-100	NA	NA	
Triallate	9.40	0.50	0.34	ug/L	10.0	NA	94.0	65-115	NA	NA	
Trifluralin	8.39	0.50	0.21	ug/L	10.0	NA	83.9	65-115	NA	NA	
Surrogate: Atrazine-d5	*10.8*			ug/L	*10.0*	*NA*	*108*	*50-120*			
Surrogate: Diazinon-d10	*9.58*			ug/L	*10.0*	*NA*	*95.8*	*50-120*			

Laboratory Control Sample Duplicate (B9J0033-BSD1)

Prepared: 10/02/09 Analyzed: 10/05/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	9.73	0.50	0.25	ug/L	10.0	NA	97.3	65-115	8.09	25	
Alachlor	10.2	0.50	0.19	ug/L	10.0	NA	102	65-115	4.11	25	
Atrazine	10.3	0.50	0.24	ug/L	10.0	NA	103	65-115	3.06	25	
Chlorpyrifos	9.37	0.50	0.34	ug/L	10.0	NA	93.7	65-115	3.67	25	
Cyanazine	9.48	0.50	0.48	ug/L	10.0	NA	94.8	65-115	3.01	25	
Deisopropylatrazine	8.62	0.50	0.26	ug/L	10.0	NA	86.2	65-115	5.31	25	
Desethylatrazine	10.4	0.50	0.29	ug/L	10.0	NA	104	65-115	7.52	25	
Dimethenamid	9.65	0.50	0.24	ug/L	10.0	NA	96.5	65-115	3.76	25	
EPTC	8.73	0.50	0.22	ug/L	10.0	NA	87.3	50-110	2.67	30	
Ethalfluralin	8.89	0.50	0.47	ug/L	10.0	NA	88.9	65-115	3.32	30	
Fonofos	9.90	0.50	0.30	ug/L	10.0	NA	99.0	55-115	0.604	30	
Metolachlor	10.0	0.50	0.28	ug/L	10.0	NA	100	70-120	4.28	25	
Metribuzin	9.22	0.50	0.35	ug/L	10.0	NA	92.2	70-120	4.45	25	
Pendimethalin	9.32	0.50	0.25	ug/L	10.0	NA	93.2	65-115	3.48	25	
Phorate	9.38	1.0	0.58	ug/L	10.0	NA	93.8	30-100	4.13	30	
Prometon	10.3	0.50	0.29	ug/L	10.0	NA	103	70-120	1.92	30	
Propachlor	9.43	0.50	0.14	ug/L	10.0	NA	94.3	65-115	1.26	30	
Propazine	10.3	0.50	0.21	ug/L	10.0	NA	103	65-115	1.17	25	
Simazine	12.3	0.50	0.32	ug/L	10.0	NA	123	65-115	0.244	25	
Terbufos	8.70	1.0	0.54	ug/L	10.0	NA	87.0	30-100	0.915	30	
Triallate	9.05	0.50	0.34	ug/L	10.0	NA	90.5	65-115	3.79	25	
Trifluralin	7.95	0.50	0.21	ug/L	10.0	NA	79.5	65-115	5.39	25	
Surrogate: Atrazine-d5	*10.2*			ug/L	*10.0*	*NA*	*102*	*50-120*			
Surrogate: Diazinon-d10	*9.50*			ug/L	*10.0*	*NA*	*95.0*	*50-120*			

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9J0033 - EPA 3510C

Matrix Spike (B9J0033-MS1)

Source: 0905428-02 Prepared: 10/02/09 Analyzed: 10/05/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	10.2	0.50	0.25	ug/L	10.1	ND	100	65-115	NA	NA	
Alachlor	10.8	0.50	0.19	ug/L	10.1	ND	107	65-115	NA	NA	
Atrazine	10.6	0.50	0.24	ug/L	10.1	ND	105	65-115	NA	NA	
Chlorpyrifos	9.61	0.50	0.34	ug/L	10.1	ND	95.1	60-115	NA	NA	
Cyanazine	9.60	0.50	0.48	ug/L	10.1	ND	95.0	65-120	NA	NA	
Deisopropylatrazine	8.27	0.50	0.26	ug/L	10.1	ND	81.9	65-115	NA	NA	
Desethylatrazine	10.5	0.50	0.29	ug/L	10.1	ND	104	65-115	NA	NA	
Dimethenamid	10.1	0.50	0.24	ug/L	10.1	ND	99.6	65-120	NA	NA	
EPTC	10.3	0.50	0.22	ug/L	10.1	ND	101	50-110	NA	NA	
Ethalfluralin	8.40	0.50	0.47	ug/L	10.1	ND	83.2	65-115	NA	NA	
Fonofos	10.3	0.50	0.30	ug/L	10.1	ND	102	55-115	NA	NA	
Metolachlor	10.4	0.50	0.28	ug/L	10.1	ND	103	65-120	NA	NA	
Metribuzin	9.98	0.50	0.35	ug/L	10.1	ND	98.8	65-120	NA	NA	
Pendimethalin	9.65	0.50	0.25	ug/L	10.1	ND	95.5	60-115	NA	NA	
Phorate	10.0	1.0	0.58	ug/L	10.1	ND	99.2	30-100	NA	NA	
Prometon	10.2	0.50	0.29	ug/L	10.1	ND	101	70-120	NA	NA	
Propachlor	10.1	0.50	0.14	ug/L	10.1	ND	100	65-115	NA	NA	
Propazine	9.87	0.50	0.21	ug/L	10.1	ND	97.7	65-115	NA	NA	
Simazine	11.3	0.50	0.32	ug/L	10.1	ND	112	60-115	NA	NA	
Terbufos	9.71	1.0	0.54	ug/L	10.1	ND	96.1	30-100	NA	NA	
Triallate	9.57	0.50	0.34	ug/L	10.1	ND	94.7	60-115	NA	NA	
Trifluralin	8.12	0.50	0.21	ug/L	10.1	ND	80.4	65-115	NA	NA	
Surrogate: Atrazine-d5	*10.3*			ug/L	*10.1*	*NA*	*102*	*50-120*			
Surrogate: Diazinon-d10	*10.3*			ug/L	*10.1*	*NA*	*102*	*50-120*			

Matrix Spike Duplicate (B9J0033-MSD1)

Source: 0905428-02 Prepared: 10/02/09 Analyzed: 10/05/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	10.6	0.50	0.25	ug/L	10.1	ND	105	65-115	4.28	30	
Alachlor	10.9	0.50	0.19	ug/L	10.1	ND	108	65-115	1.02	30	
Atrazine	10.6	0.50	0.24	ug/L	10.1	ND	105	65-115	0.572	30	
Chlorpyrifos	9.68	0.50	0.34	ug/L	10.1	ND	95.8	60-115	0.733	30	
Cyanazine	9.04	0.50	0.48	ug/L	10.1	ND	89.5	65-120	5.96	30	
Deisopropylatrazine	8.47	0.50	0.26	ug/L	10.1	ND	83.9	65-115	2.41	30	
Desethylatrazine	10.7	0.50	0.29	ug/L	10.1	ND	106	65-115	1.24	30	
Dimethenamid	10.5	0.50	0.24	ug/L	10.1	ND	104	65-120	4.71	30	
EPTC	9.57	0.50	0.22	ug/L	10.1	ND	94.7	50-110	6.93	30	
Ethalfluralin	9.91	0.50	0.47	ug/L	10.1	ND	98.1	65-115	16.4	30	
Fonofos	10.5	0.50	0.30	ug/L	10.1	ND	104	55-115	2.14	30	
Metolachlor	10.7	0.50	0.28	ug/L	10.1	ND	106	65-120	2.49	30	
Metribuzin	9.60	0.50	0.35	ug/L	10.1	ND	95.0	65-120	3.92	30	
Pendimethalin	9.56	0.50	0.25	ug/L	10.1	ND	94.6	60-115	0.947	30	
Phorate	10.2	1.0	0.58	ug/L	10.1	ND	101	30-100	1.50	30	

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Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9J0033 - EPA 3510C

Matrix Spike Duplicate (B9J0033-MSD1) **Source: 0905428-02** Prepared: 10/02/09 Analyzed: 10/05/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	10.6	0.50	0.29	ug/L	10.1	ND	105	70-120	3.88	30	
Propachlor	10.4	0.50	0.14	ug/L	10.1	ND	103	65-115	2.26	30	
Propazine	10.5	0.50	0.21	ug/L	10.1	ND	104	65-115	6.53	30	
Simazine	12.4	0.50	0.32	ug/L	10.1	ND	123	60-115	9.09	30	
Terbufos	9.58	1.0	0.54	ug/L	10.1	ND	94.8	30-100	1.36	30	
Triallate	9.90	0.50	0.34	ug/L	10.1	ND	98.0	60-115	3.43	30	
Trifluralin	8.53	0.50	0.21	ug/L	10.1	ND	84.4	65-115	4.85	30	
Surrogate: Atrazine-d5	*10.5*			ug/L	*10.1*	*NA*	*104*	*50-120*			
Surrogate: Diazinon-d10	*10.2*			ug/L	*10.1*	*NA*	*101*	*50-120*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905428
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9J0038 - EPA 3510C

Method Blank (B9J0038-BLK1)

Prepared: 10/02/09 Analyzed: 10/07/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	<0.50	0.50	0.31	ug/L	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	<0.50	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D	<0.50	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D.B.	<0.50	0.50	0.15	ug/L	NA	NA	NA	NA	NA	NA	
Bentazon	<0.50	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Dicamba	<0.50	0.50	0.38	ug/L	NA	NA	NA	NA	NA	NA	
Dinoseb	<0.50	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
M.C.P.A.	<0.30	0.30	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	<0.50	0.50	0.39	ug/L	NA	NA	NA	NA	NA	NA	
Picloram	<0.50	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Triclopyr	<0.50	0.50	0.41	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	*3.36*			ug/L	*5.00*	*NA*	*67.2*	*65-130*			

Laboratory Control Sample (B9J0038-BS1)

Prepared: 10/02/09 Analyzed: 10/07/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	3.65	0.50	0.31	ug/L	5.00	NA	73.0	70-130	NA	NA	
2,4,5-T.P.	3.66	0.50	0.28	ug/L	5.00	NA	73.2	70-130	NA	NA	
2,4-D	3.59	0.50	0.26	ug/L	5.00	NA	71.8	70-130	NA	NA	
2,4-D.B.	4.00	0.50	0.15	ug/L	5.00	NA	80.0	75-140	NA	NA	
Bentazon	3.85	0.50	0.22	ug/L	5.00	NA	77.0	75-135	NA	NA	
Dicamba	3.83	0.50	0.38	ug/L	5.00	NA	76.6	65-130	NA	NA	
Dinoseb	2.69	0.50	0.34	ug/L	5.00	NA	53.8	40-125	NA	NA	
M.C.P.A.	3.87	0.30	0.29	ug/L	5.00	NA	77.4	70-130	NA	NA	
Pentachlorophenol	4.05	0.50	0.39	ug/L	5.00	NA	81.0	70-120	NA	NA	
Picloram	3.30	0.50	0.25	ug/L	5.00	NA	66.0	60-125	NA	NA	
Triclopyr	4.22	0.50	0.41	ug/L	5.00	NA	84.4	75-125	NA	NA	
Surrogate: D.C.A.A.	*3.96*			ug/L	*5.00*	*NA*	*79.2*	*65-130*			

Laboratory Control Sample Duplicate (B9J0038-BSD1)

Prepared: 10/02/09 Analyzed: 10/07/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.54	0.50	0.31	ug/L	5.00	NA	90.8	70-130	21.7	20	
2,4,5-T.P.	4.14	0.50	0.28	ug/L	5.00	NA	82.8	70-130	12.3	20	
2,4-D	3.91	0.50	0.26	ug/L	5.00	NA	78.2	70-130	8.53	20	
2,4-D.B.	4.45	0.50	0.15	ug/L	5.00	NA	89.0	75-140	10.7	20	
Bentazon	4.18	0.50	0.22	ug/L	5.00	NA	83.6	75-135	8.22	20	
Dicamba	4.02	0.50	0.38	ug/L	5.00	NA	80.4	65-130	4.84	20	
Dinoseb	2.76	0.50	0.34	ug/L	5.00	NA	55.2	40-125	2.57	20	
M.C.P.A.	4.27	0.30	0.29	ug/L	5.00	NA	85.4	70-130	9.83	20	
Pentachlorophenol	3.67	0.50	0.39	ug/L	5.00	NA	73.4	70-120	9.84	20	
Picloram	3.64	0.50	0.25	ug/L	5.00	NA	72.8	60-125	9.80	20	
Triclopyr	4.34	0.50	0.41	ug/L	5.00	NA	86.8	75-125	2.80	20	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905428
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9J0038 - EPA 3510C

Laboratory Control Sample Duplicate (B9J0038-BSD1)

Prepared: 10/02/09 Analyzed: 10/07/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: D.C.A.A.	*4.22*			ug/L	*5.00*	*NA*	*84.4*	*65-130*			

Matrix Spike (B9J0038-MS1)

Source: 0905466-01 Prepared: 10/02/09 Analyzed: 10/07/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	3.98	0.50	0.31	ug/L	5.05	ND	78.8	70-140	NA	NA	
2,4,5-T.P.	4.22	0.50	0.28	ug/L	5.05	ND	83.6	70-135	NA	NA	
2,4-D	4.03	0.50	0.26	ug/L	5.05	ND	79.8	70-140	NA	NA	
2,4-D.B.	4.59	0.50	0.15	ug/L	5.05	ND	90.8	75-140	NA	NA	
Bentazon	4.08	0.50	0.22	ug/L	5.05	ND	80.8	70-140	NA	NA	
Dicamba	3.88	0.50	0.38	ug/L	5.05	ND	76.8	65-140	NA	NA	
Dinoseb	3.15	0.50	0.34	ug/L	5.05	ND	62.4	40-130	NA	NA	
M.C.P.A.	3.99	0.30	0.29	ug/L	5.05	ND	79.0	60-140	NA	NA	
Pentachlorophenol	3.74	0.50	0.39	ug/L	5.05	ND	74.0	70-125	NA	NA	
Picloram	3.39	0.50	0.25	ug/L	5.05	ND	67.2	45-140	NA	NA	
Triclopyr	4.35	0.50	0.41	ug/L	5.05	ND	86.2	75-125	NA	NA	
Surrogate: D.C.A.A.	*4.35*			ug/L	*5.05*	*NA*	*86.2*	*65-130*			

Matrix Spike Duplicate (B9J0038-MSD1)

Source: 0905466-01 Prepared: 10/02/09 Analyzed: 10/07/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.59	0.50	0.31	ug/L	5.05	ND	90.8	70-140	14.2	25	
2,4,5-T.P.	4.44	0.50	0.28	ug/L	5.05	ND	88.0	70-135	5.13	25	
2,4-D	4.38	0.50	0.26	ug/L	5.05	ND	86.8	70-140	8.40	25	
2,4-D.B.	4.84	0.50	0.15	ug/L	5.05	ND	95.8	75-140	5.36	25	
Bentazon	4.32	0.50	0.22	ug/L	5.05	ND	85.6	70-140	5.77	25	
Dicamba	4.19	0.50	0.38	ug/L	5.05	ND	83.0	65-140	7.76	25	
Dinoseb	3.27	0.50	0.34	ug/L	5.05	ND	64.8	40-130	3.77	25	
M.C.P.A.	3.96	0.30	0.29	ug/L	5.05	ND	78.4	60-140	0.762	25	
Pentachlorophenol	3.74	0.50	0.39	ug/L	5.05	ND	74.0	70-125	0.00	25	
Picloram	3.42	0.50	0.25	ug/L	5.05	ND	67.8	45-140	0.889	25	
Triclopyr	4.28	0.50	0.41	ug/L	5.05	ND	84.8	75-125	1.64	25	
Surrogate: D.C.A.A.	*4.62*			ug/L	*5.05*	*NA*	*91.4*	*65-130*			

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905428
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

0905428

Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number: 23/19-0B05.51 R1300

Project Name

№ 28042

COC _____ of _____

Project Manager: JME

Project Contact: KJN

Sampled by: KSJ

Laboratory: BRAUN

Remarks: TABLE 1

Number of Containers/Preservative — Water: Volatile Organics (Pres.)*1; Semivolatile Organics *2; Dissolved Metals (HNO_3); Total Metals (HNO_3); General (Unpreserved)*3; Cyanide (NaOH); Nutrients (H_2SO_4)*4; Oil and Grease (H_2SO_4); Sulfide (Zn Acetate); Methane; Bacteria ($Na_2S_2O_3$); DRO (HCl). Soil: VOCs (2-oz tared MeOH)*1; GRO, BTEX (2-oz tared MeOH)*1; DRO (2-oz tared) - 25 grams; Metals (2-oz unpreserved); SVOCs (2 or 4-oz unpres.)*2; % Moisture (plastic vial, unpres.); Total No. Of Containers

Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: OC	Volatile Organics (Pres.)*1	Semivolatile Organics *2	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	General (Unpreserved)*3	Cyanide (NaOH)	Nutrients (H_2SO_4)*4	Oil and Grease (H_2SO_4)	Sulfide (Zn Acetate)	Methane	Bacteria ($Na_2S_2O_3$)	DRO (HCl)	VOCs (2-oz tared MeOH)*1	GRO, BTEX (2-oz tared MeOH)*1	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.)*2	% Moisture (plastic vial, unpres.)	Total No. Of Containers	Remarks
1. WSW-207605	9/29/09	1155	✓		✓				6					1													7	Ag 1+2, OC Pest, Nitrogen
2. WSW-208402	↓	1320	✓		✓				6																		6	Ag list 1
3.																											
4.																											
5.																											
6.																											
7.																											
8.																											
9.																											
10.																											
11.																											
12.																											

#1 #2 #3
HO 1.7°C 0.8°C 1.9

Common Parameter/Container - Preservation Key
*1 - Volatile Organics = BTEX, GRO, TPH, Full List
*2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
*3 - General = pH, Chloride, Flouride, Alkalinity, TSS, TDS, TS, Sulfate
*4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice? Y N	Date	Time	Received by:	Date	Time
	Y	9/30/09			9/30/09	0820
Relinquished By:	On Ice? Y N	Date	Time	Received by:	Date	Time

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☒ Sampler ☐ Other _____

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

H:\RLG\STDFORMS\Chain Of Custody Form RLG Rev. 07/01/05

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Braun Intertec Corporation
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Minneapolis, MN 55438

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Web: braunintertec.com

Ms. Kelly Neppl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

October 13, 2009

Work Order #: 0905466

RE: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300

Dear Kelly Neppl:

Braun Intertec Corporation received samples for the project identified above on September 30, 2009. Analytical results are summarized in the following report.

All routine quality assurance procedures were followed, unless otherwise noted.

Analytical results are reported on an "as received" basis unless otherwise noted. Where possible, the samples will be retained by the laboratory for 14 days following issuance of the initial final report. The samples will be disposed of or returned at that time. Arrangements can be made for extended storage by contacting me at this time.

We appreciate your decision to use Braun Intertec Corporation for this project. We are committed to being your vendor of choice to meet your analytical chemistry needs.

If you have any questions please contact me at the above phone number.

Sincerely,

Steven J. Albrecht

Steven J. Albrecht
Associate Principal

Certification/Accreditation Numbers

Minnesota Department of Health: 027-053-117 Wisconsin DNR: 999462640

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905466
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

How to Use this Report

In order to get the most out of the information presented in this report please refer to the following explanations as to how the data in this report is tied together and how some of the terms are defined.

Qualifiers and Abbreviations are defined in the following section. You will find these codes used throughout the report in headers and in note sections to designate a unique fact about the data to which they are associated.

The Case Narrative gives a "story" about the analysis and results. Here you will find greater elaboration on relevant qualifiers as well as an explanation of anything of particular note in the data. This is a discussion of the data in terms of quality control and chemistry. It is a summary of any deviations that could affect the usefulness of the data. This is not an interpretation as to how this information relates to regulatory compliance, toxicity, or hazardous characterization. These items are beyond the scope of this report.

The Sample Summary provides detail on sample receipt. The association between Client sample ID and the Laboratory sample ID are defined here; this information is valuable to have when discussing results with your project manager. Sample collection and receipt dates and times are provided here as well. General notes regarding the work order are also documented here. This is a mini "case narrative" that describes any anomalies regarding the condition of the samples upon arrival to the laboratory or special circumstances regarding the work order.

The Conditions Upon Receipt summarizes the results of specific checks that have been performed at sample receipt. This includes items like custody documentation, sample condition, and temperature at receipt. Each "cooler" is identified and the conditions associated with that cooler are documented. A "cooler" is defined as the larger container used to transport the individual samples. In most cases this is a standard recreational cooler but it can be a box, plastic bag, or other container.

The laboratory results are summarized in the following sections. Data is broken down into major categories for convenience. An example of such a category would be "Total Petroleum Hydrocarbons." Here you would find data that references the testing of such parameters as diesel range organics and gasoline range organics. Other categories are similarly mapped. The batch number is associated with each sample. This is important to evaluate Quality Control (QC) data. Surrogate results samples are provided with each sample. Laboratory control limits are provided for comparison (see below). The reference method is also identified. If a method is denoted with an "M" (e.g. EPA 1234(M)) this means that it has been modified. An explanation of the modification will be found in the Case Narrative. A result is given with appropriate units. If a soil sample is dry-weight corrected then the word "dry" will appear next to the units. If the word "dry" does not appear then the result is "as received."

The Method Reporting Limit (MRL) and Method Detection Limit (MDL) are provided. It is important to understand these terms. The MRL is a level that has been empirically verified to provide reliable quantitation of results. Results that are equal to or greater than this value will show up in bold. They are considered "hits." The MDL is a statistically derived number that indicates an estimated concentration at which an analyte can be detected above the noise level. If a result is less than the MRL but greater than the MDL then it is considered an estimate. Such a result is reported with a "J" flag denoting that it has been detected but that the result is an estimate.

In this specific report format, the majority of the analyses are reported without estimated concentrations less than the MRL. For these analyses, if a result is less than the MRL, the result is given as less than the MRL (e.g. if the MRL = 10 then a less than result would be given as "<10"). However, for the Organochlorine Pesticides in water and MDA List 1 Pesticides in water analyses, if a result is less than the MRL but greater than the MDL, then an estimated result is reported with a "J" flag. If a result for either of these two analyses is less than the MDL, then the result is given as less than the MDL.

The Quality Control (QC) samples are documented in the following section. Here you will find the preparation batches associated with each sample from the results section. The sample preparation method is also defined here. Accuracy is represented here in terms of a percent recovery as compared to a known value. Precision is represented as a relative percent difference between two duplicate sample aliquots. The laboratory control limits are provided as a means to evaluate the quality control data. If the result falls outside the laboratory control limits this simply means that it is outside what is typical for the laboratory and is noted accordingly. This does not mean that the data is invalid. Laboratory control limits are generally tighter than most program limits. This is a very important distinction. How the data is ultimately used determines its validity. Program requirements are defined in the Quality Assurance Project Plan (QAPP) governing the project. If your project manager is aware of your specific program requirements then a note will be made in the case narrative if the data fails to meet any of these requirements.

The last section contains copies of important documents and/or instrument printouts relevant to the report. This includes the chain of custody. It also may include items like chromatograms or spectra.

Please note that this report is paginated and must be reproduced in its entirety.

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905466
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Qualifiers and Abbreviations

gp	The relative percent difference (RPD) for the laboratory control sample and laboratory control sample duplicate is outside of laboratory control limits.
COC	Chain of Custody
dry	Sample results reported on a dry weight basis
MDL	Method Detection Limit
MRL	Method Reporting Limit
NA	Not Applicable
ND	Analyte NOT DETECTED
NR	Not Reported
%Rec	Percent Recovery
RPD	Relative Percent Difference
VOC	Volatile Organic Compound

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WSW 207607	0905466-01	Water	09/30/09 14:00	09/30/09 15:50
WSW 208405	0905466-02	Water	09/30/09 15:10	09/30/09 15:50
FB-1	0905466-03	Water	09/30/09 14:20	09/30/09 15:50

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Conditions Upon Receipt

Cooler: Cooler 1

Temperature:	2.0 °C	**COC Included:**	Yes	**Custody Seals Used:**	No
Temperature Blank:	Yes	**COC Complete:**	Yes	**Custody Seals Intact:**	NA
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	Yes
Preservation Confirmed:	No	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

Cooler: Cooler 2

Temperature:	3.4 °C	**COC Included:**	Yes	**Custody Seals Used:**	No
Temperature Blank:	Yes	**COC Complete:**	Yes	**Custody Seals Intact:**	NA
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	Yes
Preservation Confirmed:	No	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

Cooler: Cooler 3

Temperature:	3.0 °C	**COC Included:**	Yes	**Custody Seals Used:**	No
Temperature Blank:	Yes	**COC Complete:**	Yes	**Custody Seals Intact:**	NA
Received on Ice:	Yes	**COC & Labels Agree:**	Yes	**Hand Delivered by Client:**	Yes
Preservation Confirmed:	No	**Sufficient Sample Provided:**	Yes	**Headspace Present (VOC):**	No

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4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

WSW 207607

0905466-01 (Water)

9/30/09 14:00

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.50	0.50	0.31	ug/L	B9J0038	10/2/09 11:14	10/7/09 18:16	EPA 8270C	gp
2,4,5-T.P.	<0.50	0.50	0.28	ug/L	B9J0038	10/2/09 11:14	10/7/09 18:16	EPA 8270C	
2,4-D	<0.50	0.50	0.26	ug/L	B9J0038	10/2/09 11:14	10/7/09 18:16	EPA 8270C	
2,4-D.B.	<0.50	0.50	0.15	ug/L	B9J0038	10/2/09 11:14	10/7/09 18:16	EPA 8270C	
Bentazon	<0.50	0.50	0.22	ug/L	B9J0038	10/2/09 11:14	10/7/09 18:16	EPA 8270C	
Dicamba	<0.50	0.50	0.38	ug/L	B9J0038	10/2/09 11:14	10/7/09 18:16	EPA 8270C	
Dinoseb	<0.50	0.50	0.34	ug/L	B9J0038	10/2/09 11:14	10/7/09 18:16	EPA 8270C	
M.C.P.A.	<0.30	0.30	0.29	ug/L	B9J0038	10/2/09 11:14	10/7/09 18:16	EPA 8270C	
Pentachlorophenol	<0.50	0.50	0.39	ug/L	B9J0038	10/2/09 11:14	10/7/09 18:16	EPA 8270C	
Picloram	<0.50	0.50	0.25	ug/L	B9J0038	10/2/09 11:14	10/7/09 18:16	EPA 8270C	
Triclopyr	<0.50	0.50	0.41	ug/L	B9J0038	10/2/09 11:14	10/7/09 18:16	EPA 8270C	
Surr: D.C.A.A.	*92.6 %*	*Limits: 65-130%*			*B9J0038*	*10/2/09 11:14*	*10/7/09 18:16*	*EPA 8270C*	

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11001 Hampshire Ave. S.
Minneapolis, MN 55438
952.995.2000 Phone
952.995.2020 Fax

Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905466
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

WSW 208405

0905466-02 (Water)

9/30/09 15:10

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.50	0.50	0.31	ug/L	B9J0038	10/2/09 11:14	10/7/09 18:41	EPA 8270C	gp
2,4,5-T.P.	<0.50	0.50	0.28	ug/L	B9J0038	10/2/09 11:14	10/7/09 18:41	EPA 8270C	
2,4-D	<0.50	0.50	0.26	ug/L	B9J0038	10/2/09 11:14	10/7/09 18:41	EPA 8270C	
2,4-D.B.	<0.50	0.50	0.15	ug/L	B9J0038	10/2/09 11:14	10/7/09 18:41	EPA 8270C	
Bentazon	<0.50	0.50	0.22	ug/L	B9J0038	10/2/09 11:14	10/7/09 18:41	EPA 8270C	
Dicamba	<0.50	0.50	0.38	ug/L	B9J0038	10/2/09 11:14	10/7/09 18:41	EPA 8270C	
Dinoseb	<0.50	0.50	0.34	ug/L	B9J0038	10/2/09 11:14	10/7/09 18:41	EPA 8270C	
M.C.P.A.	<0.30	0.30	0.29	ug/L	B9J0038	10/2/09 11:14	10/7/09 18:41	EPA 8270C	
Pentachlorophenol	<0.50	0.50	0.39	ug/L	B9J0038	10/2/09 11:14	10/7/09 18:41	EPA 8270C	
Picloram	<0.50	0.50	0.25	ug/L	B9J0038	10/2/09 11:14	10/7/09 18:41	EPA 8270C	
Triclopyr	<0.50	0.50	0.41	ug/L	B9J0038	10/2/09 11:14	10/7/09 18:41	EPA 8270C	
Surr: D.C.A.A.	*92.8 %*	*Limits: 65-130%*			*B9J0038*	*10/2/09 11:14*	*10/7/09 18:41*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905466
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

FB-1

0905466-03 (Water)

9/30/09 14:20

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.50	0.50	0.31	ug/L	B9J0038	10/2/09 11:14	10/7/09 19:06	EPA 8270C	gp
2,4,5-T.P.	<0.50	0.50	0.28	ug/L	B9J0038	10/2/09 11:14	10/7/09 19:06	EPA 8270C	
2,4-D	<0.50	0.50	0.26	ug/L	B9J0038	10/2/09 11:14	10/7/09 19:06	EPA 8270C	
2,4-D.B.	<0.50	0.50	0.15	ug/L	B9J0038	10/2/09 11:14	10/7/09 19:06	EPA 8270C	
Bentazon	<0.50	0.50	0.22	ug/L	B9J0038	10/2/09 11:14	10/7/09 19:06	EPA 8270C	
Dicamba	<0.50	0.50	0.38	ug/L	B9J0038	10/2/09 11:14	10/7/09 19:06	EPA 8270C	
Dinoseb	<0.50	0.50	0.34	ug/L	B9J0038	10/2/09 11:14	10/7/09 19:06	EPA 8270C	
M.C.P.A.	<0.30	0.30	0.29	ug/L	B9J0038	10/2/09 11:14	10/7/09 19:06	EPA 8270C	
Pentachlorophenol	<0.50	0.50	0.39	ug/L	B9J0038	10/2/09 11:14	10/7/09 19:06	EPA 8270C	
Picloram	<0.50	0.50	0.25	ug/L	B9J0038	10/2/09 11:14	10/7/09 19:06	EPA 8270C	
Triclopyr	<0.50	0.50	0.41	ug/L	B9J0038	10/2/09 11:14	10/7/09 19:06	EPA 8270C	
Surr: D.C.A.A.	*102 %*	*Limits: 65-130%*			*B9J0038*	*10/2/09 11:14*	*10/7/09 19:06*	*EPA 8270C*	

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905466
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9J0038 - EPA 3510C

Method Blank (B9J0038-BLK1)

Prepared: 10/02/09 Analyzed: 10/07/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	<0.50	0.50	0.31	ug/L	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	<0.50	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D	<0.50	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D.B.	<0.50	0.50	0.15	ug/L	NA	NA	NA	NA	NA	NA	
Bentazon	<0.50	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Dicamba	<0.50	0.50	0.38	ug/L	NA	NA	NA	NA	NA	NA	
Dinoseb	<0.50	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
M.C.P.A.	<0.30	0.30	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	<0.50	0.50	0.39	ug/L	NA	NA	NA	NA	NA	NA	
Picloram	<0.50	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Triclopyr	<0.50	0.50	0.41	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	*3.36*			ug/L	*5.00*	*NA*	*67.2*	*65-130*			

Laboratory Control Sample (B9J0038-BS1)

Prepared: 10/02/09 Analyzed: 10/07/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	3.65	0.50	0.31	ug/L	5.00	NA	73.0	70-130	NA	NA	
2,4,5-T.P.	3.66	0.50	0.28	ug/L	5.00	NA	73.2	70-130	NA	NA	
2,4-D	3.59	0.50	0.26	ug/L	5.00	NA	71.8	70-130	NA	NA	
2,4-D.B.	4.00	0.50	0.15	ug/L	5.00	NA	80.0	75-140	NA	NA	
Bentazon	3.85	0.50	0.22	ug/L	5.00	NA	77.0	75-135	NA	NA	
Dicamba	3.83	0.50	0.38	ug/L	5.00	NA	76.6	65-130	NA	NA	
Dinoseb	2.69	0.50	0.34	ug/L	5.00	NA	53.8	40-125	NA	NA	
M.C.P.A.	3.87	0.30	0.29	ug/L	5.00	NA	77.4	70-130	NA	NA	
Pentachlorophenol	4.05	0.50	0.39	ug/L	5.00	NA	81.0	70-120	NA	NA	
Picloram	3.30	0.50	0.25	ug/L	5.00	NA	66.0	60-125	NA	NA	
Triclopyr	4.22	0.50	0.41	ug/L	5.00	NA	84.4	75-125	NA	NA	
Surrogate: D.C.A.A.	*3.96*			ug/L	*5.00*	*NA*	*79.2*	*65-130*			

Laboratory Control Sample Duplicate (B9J0038-BSD1)

Prepared: 10/02/09 Analyzed: 10/07/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.54	0.50	0.31	ug/L	5.00	NA	90.8	70-130	21.7	20	
2,4,5-T.P.	4.14	0.50	0.28	ug/L	5.00	NA	82.8	70-130	12.3	20	
2,4-D	3.91	0.50	0.26	ug/L	5.00	NA	78.2	70-130	8.53	20	
2,4-D.B.	4.45	0.50	0.15	ug/L	5.00	NA	89.0	75-140	10.7	20	
Bentazon	4.18	0.50	0.22	ug/L	5.00	NA	83.6	75-135	8.22	20	
Dicamba	4.02	0.50	0.38	ug/L	5.00	NA	80.4	65-130	4.84	20	
Dinoseb	2.76	0.50	0.34	ug/L	5.00	NA	55.2	40-125	2.57	20	
M.C.P.A.	4.27	0.30	0.29	ug/L	5.00	NA	85.4	70-130	9.83	20	
Pentachlorophenol	3.67	0.50	0.39	ug/L	5.00	NA	73.4	70-120	9.84	20	
Picloram	3.64	0.50	0.25	ug/L	5.00	NA	72.8	60-125	9.80	20	

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BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905466
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9J0038 - EPA 3510C

Laboratory Control Sample Duplicate (B9J0038-BSD1)

Prepared: 10/02/09 Analyzed: 10/07/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Triclopyr	4.34	0.50	0.41	ug/L	5.00	NA	86.8	75-125	2.80	20	
Surrogate: D.C.A.A.	*4.22*			ug/L	*5.00*	*NA*	*84.4*	*65-130*			

Matrix Spike (B9J0038-MS1)

Source: 0905466-01 Prepared: 10/02/09 Analyzed: 10/07/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	3.98	0.50	0.31	ug/L	5.05	ND	78.8	70-140	NA	NA	
2,4,5-T.P.	4.22	0.50	0.28	ug/L	5.05	ND	83.6	70-135	NA	NA	
2,4-D	4.03	0.50	0.26	ug/L	5.05	ND	79.8	70-140	NA	NA	
2,4-D.B.	4.59	0.50	0.15	ug/L	5.05	ND	90.8	75-140	NA	NA	
Bentazon	4.08	0.50	0.22	ug/L	5.05	ND	80.8	70-140	NA	NA	
Dicamba	3.88	0.50	0.38	ug/L	5.05	ND	76.8	65-140	NA	NA	
Dinoseb	3.15	0.50	0.34	ug/L	5.05	ND	62.4	40-130	NA	NA	
M.C.P.A.	3.99	0.30	0.29	ug/L	5.05	ND	79.0	60-140	NA	NA	
Pentachlorophenol	3.74	0.50	0.39	ug/L	5.05	ND	74.0	70-125	NA	NA	
Picloram	3.39	0.50	0.25	ug/L	5.05	ND	67.2	45-140	NA	NA	
Triclopyr	4.35	0.50	0.41	ug/L	5.05	ND	86.2	75-125	NA	NA	
Surrogate: D.C.A.A.	*4.35*			ug/L	*5.05*	*NA*	*86.2*	*65-130*			

Matrix Spike Duplicate (B9J0038-MSD1)

Source: 0905466-01 Prepared: 10/02/09 Analyzed: 10/07/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.59	0.50	0.31	ug/L	5.05	ND	90.8	70-140	14.2	25	
2,4,5-T.P.	4.44	0.50	0.28	ug/L	5.05	ND	88.0	70-135	5.13	25	
2,4-D	4.38	0.50	0.26	ug/L	5.05	ND	86.8	70-140	8.40	25	
2,4-D.B.	4.84	0.50	0.15	ug/L	5.05	ND	95.8	75-140	5.36	25	
Bentazon	4.32	0.50	0.22	ug/L	5.05	ND	85.6	70-140	5.77	25	
Dicamba	4.19	0.50	0.38	ug/L	5.05	ND	83.0	65-140	7.76	25	
Dinoseb	3.27	0.50	0.34	ug/L	5.05	ND	64.8	40-130	3.77	25	
M.C.P.A.	3.96	0.30	0.29	ug/L	5.05	ND	78.4	60-140	0.762	25	
Pentachlorophenol	3.74	0.50	0.39	ug/L	5.05	ND	74.0	70-125	0.00	25	
Picloram	3.42	0.50	0.25	ug/L	5.05	ND	67.8	45-140	0.889	25	
Triclopyr	4.28	0.50	0.41	ug/L	5.05	ND	84.8	75-125	1.64	25	
Surrogate: D.C.A.A.	*4.62*			ug/L	*5.05*	*NA*	*91.4*	*65-130*			

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UMP018986

BRAUN INTERTEC

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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905466
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

BARR *Chain of Custody*

4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number: 23/19-0B05 SIRI 300

Project Name:

№ 28038

COC _____ of _____

Project Manager: JME

Project Contact: KJN

Sampled by: KSJ

Laboratory: BRAUN

Remarks: TABLE 1

Number of Containers/Preservative — Water: Volatile Organics (Pres.)*1; Semivolatile Organics *2; Dissolved Metals (HNO_3); Total Metals (HNO_3); General (Unpreserved)*3; Cyanide (NaOH); Nutrients (H_2SO_4)*4; Oil and Grease (H_2SO_4); Sulfide (Zn Acetate); Methane; Bacteria ($Na_2S_2O_3$); DRO (HCl). Soil: VOCs (2-oz tared MeOH)*1; GRO, BTEX (2-oz tared MeOH)*1; DRO (2-oz tared) - 25 grams; Metals (2-oz unpreserved); SVOCs (2 or 4-oz unpres.)*2; % Moisture (plastic vial, unpres.); Total No. Of Containers

Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Volatile Organics (Pres.)*1	Semivolatile Organics *2	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	General (Unpreserved)*3	Cyanide (NaOH)	Nutrients (H_2SO_4)*4	Oil and Grease (H_2SO_4)	Sulfide (Zn Acetate)	Methane	Bacteria ($Na_2S_2O_3$)	DRO (HCl)	VOCs (2-oz tared MeOH)*1	GRO, BTEX (2-oz tared MeOH)*1	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.)*2	% Moisture (plastic vial, unpres.)	Total No. Of Containers	Remarks
1. WSW 207607	9/30/09	1400	✓		✓			~~4~~ 5																		6	(MS/MSD) LIST 2
2. WSW 208405	↓	1510	✓		✓			6																		6	LIST 2
3. FB-1	↓	1420	✓				✓	4																		4	LIST 2
4.																											
5.																											
6.																											SAMPLE 1 : 1 JAR EMPTY -CL
7.																											
8.																											
9.																											
10.																											
11.																											COOLER
12.																											#1 #2 #3
																										HO	2.6 3.4 3.0

Common Parameter/Container - Preservation Key
- *1 - Volatile Organics = BTEX, GRO, TPH, Full List
- *2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
- *3 - General = pH, Chloride, Flouride, Alkalinity, TSS, TDS, TS, Sulfate
- *4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
Ken Okamura	(Y) N	9/30/09			9/30/09	1550
Relinquished By:	On Ice? Y N	Date	Time	Received by:	Date	Time

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☒ Sampler ☐ Other _____

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

H:\LG\STDFORMS\Chain Of Custody Form RLG Rev. 07/01/06

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Technical Services, Inc.
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BULK MATERIAL ASBESTOS ANALYSIS REPORT

Client: Ms. Kelly Neppl
Barr Engineering Co.
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Project: 23/19-BO5SOC 350

Report Date: 6/26/09
Project No.: 0903041
Date Received: 6/26/09
Date Analyzed: 6/29/09

SAMPLE NO.	LAB NO.	SAMPLE DESCRIPTION	ASBESTOS TYPE (%)	OTHER MATERIAL (%)
1	0903041 - 1	Bunker 260-E - North Exterior Wall White/Black, Cementitious/Fibrous Heterogeneous	None Detected	70% Cellulose 28% Nonfibrous 2% Hair

The analysis was performed in accordance with current U.S. Environmental Protection Agency (USEPA) protocols, "Method for the Determination of Asbestos in Bulk Building Materials," EPA 600/R-93/116, 1993. All reported percentages are by visual estimates. In the case of nonhomogeneous samples, each material or layer is analyzed separately and the reported percentages are based on the total sample as received, unless other instructions are received from the client.
The samples were received in acceptable condition.

NVLAP Laboratory Accreditation Number: 102081-0

ANALYST:

Todd Giorgi
Microscopist

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NVLAP LAB CODE 102081-0

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- This report relates only to the above items tested.

0903041

Chain of Custody

BARR

4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

COC 1 of 1

Project Manager: JME

Project Contact: KDN

Sampled by: KCB

Laboratory: Legend

Project Number: 23/19-BOS 006 SOC 350

Project Name: uMore

№ 28003

Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil		Type: Grab	Type: Comp.	Type: QC	Volatile Organics (Pres.) *1	Semivolatile Organics *2	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	General (Unpreserved) *3	Cyanide (NaOH)	Nutrients (H_2SO_4) *4	Oil and Grease (H_2SO_4)	Sulfide (Zn Acetate)	Methane	Bacteria ($Na_2S_2O_3$)	DRO (HCl)	VOCs (2-oz tared MeOH) *1	GRO, BTEX (2-oz tared MeOH) *1	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.) *2	% Moisture (plastic vial, unpres.)	% ACM		Total No. Of Containers	Remarks
1. Bunker 260-E North Exterior Wall	6/15/09	1300			X	X																					X		1	Analyze % asbestos
2.																														
3.																														
4.																														
5.																														
6.																														
7.																														
8.																														
9.																														
10.																														
11.																														
12.																														

Number of Containers/Preservative — Water / Soil

Common Parameter/Container - Preservation Key

*1 - Volatile Organics = BTEX, GRO, TPH, Full List
*2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
*3 - General = pH, Chloride, Flouride, Alkalinity, TSS, TDS, TS, Sulfate
*4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
[signature]	Y (N)	6/26/09	1130			
Relinquished By:	On Ice? Y N	Date	Time	Received by: [signature]	6/26/09	14:38

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other

Air Bill Number:

UMP018989

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

H:RLG\STDFORMS\Chain Of Custody Form RLG Rev. 07\01\05

88 Empire Drive
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September 15, 2009

Ms. Kelly Neppl
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0903872
RE: 23/19-0B05.07

Enclosed are the results of analyses for samples received by the laboratory on 09/01/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of this report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

Terri Olson
Client Manager II
tolson@legend-group.com

Erica Nastrom
QA/QC Coordinator
enastrom@legend-group.com

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Fax: 651-642-1239

Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903872
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/15/09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Tar Coating	0903872-01	Other	08/31/09 12:00	09/01/09 10:45

Shipping Container Information

Default Cooler Temperature (°C): 2.3

Received on ice: Yes
Received on melt water: No
Custody seals: No

Temperature blank was present
Ambient: No

Received on ice pack: No
Acceptable (IH/ISO only): No

Case Narrative:

MN Certification does not apply to carbazole in the 8270C analysis.

Per the client's instructions, % solids were not analyzed on this sample. The results are reported on an 'as received' basis.

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www.legend-group.com

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903872
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/15/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tar Coating (0903872-01) Other Sampled: 08/31/09 12:00 Received: 09/01/09 10:45										
1,2,4-Trichlorobenzene	<16	190	16	mg/kg wet	200	B9I1104	09/11/09	09/14/09	EPA 8270C	
1,2-Dichlorobenzene	<15	190	15	mg/kg wet	200	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<12	190	12	mg/kg wet	200	"	"	"	"	
1,3-Dichlorobenzene	<14	190	14	mg/kg wet	200	"	"	"	"	
1,4-Dichlorobenzene	<14	190	14	mg/kg wet	200	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<22	390	22	mg/kg wet	200	"	"	"	"	
2,4,5-Trichlorophenol	<14	390	14	mg/kg wet	200	"	"	"	"	
2,4,6-Trichlorophenol	<21	390	21	mg/kg wet	200	"	"	"	"	
2,4-Dichlorophenol	<21	390	21	mg/kg wet	200	"	"	"	"	
2,4-Dimethylphenol	<53	390	53	mg/kg wet	200	"	"	"	"	
2,4-Dinitrophenol	<34	390	34	mg/kg wet	200	"	"	"	"	
2,4-Dinitrotoluene	<12	190	12	mg/kg wet	200	"	"	"	"	
2,6-Dichlorophenol	<25	390	25	mg/kg wet	200	"	"	"	"	
2,6-Dinitrotoluene	<11	190	11	mg/kg wet	200	"	"	"	"	
2-Chloronaphthalene	<11	190	11	mg/kg wet	200	"	"	"	"	
2-Chlorophenol	<22	390	22	mg/kg wet	200	"	"	"	"	
2-Methylnaphthalene	**170**	190	16	mg/kg wet	200	"	"	"	"	J
2-Methylphenol	<21	390	21	mg/kg wet	200	"	"	"	"	
2-Nitroaniline	<12	190	12	mg/kg wet	200	"	"	"	"	
2-Nitrophenol	<21	390	21	mg/kg wet	200	"	"	"	"	
3,3´-Dichlorobenzidine	<230	940	230	mg/kg wet	200	"	"	"	"	
3-Nitroaniline	<19	190	19	mg/kg wet	200	"	"	"	"	
4,6-Dinitro-2-methylphenol	<44	390	44	mg/kg wet	200	"	"	"	"	
4-Bromophenyl phenyl ether	<10	190	10	mg/kg wet	200	"	"	"	"	
4-Chloro-3-methylphenol	<24	390	24	mg/kg wet	200	"	"	"	"	
4-Chloroaniline	<65	390	65	mg/kg wet	200	"	"	"	"	
4-Chlorophenyl phenyl ether	<14	190	14	mg/kg wet	200	"	"	"	"	
4-Methylphenol	<16	390	16	mg/kg wet	200	"	"	"	"	
4-Nitroaniline	<14	190	14	mg/kg wet	200	"	"	"	"	
4-Nitrophenol	<58	390	58	mg/kg wet	200	"	"	"	"	
Acenaphthene	**520**	190	16	mg/kg wet	200	"	"	"	"	
Acenaphthylene	<14	190	14	mg/kg wet	200	"	"	"	"	
Aniline	<53	390	53	mg/kg wet	200	"	"	"	"	
Anthracene	**1600**	190	15	mg/kg wet	200	"	"	"	"	
Benzidine	<420	1500	420	mg/kg wet	200	"	"	"	"	
Benzo (a) anthracene	**2600**	190	16	mg/kg wet	200	"	"	"	"	
Benzo (a) pyrene	**1600**	190	16	mg/kg wet	200	"	"	"	"	
Benzo (b) fluoranthene	**2100**	190	20	mg/kg wet	200	"	"	"	"	

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LEGEND Technical Services, Inc.
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88 Empire Drive
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Fax: 651-642-1239

Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903872
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/15/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tar Coating (0903872-01) Other Sampled: 08/31/09 12:00 Received: 09/01/09 10:45										
Benzo (g,h,i) perylene	**640**	190	18	mg/kg wet	200	B9I1104	09/11/09	09/14/09	EPA 8270C	
Benzo (k) fluoranthene	**850**	190	18	mg/kg wet	200	"	"	"	"	
Benzoic acid	<34	190	34	mg/kg wet	200	"	"	"	"	
Benzyl alcohol	<71	390	71	mg/kg wet	200	"	"	"	"	
Bis(2-chloroethoxy)methane	<12	190	12	mg/kg wet	200	"	"	"	"	
Bis(2-chloroethyl)ether	<14	190	14	mg/kg wet	200	"	"	"	"	
Bis(2-chloroisopropyl)ether	<13	190	13	mg/kg wet	200	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<12	190	12	mg/kg wet	200	"	"	"	"	
Butyl benzyl phthalate	<12	190	12	mg/kg wet	200	"	"	"	"	
Carbazole	**600**	190	13	mg/kg wet	200	"	"	"	"	
Chrysene	**2300**	190	19	mg/kg wet	200	"	"	"	"	
Dibenz (a,h) anthracene	**270**	190	20	mg/kg wet	200	"	"	"	"	
Dibenzofuran	**350**	190	11	mg/kg wet	200	"	"	"	"	
Diethyl phthalate	<8.8	190	8.8	mg/kg wet	200	"	"	"	"	
Dimethyl phthalate	<11	190	11	mg/kg wet	200	"	"	"	"	
Di-n-butyl phthalate	<22	190	22	mg/kg wet	200	"	"	"	"	
Di-n-octyl phthalate	<15	190	15	mg/kg wet	200	"	"	"	"	
Fluoranthene	**5800**	390	28	mg/kg wet	400	"	"	09/14/09	"	
Fluorene	**740**	190	11	mg/kg wet	200	"	"	09/14/09	"	
Hexachlorobenzene	<9.4	190	9.4	mg/kg wet	200	"	"	"	"	
Hexachlorobutadiene	<19	190	19	mg/kg wet	200	"	"	"	"	
Hexachlorocyclopentadiene	<24	190	24	mg/kg wet	200	"	"	"	"	
Hexachloroethane	<16	190	16	mg/kg wet	200	"	"	"	"	
Indeno (1,2,3-cd) pyrene	**840**	190	19	mg/kg wet	200	"	"	"	"	
Isophorone	<10	190	10	mg/kg wet	200	"	"	"	"	
Naphthalene	**340**	190	17	mg/kg wet	200	"	"	"	"	
Nitrobenzene	<18	190	18	mg/kg wet	200	"	"	"	"	
N-Nitrosodimethylamine	<19	190	19	mg/kg wet	200	"	"	"	"	
N-Nitrosodi-n-propylamine	<15	190	15	mg/kg wet	200	"	"	"	"	
N-Nitrosodiphenylamine	<11	190	11	mg/kg wet	200	"	"	"	"	
Pentachlorophenol	<56	390	56	mg/kg wet	200	"	"	"	"	
Phenanthrene	**5300**	390	22	mg/kg wet	400	"	"	09/14/09	"	
Phenol	<34	390	34	mg/kg wet	200	"	"	09/14/09	"	
Pyrene	**5100**	190	14	mg/kg wet	200	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol				*47.2-108 %*		"	"	"	"	*D-1*
Surrogate: 2-Fluorobiphenyl				*53.2-85.1 %*		"	"	"	"	*D-1*
Surrogate: 2-Fluorophenol				*48.5-90.1 %*		"	"	"	"	*D-1*
Surrogate: Nitrobenzene-d5				*49.1-86.9 %*		"	"	"	"	*D-1*
Surrogate: Phenol-d6				*47.6-99.6 %*		"	"	"	"	*D-1*

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St Paul, MN 55103
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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903872
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/15/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tar Coating (0903872-01) Other Sampled: 08/31/09 12:00 Received: 09/01/09 10:45										
Surrogate: Terphenyl-d14				*43.6-112 %*		*B9I1104*	*09/11/09*	*09/14/09*	*EPA 8270C*	*D-1*

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903872
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/15/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1104 - EPA 3550B											
Blank (B9I1104-BLK1)					Prepared: 09/11/09 Analyzed: 09/14/09						
1,2,4-Trichlorobenzene	< 0.027	0.33	0.027	mg/kg wet							
1,2-Dichlorobenzene	< 0.025	0.33	0.025	mg/kg wet							
1,2-Diphenylhydrazine as Azobenzene	< 0.020	0.33	0.020	mg/kg wet							
1,3-Dichlorobenzene	< 0.023	0.33	0.023	mg/kg wet							
1,4-Dichlorobenzene	< 0.024	0.33	0.024	mg/kg wet							
2,3,4,6-Tetrachlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2,4,5-Trichlorophenol	< 0.024	0.67	0.024	mg/kg wet							
2,4,6-Trichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dimethylphenol	< 0.090	0.67	0.090	mg/kg wet							
2,4-Dinitrophenol	< 0.058	0.67	0.058	mg/kg wet							
2,4-Dinitrotoluene	< 0.021	0.33	0.021	mg/kg wet							
2,6-Dichlorophenol	< 0.043	0.67	0.043	mg/kg wet							
2,6-Dinitrotoluene	< 0.019	0.33	0.019	mg/kg wet							
2-Chloronaphthalene	< 0.019	0.33	0.019	mg/kg wet							
2-Chlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2-Methylnaphthalene	< 0.028	0.33	0.028	mg/kg wet							
2-Methylphenol	< 0.035	0.67	0.035	mg/kg wet							
2-Nitroaniline	< 0.020	0.33	0.020	mg/kg wet							
2-Nitrophenol	< 0.036	0.67	0.036	mg/kg wet							
3,3´-Dichlorobenzidine	< 0.39	1.6	0.39	mg/kg wet							
3-Nitroaniline	< 0.033	0.33	0.033	mg/kg wet							
4,6-Dinitro-2-methylphenol	< 0.074	0.67	0.074	mg/kg wet							
4-Bromophenyl phenyl ether	< 0.017	0.33	0.017	mg/kg wet							
4-Chloro-3-methylphenol	< 0.040	0.67	0.040	mg/kg wet							
4-Chloroaniline	< 0.11	0.67	0.11	mg/kg wet							
4-Chlorophenyl phenyl ether	< 0.023	0.33	0.023	mg/kg wet							
4-Methylphenol	< 0.027	0.67	0.027	mg/kg wet							
4-Nitroaniline	< 0.023	0.33	0.023	mg/kg wet							
4-Nitrophenol	< 0.099	0.67	0.099	mg/kg wet							
Acenaphthene	< 0.028	0.33	0.028	mg/kg wet							
Acenaphthylene	< 0.023	0.33	0.023	mg/kg wet							
Aniline	< 0.090	0.67	0.090	mg/kg wet							
Anthracene	< 0.025	0.33	0.025	mg/kg wet							
Benzidine	< 0.72	2.5	0.72	mg/kg wet							
Benzo (a) anthracene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (a) pyrene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (b) fluoranthene	< 0.034	0.33	0.034	mg/kg wet							
Benzo (g,h,i) perylene	< 0.030	0.33	0.030	mg/kg wet							

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903872
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/15/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1104 - EPA 3550B											
Blank (B9I1104-BLK1)					Prepared: 09/11/09 Analyzed: 09/14/09						
Benzo (k) fluoranthene	< 0.031	0.33	0.031	mg/kg wet							
Benzoic acid	< 0.058	0.33	0.058	mg/kg wet							
Benzyl alcohol	< 0.12	0.67	0.12	mg/kg wet							
Bis(2-chloroethoxy)methane	< 0.021	0.33	0.021	mg/kg wet							
Bis(2-chloroethyl)ether	< 0.024	0.33	0.024	mg/kg wet							
Bis(2-chloroisopropyl)ether	< 0.022	0.33	0.022	mg/kg wet							
Bis(2-ethylhexyl)phthalate	< 0.020	0.33	0.020	mg/kg wet							
Butyl benzyl phthalate	< 0.021	0.33	0.021	mg/kg wet							
Carbazole	< 0.022	0.33	0.022	mg/kg wet							
Chrysene	< 0.033	0.33	0.033	mg/kg wet							
Dibenz (a,h) anthracene	< 0.034	0.33	0.034	mg/kg wet							
Dibenzofuran	< 0.019	0.33	0.019	mg/kg wet							
Diethyl phthalate	< 0.015	0.33	0.015	mg/kg wet							
Dimethyl phthalate	< 0.018	0.33	0.018	mg/kg wet							
Di-n-butyl phthalate	< 0.037	0.33	0.037	mg/kg wet							
Di-n-octyl phthalate	< 0.025	0.33	0.025	mg/kg wet							
Fluoranthene	< 0.024	0.33	0.024	mg/kg wet							
Fluorene	< 0.018	0.33	0.018	mg/kg wet							
Hexachlorobenzene	< 0.016	0.33	0.016	mg/kg wet							
Hexachlorobutadiene	< 0.033	0.33	0.033	mg/kg wet							
Hexachlorocyclopentadiene	< 0.041	0.33	0.041	mg/kg wet							
Hexachloroethane	< 0.028	0.33	0.028	mg/kg wet							
Indeno (1,2,3-cd) pyrene	< 0.032	0.33	0.032	mg/kg wet							
Isophorone	< 0.017	0.33	0.017	mg/kg wet							
Naphthalene	< 0.029	0.33	0.029	mg/kg wet							
Nitrobenzene	< 0.030	0.33	0.030	mg/kg wet							
N-Nitrosodimethylamine	< 0.032	0.33	0.032	mg/kg wet							
N-Nitrosodi-n-propylamine	< 0.025	0.33	0.025	mg/kg wet							
N-Nitrosodiphenylamine	< 0.018	0.33	0.018	mg/kg wet							
Pentachlorophenol	< 0.096	0.67	0.096	mg/kg wet							
Phenanthrene	< 0.019	0.33	0.019	mg/kg wet							
Phenol	< 0.057	0.67	0.057	mg/kg wet							
Pyrene	< 0.023	0.33	0.023	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	*4.71*			*mg/kg wet*	*6.67*		*70.6*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*4.46*			*mg/kg wet*	*6.67*		*66.9*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*4.40*			*mg/kg wet*	*6.67*		*66.0*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.26*			*mg/kg wet*	*6.67*		*64.0*	*49.1-86.9*			
Surrogate: Phenol-d6	*4.22*			*mg/kg wet*	*6.67*		*63.2*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*6.35*			*mg/kg wet*	*6.67*		*95.2*	*43.6-112*			

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UMP018996

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Barr Engineering Co.	Project:	23/19-0B05.07			
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300		Work Order #:	0903872
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/15/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1104 - EPA 3550B											
LCS (B9I1104-BS1)					Prepared: 09/11/09		Analyzed: 09/14/09				
1,2,4-Trichlorobenzene	4.69	0.33	0.027	mg/kg wet	6.67		70.3	50.7-82.1			
1,4-Dichlorobenzene	4.43	0.33	0.024	mg/kg wet	6.67		66.4	44-77			
2,4-Dinitrotoluene	5.10	0.33	0.021	mg/kg wet	6.67		76.5	56.7-81.7			
2-Chlorophenol	4.54	0.67	0.038	mg/kg wet	6.67		68.1	52.3-88.2			
4-Chloro-3-methylphenol	4.97	0.67	0.040	mg/kg wet	6.67		74.6	53.4-87			
4-Nitrophenol	5.19	0.67	0.099	mg/kg wet	6.67		77.9	55.7-87.1			
Anthracene	5.72	0.33	0.025	mg/kg wet	6.67		85.8	65.3-92			
Benzo (a) anthracene	5.57	0.33	0.027	mg/kg wet	6.67		83.5	69-95.3			
Benzo (a) pyrene	6.01	0.33	0.027	mg/kg wet	6.67		90.1	68.5-98.2			
Chrysene	5.38	0.33	0.033	mg/kg wet	6.67		80.7	68.6-94.2			
Fluoranthene	5.95	0.33	0.024	mg/kg wet	6.67		89.3	64.3-94.6			
Fluorene	5.47	0.33	0.018	mg/kg wet	6.67		82.1	61.9-89.4			
N-Nitrosodi-n-propylamine	4.68	0.33	0.025	mg/kg wet	6.67		70.1	55.5-91.1			
Pentachlorophenol	4.94	0.67	0.096	mg/kg wet	6.67		74.2	54.7-74.6			
Phenanthrene	5.84	0.33	0.019	mg/kg wet	6.67		87.6	64.3-90.9			
Phenol	4.62	0.67	0.057	mg/kg wet	6.67		69.3	49.7-85.4			
Surrogate: 2,4,6-Tribromophenol	*4.18*			*mg/kg wet*	*6.67*		*62.6*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*5.24*			*mg/kg wet*	*6.67*		*78.6*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*4.56*			*mg/kg wet*	*6.67*		*68.4*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.65*			*mg/kg wet*	*6.67*		*69.8*	*49.1-86.9*			
Surrogate: Phenol-d6	*4.79*			*mg/kg wet*	*6.67*		*71.9*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.11*			*mg/kg wet*	*6.67*		*76.6*	*43.6-112*			
LCS Dup (B9I1104-BSD1)					Prepared: 09/11/09		Analyzed: 09/14/09				
1,2,4-Trichlorobenzene	4.54	0.33	0.027	mg/kg wet	6.67		68.1	50.7-82.1	3.16	20	
1,4-Dichlorobenzene	4.34	0.33	0.024	mg/kg wet	6.67		65.1	44-77	2.00	20	
2,4-Dinitrotoluene	4.97	0.33	0.021	mg/kg wet	6.67		74.5	56.7-81.7	2.62	20	
2-Chlorophenol	4.69	0.67	0.038	mg/kg wet	6.67		70.3	52.3-88.2	3.16	20	
4-Chloro-3-methylphenol	5.09	0.67	0.040	mg/kg wet	6.67		76.4	53.4-87	2.33	20	
4-Nitrophenol	5.18	0.67	0.099	mg/kg wet	6.67		77.7	55.7-87.1	0.210	20	
Anthracene	5.66	0.33	0.025	mg/kg wet	6.67		84.9	65.3-92	1.07	20	
Benzo (a) anthracene	5.44	0.33	0.027	mg/kg wet	6.67		81.6	69-95.3	2.30	20	
Benzo (a) pyrene	5.67	0.33	0.027	mg/kg wet	6.67		85.1	68.5-98.2	5.70	20	
Chrysene	5.35	0.33	0.033	mg/kg wet	6.67		80.2	68.6-94.2	0.544	20	
Fluoranthene	5.77	0.33	0.024	mg/kg wet	6.67		86.6	64.3-94.6	3.06	20	
Fluorene	5.40	0.33	0.018	mg/kg wet	6.67		80.9	61.9-89.4	1.44	20	
N-Nitrosodi-n-propylamine	4.74	0.33	0.025	mg/kg wet	6.67		71.1	55.5-91.1	1.38	20	
Pentachlorophenol	4.78	0.67	0.096	mg/kg wet	6.67		71.6	54.7-74.6	3.44	20	
Phenanthrene	5.66	0.33	0.019	mg/kg wet	6.67		84.9	64.3-90.9	3.18	20	
Phenol	4.74	0.67	0.057	mg/kg wet	6.67		71.0	49.7-85.4	2.49	20	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903872
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/15/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1104 - EPA 3550B											
LCS Dup (B9I1104-BSD1)					Prepared: 09/11/09		Analyzed: 09/14/09				
Surrogate: 2,4,6-Tribromophenol	*4.73*			*mg/kg wet*	*6.67*		*70.9*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*5.23*			*mg/kg wet*	*6.67*		*78.5*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*4.87*			*mg/kg wet*	*6.67*		*73.0*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.64*			*mg/kg wet*	*6.67*		*69.7*	*49.1-86.9*			
Surrogate: Phenol-d6	*4.97*			*mg/kg wet*	*6.67*		*74.6*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.01*			*mg/kg wet*	*6.67*		*75.2*	*43.6-112*			

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UMP018998

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903872
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/15/09

Notes and Definitions

J	Parameter was present between the MDL and RL and should be considered an estimated value
D-1	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interferences.
<	Less than value listed
dry	Sample results reported on a dry weight basis
NA	Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL	Method Detection Limit
RL	Reporting Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
MS	Matrix Spike = Laboratory Fortified Matrix (LFM)

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UMP018999

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5903872

Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

COC 1 of 1

Project Manager: JSA/JME

Project Contact: KJN/MAN

Sampled by: KCB

Laboratory: Legend

Project Number: 23/19-0805-01 SI/RI 300

Project Name: UMore UMA-SSI/RI

№ 28803

Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Volatile Organics (Pres.) *1	Semivolatile Organics *2	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	General (Unpreserved) *3	Cyanide (NaOH)	Nutrients (H_2SO_4) *4	Oil and Grease (H_2SO_4)	Sulfide (Zn Acetate)	Methane	Bacteria ($Na_2S_2O_3$)	DRO (HCl)			VOCs (2-oz tared MeOH) *1	GRO, BTEX (2-oz tared MeOH) *1	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.) *2	% Moisture (plastic vial, unpres.)			Total No. Of Containers	Remarks
1. Tar Coating	8/31/09	1200		X	X																					X					1	Analyze SVOCs
2.																															
3.																															
4.																															
5.																															
6.																															
7.																															
8.																															
9.																															
10.																															
11.																															
12.																															

Common Parameter/Container - Preservation Key

*1 - Volatile Organics = BTEX, GRO, TPH, Full List
*2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
*3 - General = pH, Chloride, Flouride, Alkalinity, TSS, TDS, TS, Sulfate
*4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice? Y N	Date	Time	Received by:	Date	Time
Relinquished By:	On Ice? Y N	Date	Time	Received by: BPham LDS	Date 9/1/09	Time 10:45

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other _____

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

RR 23°

H:\RLG\STDFORMS\Chain Of Custody Form RLG Rev. 07/01/05

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September 24, 2009

REVISION

Ms. Kelly Neppl
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0903873
RE: 23/19-0B05.07

This is a revised report. The details of the revision are listed in the case narrative on the following page.

Enclosed are the results of analyses for samples received by the laboratory on 09/01/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of the original report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

Terri Olson
Client Manager II
tolson@legend-group.com

Erica Nastrom
QA/QC Coordinator
enastrom@legend-group.com

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC5-SS2-0.5'	0903873-01	Soil	08/31/09 09:35	09/01/09 10:45
SOC5-SS14-0.5'	0903873-02	Soil	08/31/09 10:25	09/01/09 10:45
SOC5-SS12-0.5'	0903873-03	Soil	08/31/09 10:35	09/01/09 10:45
SOC5-SS1-0.5'	0903873-04	Soil	08/31/09 10:50	09/01/09 10:45
SOC5-SS18-0.5'	0903873-05	Soil	08/31/09 11:15	09/01/09 10:45
SOC5-SS20-0.5'	0903873-06	Soil	08/31/09 11:25	09/01/09 10:45
SOC5-SS16-0.5'	0903873-07	Soil	08/31/09 11:35	09/01/09 10:45
SOC5-SS4-0.5'	0903873-08	Soil	08/31/09 11:45	09/01/09 10:45
SOC5-SS22-0.5'	0903873-09	Soil	08/31/09 12:45	09/01/09 10:45
SOC5-SS26-0.5'	0903873-10	Soil	08/31/09 12:55	09/01/09 10:45
SOC5-SS24-0.5'	0903873-11	Soil	08/31/09 13:05	09/01/09 10:45
SOC5-SS3-0.5'	0903873-12	Soil	08/31/09 13:25	09/01/09 10:45
SOC5-SS46-0.5'	0903873-13	Soil	08/31/09 13:40	09/01/09 10:45
SOC5-SS28-0.5'	0903873-14	Soil	08/31/09 15:00	09/01/09 10:45
SOC5-SS32-0.5'	0903873-15	Soil	08/31/09 15:15	09/01/09 10:45
SOC5-SS5-0.5'	0903873-16	Soil	08/31/09 15:30	09/01/09 10:45
SOC5-SS6-0.5'	0903873-17	Soil	08/31/09 15:55	09/01/09 10:45
SOC5-SS30-0.5'	0903873-18	Soil	08/31/09 15:25	09/01/09 10:45

Shipping Container Information

Default Cooler Temperature (°C): 2.3

Received on ice: Yes
Temperature blank was present
Received on ice pack: No
Received on melt water: No
Ambient: No
Acceptable (IH/ISO only): No
Custody seals: No

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

Case Narrative:

MN Certification does not apply to carbazole in the 8270C analysis.

Recovery for the 8270 SVOC compound pentachlorophenol was below laboratory limits in the batch B9I0810 MS/MSD. Recoveries for the surrogate 2-fluorophenol in sample SOC5-SS26-0.5' and 2-fluorobiphenyl in sample SOC5-SS32-0.5' were below laboratory limits. All spike compounds and surrogates were within limits in the batch method blank and LCS. The MS/MSD source sample was not associated with this work order.

Di-n-butyl phthalate was detected in the 8270 water batch B9I0810 method blank between the MDL and RL. Samples where the di-n-butyl phthalate result was equal to or less than five times the blank concentration are flagged.

Antimony and zinc recoveries in the MS/MSD samples for batch B9I0312 were below laboratory control limits. Recoveries in the LCS/LCSD samples and the corresponding RPDs were within limits. The MS/MSD source sample was not associated with this work order.

At the client's request, this report was revised on September 24, 2009 to include ICP PP metals results for sample SOC5-SS5-0.5'.

Nickel and zinc recoveries in the MS sample and antimony, chromium, nickel, selenium, silver, thallium and zinc recoveries in the MSD sample batch B9I2001 were below laboratory control limits. Recoveries in the LCS/LCSD samples and the corresponding RPDs were within limits. The MS/MSD source sample was not associated with this work order.

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Barr Engineering Co.	Project:	23/19-0B05.07			
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300		Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/24/09

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS2-0.5' (0903873-01) Soil Sampled: 08/31/09 09:35 Received: 09/01/09 10:45										
Antimony	<0.61	0.61	0.0067	mg/kg dry	1	B9I0312	09/03/09	09/15/09	EPA 6010B	
Arsenic	**6.7**	0.61	0.12	mg/kg dry	1	"	"	"	"	
Beryllium	**0.57**	0.30	0.013	mg/kg dry	1	"	"	"	"	
Cadmium	**0.35**	0.30	0.030	mg/kg dry	1	"	"	"	"	
Chromium	**17**	0.61	0.015	mg/kg dry	1	"	"	"	"	
Copper	**10**	1.2	0.085	mg/kg dry	1	"	"	"	"	
Lead	**21**	1.2	0.041	mg/kg dry	1	"	"	"	"	
Mercury	**0.66**	0.12	0.0022	mg/kg dry	1	B9I0315	09/03/09	09/04/09	EPA 7471A	
Nickel	**15**	0.61	0.017	mg/kg dry	1	B9I0312	09/03/09	09/15/09	EPA 6010B	
Selenium	<1.2	1.2	0.13	mg/kg dry	1	"	"	"	"	
Silver	<0.30	0.30	0.011	mg/kg dry	1	"	"	"	"	
Thallium	<2.4	2.4	0.16	mg/kg dry	1	"	"	"	"	
Zinc	**20**	1.2	0.27	mg/kg dry	1	"	"	"	"	
SOC5-SS1-0.5' (0903873-04) Soil Sampled: 08/31/09 10:50 Received: 09/01/09 10:45										
Antimony	<0.61	0.61	0.0067	mg/kg dry	1	B9I0312	09/03/09	09/15/09	EPA 6010B	
Arsenic	**6.4**	0.61	0.12	mg/kg dry	1	"	"	"	"	
Beryllium	**0.48**	0.30	0.013	mg/kg dry	1	"	"	"	"	
Cadmium	<0.30	0.30	0.030	mg/kg dry	1	"	"	"	"	
Chromium	**15**	0.61	0.015	mg/kg dry	1	"	"	"	"	
Copper	**9.3**	1.2	0.085	mg/kg dry	1	"	"	"	"	
Lead	**16**	1.2	0.041	mg/kg dry	1	"	"	"	"	
Mercury	<0.12	0.12	0.0022	mg/kg dry	1	B9I0315	09/03/09	09/04/09	EPA 7471A	
Nickel	**13**	0.61	0.017	mg/kg dry	1	B9I0312	09/03/09	09/15/09	EPA 6010B	
Selenium	<1.2	1.2	0.13	mg/kg dry	1	"	"	"	"	
Silver	<0.30	0.30	0.011	mg/kg dry	1	"	"	"	"	
Thallium	<2.4	2.4	0.16	mg/kg dry	1	"	"	"	"	
Zinc	**20**	1.2	0.27	mg/kg dry	1	"	"	"	"	
SOC5-SS4-0.5' (0903873-08) Soil Sampled: 08/31/09 11:45 Received: 09/01/09 10:45										
Antimony	<0.59	0.59	0.0065	mg/kg dry	1	B9I0312	09/03/09	09/15/09	EPA 6010B	
Arsenic	**5.7**	0.59	0.12	mg/kg dry	1	"	"	"	"	
Beryllium	**0.31**	0.29	0.013	mg/kg dry	1	"	"	"	"	
Cadmium	<0.29	0.29	0.029	mg/kg dry	1	"	"	"	"	
Chromium	**15**	0.59	0.014	mg/kg dry	1	"	"	"	"	
Copper	**11**	1.2	0.082	mg/kg dry	1	"	"	"	"	
Lead	**13**	1.2	0.040	mg/kg dry	1	"	"	"	"	
Mercury	<0.12	0.12	0.0021	mg/kg dry	1	B9I0315	09/03/09	09/04/09	EPA 7471A	
Nickel	**14**	0.59	0.016	mg/kg dry	1	B9I0312	09/03/09	09/15/09	EPA 6010B	

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Barr Engineering Co.	Project:	23/19-0B05.07			
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300		Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/24/09

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS4-0.5' (0903873-08) Soil Sampled: 08/31/09 11:45 Received: 09/01/09 10:45										
Selenium	<1.2	1.2	0.13	mg/kg dry	1	B9I0312	09/03/09	09/15/09	EPA 6010B	
Silver	<0.29	0.29	0.011	mg/kg dry	1	"	"	"	"	
Thallium	<2.4	2.4	0.15	mg/kg dry	1	"	"	"	"	
Zinc	**39**	1.2	0.26	mg/kg dry	1	"	"	"	"	
SOC5-SS3-0.5' (0903873-12) Soil Sampled: 08/31/09 13:25 Received: 09/01/09 10:45										
Antimony	**0.73**	0.63	0.0070	mg/kg dry	1	B9I0312	09/03/09	09/15/09	EPA 6010B	
Arsenic	**7.1**	0.63	0.13	mg/kg dry	1	"	"	"	"	
Beryllium	**0.54**	0.32	0.014	mg/kg dry	1	"	"	"	"	
Cadmium	<0.32	0.32	0.032	mg/kg dry	1	"	"	"	"	
Chromium	**17**	0.63	0.015	mg/kg dry	1	"	"	"	"	
Copper	**16**	1.3	0.089	mg/kg dry	1	"	"	"	"	
Lead	**22**	1.3	0.043	mg/kg dry	1	"	"	"	"	
Mercury	<0.13	0.13	0.0023	mg/kg dry	1	B9I0315	09/03/09	09/04/09	EPA 7471A	
Nickel	**17**	0.63	0.018	mg/kg dry	1	B9I0312	09/03/09	09/15/09	EPA 6010B	
Selenium	<1.3	1.3	0.14	mg/kg dry	1	"	"	"	"	
Silver	<0.32	0.32	0.011	mg/kg dry	1	"	"	"	"	
Thallium	<2.5	2.5	0.16	mg/kg dry	1	"	"	"	"	
Zinc	**24**	1.3	0.28	mg/kg dry	1	"	"	"	"	
SOC5-SS5-0.5' (0903873-16) Soil Sampled: 08/31/09 15:30 Received: 09/01/09 10:45										
Antimony	<0.65	0.65	0.0071	mg/kg dry	1	B9I2001	09/20/09	09/21/09	EPA 6010B	
Arsenic	**6.9**	0.65	0.13	mg/kg dry	1	"	"	"	"	
Beryllium	<0.32	0.32	0.014	mg/kg dry	1	"	"	"	"	
Cadmium	<0.32	0.32	0.032	mg/kg dry	1	"	"	"	"	
Chromium	**15**	0.65	0.016	mg/kg dry	1	"	"	"	"	
Copper	**14**	1.3	0.091	mg/kg dry	1	"	"	"	"	
Lead	**18**	1.3	0.044	mg/kg dry	1	"	"	"	"	
Nickel	**15**	0.65	0.018	mg/kg dry	1	"	"	"	"	
Selenium	<1.3	1.3	0.14	mg/kg dry	1	"	"	"	"	
Silver	<0.32	0.32	0.012	mg/kg dry	1	"	"	"	"	
Thallium	<2.6	2.6	0.17	mg/kg dry	1	"	"	"	"	
Zinc	**12**	1.3	0.29	mg/kg dry	1	"	"	"	"	
SOC5-SS6-0.5' (0903873-17) Soil Sampled: 08/31/09 15:55 Received: 09/01/09 10:45										
Antimony	<0.60	0.60	0.0066	mg/kg dry	1	B9I0312	09/03/09	09/15/09	EPA 6010B	
Arsenic	**7.0**	0.60	0.12	mg/kg dry	1	"	"	"	"	
Beryllium	**0.53**	0.30	0.013	mg/kg dry	1	"	"	"	"	
Cadmium	<0.30	0.30	0.030	mg/kg dry	1	"	"	"	"	
Chromium	**15**	0.60	0.014	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS6-0.5' (0903873-17) Soil Sampled: 08/31/09 15:55 Received: 09/01/09 10:45										
Copper	**9.6**	1.2	0.084	mg/kg dry	1	B9I0312	09/03/09	09/15/09	EPA 6010B	
Lead	**13**	1.2	0.041	mg/kg dry	1	"	"	"	"	
Mercury	<0.12	0.12	0.0022	mg/kg dry	1	B9I0315	09/03/09	09/04/09	EPA 7471A	
Nickel	**14**	0.60	0.017	mg/kg dry	1	B9I0312	09/03/09	09/15/09	EPA 6010B	
Selenium	<1.2	1.2	0.13	mg/kg dry	1	"	"	"	"	
Silver	<0.30	0.30	0.011	mg/kg dry	1	"	"	"	"	
Thallium	<2.4	2.4	0.16	mg/kg dry	1	"	"	"	"	
Zinc	**25**	1.2	0.27	mg/kg dry	1	"	"	"	"	

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4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

PCB 8082
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS46-0.5' (0903873-13) Soil Sampled: 08/31/09 13:40 Received: 09/01/09 10:45										
Aroclor 1016	<0.20	0.20	0.012	mg/kg dry	1	B9I1003	09/10/09	09/11/09	EPA 8082	
Aroclor 1221	<0.20	0.20	0.020	mg/kg dry	1	"	"	"	"	
Aroclor 1232	<0.20	0.20	0.015	mg/kg dry	1	"	"	"	"	
Aroclor 1242	<0.20	0.20	0.019	mg/kg dry	1	"	"	"	"	
Aroclor 1248	<0.20	0.20	0.011	mg/kg dry	1	"	"	"	"	
Aroclor 1254	<0.20	0.20	0.015	mg/kg dry	1	"	"	"	"	
Aroclor 1260	<0.20	0.20	0.011	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	*83.5*			*65.3-143 %*		"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	*89.0*			*60.9-138 %*		"	"	"	"	

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4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #: 0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported: 09/24/09

PERCENT SOLIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS2-0.5' (0903873-01) Soil Sampled: 08/31/09 09:35 Received: 09/01/09 10:45										
% Solids	**82**			%	1	B9I1011	09/10/09	09/11/09	% calculation	
SOC5-SS14-0.5' (0903873-02) Soil Sampled: 08/31/09 10:25 Received: 09/01/09 10:45										
% Solids	**95**			%	1	B9I1011	09/10/09	09/11/09	% calculation	
SOC5-SS12-0.5' (0903873-03) Soil Sampled: 08/31/09 10:35 Received: 09/01/09 10:45										
% Solids	**81**			%	1	B9I1011	09/10/09	09/11/09	% calculation	
SOC5-SS1-0.5' (0903873-04) Soil Sampled: 08/31/09 10:50 Received: 09/01/09 10:45										
% Solids	**82**			%	1	B9I1011	09/10/09	09/11/09	% calculation	
SOC5-SS18-0.5' (0903873-05) Soil Sampled: 08/31/09 11:15 Received: 09/01/09 10:45										
% Solids	**87**			%	1	B9I1011	09/10/09	09/11/09	% calculation	
SOC5-SS20-0.5' (0903873-06) Soil Sampled: 08/31/09 11:25 Received: 09/01/09 10:45										
% Solids	**88**			%	1	B9I1011	09/10/09	09/11/09	% calculation	
SOC5-SS16-0.5' (0903873-07) Soil Sampled: 08/31/09 11:35 Received: 09/01/09 10:45										
% Solids	**90**			%	1	B9I1011	09/10/09	09/11/09	% calculation	
SOC5-SS4-0.5' (0903873-08) Soil Sampled: 08/31/09 11:45 Received: 09/01/09 10:45										
% Solids	**85**			%	1	B9I1011	09/10/09	09/11/09	% calculation	
SOC5-SS22-0.5' (0903873-09) Soil Sampled: 08/31/09 12:45 Received: 09/01/09 10:45										
% Solids	**82**			%	1	B9I1011	09/10/09	09/11/09	% calculation	
SOC5-SS26-0.5' (0903873-10) Soil Sampled: 08/31/09 12:55 Received: 09/01/09 10:45										
% Solids	**82**			%	1	B9I1011	09/10/09	09/11/09	% calculation	
SOC5-SS24-0.5' (0903873-11) Soil Sampled: 08/31/09 13:05 Received: 09/01/09 10:45										
% Solids	**90**			%	1	B9I1011	09/10/09	09/11/09	% calculation	
SOC5-SS3-0.5' (0903873-12) Soil Sampled: 08/31/09 13:25 Received: 09/01/09 10:45										
% Solids	**79**			%	1	B9I1011	09/10/09	09/11/09	% calculation	
SOC5-SS46-0.5' (0903873-13) Soil Sampled: 08/31/09 13:40 Received: 09/01/09 10:45										
% Solids	**98**			%	1	B9I1011	09/10/09	09/11/09	% calculation	
SOC5-SS28-0.5' (0903873-14) Soil Sampled: 08/31/09 15:00 Received: 09/01/09 10:45										
% Solids	**84**			%	1	B9I1011	09/10/09	09/11/09	% calculation	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

PERCENT SOLIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS32-0.5' (0903873-15) Soil Sampled: 08/31/09 15:15 Received: 09/01/09 10:45										
% Solids	**88**			%	1	B9I1011	09/10/09	09/11/09	% calculation	
SOC5-SS5-0.5' (0903873-16) Soil Sampled: 08/31/09 15:30 Received: 09/01/09 10:45										
% Solids	**77**			%	1	B9I1011	09/10/09	09/11/09	% calculation	
SOC5-SS6-0.5' (0903873-17) Soil Sampled: 08/31/09 15:55 Received: 09/01/09 10:45										
% Solids	**83**			%	1	B9I1011	09/10/09	09/11/09	% calculation	
SOC5-SS30-0.5' (0903873-18) Soil Sampled: 08/31/09 15:25 Received: 09/01/09 10:45										
% Solids	**84**			%	1	B9I1011	09/10/09	09/11/09	% calculation	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS2-0.5' (0903873-01) Soil Sampled: 08/31/09 09:35 Received: 09/01/09 10:45										
1,2,4-Trichlorobenzene	<0.033	0.40	0.033	mg/kg dry	1	B9I0210	09/02/09	09/03/09	EPA 8270C	
1,2-Dichlorobenzene	<0.030	0.40	0.030	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.024	0.40	0.024	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.029	0.40	0.029	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.046	0.82	0.046	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.029	0.82	0.029	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.043	0.82	0.043	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.043	0.82	0.043	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.82	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.071	0.82	0.071	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.026	0.40	0.026	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.052	0.82	0.052	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.023	0.40	0.023	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.023	0.40	0.023	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.046	0.82	0.046	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.034	0.40	0.034	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.043	0.82	0.043	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.024	0.40	0.024	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.044	0.82	0.044	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.48	2.0	0.48	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.040	0.40	0.040	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.090	0.82	0.090	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.021	0.40	0.021	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.049	0.82	0.049	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.82	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.033	0.82	0.033	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.82	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.034	0.40	0.034	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
Aniline	<0.11	0.82	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	**0.049**	0.40	0.030	mg/kg dry	1	"	"	"	"	J
Benzidine	<0.88	3.0	0.88	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	**0.093**	0.40	0.033	mg/kg dry	1	"	"	"	"	J
Benzo (a) pyrene	**0.073**	0.40	0.033	mg/kg dry	1	"	"	"	"	J
Benzo (b) fluoranthene	**0.095**	0.40	0.041	mg/kg dry	1	"	"	"	"	J
Benzo (g,h,i) perylene	<0.037	0.40	0.037	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS2-0.5' (0903873-01) Soil Sampled: 08/31/09 09:35 Received: 09/01/09 10:45										
Benzo (k) fluoranthene	**0.038**	0.40	0.038	mg/kg dry	1	B9I0210	09/02/09	09/03/09	EPA 8270C	J
Benzoic acid	<0.071	0.40	0.071	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.15	0.82	0.15	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.026	0.40	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.029	0.40	0.029	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.027	0.40	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.024	0.40	0.024	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.026	0.40	0.026	mg/kg dry	1	"	"	"	"	
Carbazole	<0.027	0.40	0.027	mg/kg dry	1	"	"	"	"	
Chrysene	**0.093**	0.40	0.040	mg/kg dry	1	"	"	"	"	J
Dibenz (a,h) anthracene	<0.041	0.40	0.041	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.023	0.40	0.023	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.018	0.40	0.018	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.022	0.40	0.022	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.045	0.40	0.045	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.030	0.40	0.030	mg/kg dry	1	"	"	"	"	
Fluoranthene	**0.20**	0.40	0.029	mg/kg dry	1	"	"	"	"	J
Fluorene	<0.022	0.40	0.022	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.020	0.40	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.040	0.40	0.040	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.050	0.40	0.050	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.034	0.40	0.034	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	**0.041**	0.40	0.039	mg/kg dry	1	"	"	"	"	J
Isophorone	<0.021	0.40	0.021	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.035	0.40	0.035	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.037	0.40	0.037	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.039	0.40	0.039	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.030	0.40	0.030	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.022	0.40	0.022	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.12	0.82	0.12	mg/kg dry	1	"	"	"	"	
Phenanthrene	**0.19**	0.40	0.023	mg/kg dry	1	"	"	"	"	J
Phenol	<0.070	0.82	0.070	mg/kg dry	1	"	"	"	"	
Pyrene	**0.17**	0.40	0.028	mg/kg dry	1	"	"	"	"	J
Surrogate: 2,4,6-Tribromophenol	*93.6*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*67.1*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*62.7*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*73.9*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*71.9*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*66.2*			*43.6-112 %*		"	"	"	"	

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4700 W 77th St	Project Number:	23/19-0B05.07SIRI300		Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS14-0.5' (0903873-02) Soil Sampled: 08/31/09 10:25 Received: 09/01/09 10:45										
1,2,4-Trichlorobenzene	<0.028	0.35	0.028	mg/kg dry	1	B9I0210	09/02/09	09/04/09	EPA 8270C	
1,2-Dichlorobenzene	<0.026	0.35	0.026	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.021	0.35	0.021	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.025	0.35	0.025	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.040	0.71	0.040	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.025	0.71	0.025	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.037	0.71	0.037	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.037	0.71	0.037	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.095	0.71	0.095	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.061	0.71	0.061	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.045	0.71	0.045	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.040	0.71	0.040	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	**0.75**	0.35	0.029	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.037	0.71	0.037	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.021	0.35	0.021	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.038	0.71	0.038	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.41	1.7	0.41	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.035	0.35	0.035	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.078	0.71	0.078	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.018	0.35	0.018	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.042	0.71	0.042	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.12	0.71	0.12	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
4-Methylphenol	**0.053**	0.71	0.028	mg/kg dry	1	"	"	"	"	J
4-Nitroaniline	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.10	0.71	0.10	mg/kg dry	1	"	"	"	"	
Acenaphthene	**4.0**	0.35	0.029	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
Aniline	<0.095	0.71	0.095	mg/kg dry	1	"	"	"	"	
Anthracene	**6.1**	0.35	0.026	mg/kg dry	1	"	"	"	"	
Benzidine	<0.76	2.6	0.76	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	**7.8**	0.35	0.028	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	**5.9**	0.35	0.028	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	**7.3**	0.35	0.036	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	**2.2**	0.35	0.032	mg/kg dry	1	"	"	"	"	

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88 Empire Drive
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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS14-0.5' (0903873-02) Soil Sampled: 08/31/09 10:25 Received: 09/01/09 10:45										
Benzo (k) fluoranthene	**2.9**	0.35	0.033	mg/kg dry	1	B9I0210	09/02/09	09/04/09	EPA 8270C	
Benzoic acid	<0.061	0.35	0.061	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.13	0.71	0.13	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.025	0.35	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.023	0.35	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.021	0.35	0.021	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
Carbazole	**3.0**	0.35	0.023	mg/kg dry	1	"	"	"	"	
Chrysene	**7.8**	0.35	0.035	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	**0.80**	0.35	0.036	mg/kg dry	1	"	"	"	"	
Dibenzofuran	**2.1**	0.35	0.020	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.016	0.35	0.016	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.019	0.35	0.019	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	**0.19**	0.35	0.039	mg/kg dry	1	"	"	"	"	J
Di-n-octyl phthalate	<0.026	0.35	0.026	mg/kg dry	1	"	"	"	"	
Fluoranthene	**26**	3.5	0.25	mg/kg dry	10	"	"	09/09/09	"	
Fluorene	**3.8**	0.35	0.019	mg/kg dry	1	"	"	09/04/09	"	
Hexachlorobenzene	<0.017	0.35	0.017	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.035	0.35	0.035	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.043	0.35	0.043	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.029	0.35	0.029	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	**2.9**	0.35	0.034	mg/kg dry	1	"	"	"	"	
Isophorone	<0.018	0.35	0.018	mg/kg dry	1	"	"	"	"	
Naphthalene	**1.3**	0.35	0.031	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.032	0.35	0.032	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.034	0.35	0.034	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.026	0.35	0.026	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.019	0.35	0.019	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.10	0.71	0.10	mg/kg dry	1	"	"	"	"	
Phenanthrene	**29**	3.5	0.20	mg/kg dry	10	"	"	09/09/09	"	
Phenol	<0.060	0.71	0.060	mg/kg dry	1	"	"	09/04/09	"	
Pyrene	**20**	3.5	0.24	mg/kg dry	10	"	"	09/09/09	"	
Surrogate: 2,4,6-Tribromophenol	*88.7*			*47.2-108 %*		"	"	*09/04/09*	"	
Surrogate: 2-Fluorobiphenyl	*63.1*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*67.7*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*69.3*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*71.9*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*68.4*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07			
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300		Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS12-0.5' (0903873-03) Soil Sampled: 08/31/09 10:35 Received: 09/01/09 10:45										
1,2,4-Trichlorobenzene	<0.033	0.41	0.033	mg/kg dry	1	B9I0210	09/02/09	09/04/09	EPA 8270C	
1,2-Dichlorobenzene	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.025	0.41	0.025	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.030	0.41	0.030	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.047	0.83	0.047	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.030	0.83	0.030	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.043	0.83	0.043	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.043	0.83	0.043	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.83	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.072	0.83	0.072	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.026	0.41	0.026	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.053	0.83	0.053	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.023	0.41	0.023	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.023	0.41	0.023	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.047	0.83	0.047	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	**0.14**	0.41	0.035	mg/kg dry	1	"	"	"	"	J
2-Methylphenol	<0.043	0.83	0.043	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.025	0.41	0.025	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.044	0.83	0.044	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.48	2.0	0.48	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.041	0.41	0.041	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.091	0.83	0.091	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.021	0.41	0.021	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.049	0.83	0.049	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.14	0.83	0.14	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.033	0.83	0.033	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.83	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	**0.39**	0.41	0.035	mg/kg dry	1	"	"	"	"	J
Acenaphthylene	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
Aniline	<0.11	0.83	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	**0.72**	0.41	0.031	mg/kg dry	1	"	"	"	"	
Benzidine	<0.89	3.1	0.89	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	**1.5**	0.41	0.033	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	**1.2**	0.41	0.033	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	**1.5**	0.41	0.042	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	**0.60**	0.41	0.037	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07			
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300		Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS12-0.5' (0903873-03) Soil Sampled: 08/31/09 10:35 Received: 09/01/09 10:45										
Benzo (k) fluoranthene	**0.68**	0.41	0.038	mg/kg dry	1	B9I0210	09/02/09	09/04/09	EPA 8270C	
Benzoic acid	<0.072	0.41	0.072	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.15	0.83	0.15	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.026	0.41	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.030	0.41	0.030	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.027	0.41	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.025	0.41	0.025	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.026	0.41	0.026	mg/kg dry	1	"	"	"	"	
Carbazole	**0.31**	0.41	0.027	mg/kg dry	1	"	"	"	"	J
Chrysene	**1.5**	0.41	0.041	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	**0.20**	0.41	0.042	mg/kg dry	1	"	"	"	"	J
Dibenzofuran	**0.24**	0.41	0.023	mg/kg dry	1	"	"	"	"	J
Diethyl phthalate	<0.019	0.41	0.019	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.022	0.41	0.022	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.046	0.41	0.046	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
Fluoranthene	**3.2**	0.41	0.030	mg/kg dry	1	"	"	"	"	
Fluorene	**0.48**	0.41	0.022	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.020	0.41	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.041	0.41	0.041	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.051	0.41	0.051	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.035	0.41	0.035	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	**0.70**	0.41	0.040	mg/kg dry	1	"	"	"	"	
Isophorone	<0.021	0.41	0.021	mg/kg dry	1	"	"	"	"	
Naphthalene	**0.23**	0.41	0.036	mg/kg dry	1	"	"	"	"	J
Nitrobenzene	<0.037	0.41	0.037	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.040	0.41	0.040	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.022	0.41	0.022	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.12	0.83	0.12	mg/kg dry	1	"	"	"	"	
Phenanthrene	**2.8**	0.41	0.023	mg/kg dry	1	"	"	"	"	
Phenol	<0.070	0.83	0.070	mg/kg dry	1	"	"	"	"	
Pyrene	**2.8**	0.41	0.028	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*86.7*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*65.0*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*60.6*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*68.5*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*70.0*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*69.3*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS1-0.5' (0903873-04) Soil Sampled: 08/31/09 10:50 Received: 09/01/09 10:45										
1,2,4-Trichlorobenzene	<0.066	0.80	0.066	mg/kg dry	2	B9I0210	09/02/09	09/04/09	EPA 8270C	
1,2-Dichlorobenzene	<0.061	0.80	0.061	mg/kg dry	2	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.049	0.80	0.049	mg/kg dry	2	"	"	"	"	
1,3-Dichlorobenzene	<0.056	0.80	0.056	mg/kg dry	2	"	"	"	"	
1,4-Dichlorobenzene	<0.059	0.80	0.059	mg/kg dry	2	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.093	1.6	0.093	mg/kg dry	2	"	"	"	"	
2,4,5-Trichlorophenol	<0.059	1.6	0.059	mg/kg dry	2	"	"	"	"	
2,4,6-Trichlorophenol	<0.085	1.6	0.085	mg/kg dry	2	"	"	"	"	
2,4-Dichlorophenol	<0.085	1.6	0.085	mg/kg dry	2	"	"	"	"	
2,4-Dimethylphenol	<0.22	1.6	0.22	mg/kg dry	2	"	"	"	"	
2,4-Dinitrophenol	<0.14	1.6	0.14	mg/kg dry	2	"	"	"	"	
2,4-Dinitrotoluene	<0.051	0.80	0.051	mg/kg dry	2	"	"	"	"	
2,6-Dichlorophenol	<0.10	1.6	0.10	mg/kg dry	2	"	"	"	"	
2,6-Dinitrotoluene	<0.046	0.80	0.046	mg/kg dry	2	"	"	"	"	
2-Chloronaphthalene	<0.046	0.80	0.046	mg/kg dry	2	"	"	"	"	
2-Chlorophenol	<0.093	1.6	0.093	mg/kg dry	2	"	"	"	"	
2-Methylnaphthalene	**2.2**	0.80	0.068	mg/kg dry	2	"	"	"	"	
2-Methylphenol	<0.085	1.6	0.085	mg/kg dry	2	"	"	"	"	
2-Nitroaniline	<0.049	0.80	0.049	mg/kg dry	2	"	"	"	"	
2-Nitrophenol	<0.088	1.6	0.088	mg/kg dry	2	"	"	"	"	
3,3´-Dichlorobenzidine	<0.95	3.9	0.95	mg/kg dry	2	"	"	"	"	
3-Nitroaniline	<0.080	0.80	0.080	mg/kg dry	2	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.18	1.6	0.18	mg/kg dry	2	"	"	"	"	
4-Bromophenyl phenyl ether	<0.041	0.80	0.041	mg/kg dry	2	"	"	"	"	
4-Chloro-3-methylphenol	<0.098	1.6	0.098	mg/kg dry	2	"	"	"	"	
4-Chloroaniline	<0.27	1.6	0.27	mg/kg dry	2	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.056	0.80	0.056	mg/kg dry	2	"	"	"	"	
4-Methylphenol	**0.12**	1.6	0.066	mg/kg dry	2	"	"	"	"	J
4-Nitroaniline	<0.056	0.80	0.056	mg/kg dry	2	"	"	"	"	
4-Nitrophenol	<0.24	1.6	0.24	mg/kg dry	2	"	"	"	"	
Acenaphthene	**10**	0.80	0.068	mg/kg dry	2	"	"	"	"	
Acenaphthylene	<0.056	0.80	0.056	mg/kg dry	2	"	"	"	"	
Aniline	<0.22	1.6	0.22	mg/kg dry	2	"	"	"	"	
Anthracene	**16**	0.80	0.061	mg/kg dry	2	"	"	"	"	
Benzidine	<1.8	6.1	1.8	mg/kg dry	2	"	"	"	"	
Benzo (a) anthracene	**16**	0.80	0.066	mg/kg dry	2	"	"	"	"	
Benzo (a) pyrene	**11**	0.80	0.066	mg/kg dry	2	"	"	"	"	
Benzo (b) fluoranthene	**13**	0.80	0.083	mg/kg dry	2	"	"	"	"	
Benzo (g,h,i) perylene	**4.0**	0.80	0.073	mg/kg dry	2	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS1-0.5' (0903873-04) Soil Sampled: 08/31/09 10:50 Received: 09/01/09 10:45										
Benzo (k) fluoranthene	**5.6**	0.80	0.076	mg/kg dry	2	B9I0210	09/02/09	09/04/09	EPA 8270C	
Benzoic acid	<0.14	0.80	0.14	mg/kg dry	2	"	"	"	"	
Benzyl alcohol	<0.29	1.6	0.29	mg/kg dry	2	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.051	0.80	0.051	mg/kg dry	2	"	"	"	"	
Bis(2-chloroethyl)ether	<0.059	0.80	0.059	mg/kg dry	2	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.054	0.80	0.054	mg/kg dry	2	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.049	0.80	0.049	mg/kg dry	2	"	"	"	"	
Butyl benzyl phthalate	<0.051	0.80	0.051	mg/kg dry	2	"	"	"	"	
Carbazole	**7.9**	0.80	0.054	mg/kg dry	2	"	"	"	"	
Chrysene	**15**	0.80	0.080	mg/kg dry	2	"	"	"	"	
Dibenz (a,h) anthracene	**1.7**	0.80	0.083	mg/kg dry	2	"	"	"	"	
Dibenzofuran	**5.9**	0.80	0.046	mg/kg dry	2	"	"	"	"	
Diethyl phthalate	<0.037	0.80	0.037	mg/kg dry	2	"	"	"	"	
Dimethyl phthalate	<0.044	0.80	0.044	mg/kg dry	2	"	"	"	"	
Di-n-butyl phthalate	**0.15**	0.80	0.090	mg/kg dry	2	"	"	"	"	J
Di-n-octyl phthalate	<0.061	0.80	0.061	mg/kg dry	2	"	"	"	"	
Fluoranthene	**40**	4.0	0.29	mg/kg dry	10	"	"	09/04/09	"	
Fluorene	**10**	0.80	0.044	mg/kg dry	2	"	"	09/04/09	"	
Hexachlorobenzene	<0.039	0.80	0.039	mg/kg dry	2	"	"	"	"	
Hexachlorobutadiene	<0.080	0.80	0.080	mg/kg dry	2	"	"	"	"	
Hexachlorocyclopentadiene	<0.10	0.80	0.10	mg/kg dry	2	"	"	"	"	
Hexachloroethane	<0.068	0.80	0.068	mg/kg dry	2	"	"	"	"	
Indeno (1,2,3-cd) pyrene	**5.4**	0.80	0.078	mg/kg dry	2	"	"	"	"	
Isophorone	<0.041	0.80	0.041	mg/kg dry	2	"	"	"	"	
Naphthalene	**3.0**	0.80	0.071	mg/kg dry	2	"	"	"	"	
Nitrobenzene	<0.073	0.80	0.073	mg/kg dry	2	"	"	"	"	
N-Nitrosodimethylamine	<0.078	0.80	0.078	mg/kg dry	2	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.061	0.80	0.061	mg/kg dry	2	"	"	"	"	
N-Nitrosodiphenylamine	<0.044	0.80	0.044	mg/kg dry	2	"	"	"	"	
Pentachlorophenol	<0.23	1.6	0.23	mg/kg dry	2	"	"	"	"	
Phenanthrene	**53**	4.0	0.23	mg/kg dry	10	"	"	09/04/09	"	
Phenol	<0.14	1.6	0.14	mg/kg dry	2	"	"	09/04/09	"	
Pyrene	**32**	4.0	0.28	mg/kg dry	10	"	"	09/04/09	"	
Surrogate: 2,4,6-Tribromophenol	*75.4*			*47.2-108 %*		"	"	*09/04/09*	"	
Surrogate: 2-Fluorobiphenyl	*59.5*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*55.8*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*62.6*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*63.1*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*63.5*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS18-0.5' (0903873-05) Soil Sampled: 08/31/09 11:15 Received: 09/01/09 10:45										
1,2,4-Trichlorobenzene	<0.062	0.76	0.062	mg/kg dry	2	B9I0210	09/02/09	09/04/09	EPA 8270C	
1,2-Dichlorobenzene	<0.057	0.76	0.057	mg/kg dry	2	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.046	0.76	0.046	mg/kg dry	2	"	"	"	"	
1,3-Dichlorobenzene	<0.053	0.76	0.053	mg/kg dry	2	"	"	"	"	
1,4-Dichlorobenzene	<0.055	0.76	0.055	mg/kg dry	2	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.087	1.5	0.087	mg/kg dry	2	"	"	"	"	
2,4,5-Trichlorophenol	<0.055	1.5	0.055	mg/kg dry	2	"	"	"	"	
2,4,6-Trichlorophenol	<0.080	1.5	0.080	mg/kg dry	2	"	"	"	"	
2,4-Dichlorophenol	<0.080	1.5	0.080	mg/kg dry	2	"	"	"	"	
2,4-Dimethylphenol	<0.21	1.5	0.21	mg/kg dry	2	"	"	"	"	
2,4-Dinitrophenol	<0.13	1.5	0.13	mg/kg dry	2	"	"	"	"	
2,4-Dinitrotoluene	<0.048	0.76	0.048	mg/kg dry	2	"	"	"	"	
2,6-Dichlorophenol	<0.099	1.5	0.099	mg/kg dry	2	"	"	"	"	
2,6-Dinitrotoluene	<0.044	0.76	0.044	mg/kg dry	2	"	"	"	"	
2-Chloronaphthalene	<0.044	0.76	0.044	mg/kg dry	2	"	"	"	"	
2-Chlorophenol	<0.087	1.5	0.087	mg/kg dry	2	"	"	"	"	
2-Methylnaphthalene	**0.24**	0.76	0.064	mg/kg dry	2	"	"	"	"	J
2-Methylphenol	<0.080	1.5	0.080	mg/kg dry	2	"	"	"	"	
2-Nitroaniline	<0.046	0.76	0.046	mg/kg dry	2	"	"	"	"	
2-Nitrophenol	<0.083	1.5	0.083	mg/kg dry	2	"	"	"	"	
3,3´-Dichlorobenzidine	<0.90	3.7	0.90	mg/kg dry	2	"	"	"	"	
3-Nitroaniline	<0.076	0.76	0.076	mg/kg dry	2	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.17	1.5	0.17	mg/kg dry	2	"	"	"	"	
4-Bromophenyl phenyl ether	<0.039	0.76	0.039	mg/kg dry	2	"	"	"	"	
4-Chloro-3-methylphenol	<0.092	1.5	0.092	mg/kg dry	2	"	"	"	"	
4-Chloroaniline	<0.25	1.5	0.25	mg/kg dry	2	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.053	0.76	0.053	mg/kg dry	2	"	"	"	"	
4-Methylphenol	<0.062	1.5	0.062	mg/kg dry	2	"	"	"	"	
4-Nitroaniline	<0.053	0.76	0.053	mg/kg dry	2	"	"	"	"	
4-Nitrophenol	<0.23	1.5	0.23	mg/kg dry	2	"	"	"	"	
Acenaphthene	**1.1**	0.76	0.064	mg/kg dry	2	"	"	"	"	
Acenaphthylene	<0.053	0.76	0.053	mg/kg dry	2	"	"	"	"	
Aniline	<0.21	1.5	0.21	mg/kg dry	2	"	"	"	"	
Anthracene	**2.7**	0.76	0.057	mg/kg dry	2	"	"	"	"	
Benzidine	<1.7	5.7	1.7	mg/kg dry	2	"	"	"	"	
Benzo (a) anthracene	**7.5**	0.76	0.062	mg/kg dry	2	"	"	"	"	
Benzo (a) pyrene	**6.3**	0.76	0.062	mg/kg dry	2	"	"	"	"	
Benzo (b) fluoranthene	**8.4**	0.76	0.078	mg/kg dry	2	"	"	"	"	
Benzo (g,h,i) perylene	**3.1**	0.76	0.069	mg/kg dry	2	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS18-0.5' (0903873-05) Soil Sampled: 08/31/09 11:15 Received: 09/01/09 10:45										
Benzo (k) fluoranthene	**3.3**	0.76	0.071	mg/kg dry	2	B9I0210	09/02/09	09/04/09	EPA 8270C	
Benzoic acid	<0.13	0.76	0.13	mg/kg dry	2	"	"	"	"	
Benzyl alcohol	<0.28	1.5	0.28	mg/kg dry	2	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.048	0.76	0.048	mg/kg dry	2	"	"	"	"	
Bis(2-chloroethyl)ether	<0.055	0.76	0.055	mg/kg dry	2	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.051	0.76	0.051	mg/kg dry	2	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.046	0.76	0.046	mg/kg dry	2	"	"	"	"	
Butyl benzyl phthalate	<0.048	0.76	0.048	mg/kg dry	2	"	"	"	"	
Carbazole	**1.2**	0.76	0.051	mg/kg dry	2	"	"	"	"	
Chrysene	**8.4**	0.76	0.076	mg/kg dry	2	"	"	"	"	
Dibenz (a,h) anthracene	**1.1**	0.76	0.078	mg/kg dry	2	"	"	"	"	
Dibenzofuran	**0.62**	0.76	0.044	mg/kg dry	2	"	"	"	"	J
Diethyl phthalate	<0.034	0.76	0.034	mg/kg dry	2	"	"	"	"	
Dimethyl phthalate	<0.041	0.76	0.041	mg/kg dry	2	"	"	"	"	
Di-n-butyl phthalate	<0.085	0.76	0.085	mg/kg dry	2	"	"	"	"	
Di-n-octyl phthalate	<0.057	0.76	0.057	mg/kg dry	2	"	"	"	"	
Fluoranthene	**15**	0.76	0.055	mg/kg dry	2	"	"	"	"	
Fluorene	**1.3**	0.76	0.041	mg/kg dry	2	"	"	"	"	
Hexachlorobenzene	<0.037	0.76	0.037	mg/kg dry	2	"	"	"	"	
Hexachlorobutadiene	<0.076	0.76	0.076	mg/kg dry	2	"	"	"	"	
Hexachlorocyclopentadiene	<0.094	0.76	0.094	mg/kg dry	2	"	"	"	"	
Hexachloroethane	<0.064	0.76	0.064	mg/kg dry	2	"	"	"	"	
Indeno (1,2,3-cd) pyrene	**3.8**	0.76	0.074	mg/kg dry	2	"	"	"	"	
Isophorone	<0.039	0.76	0.039	mg/kg dry	2	"	"	"	"	
Naphthalene	**0.36**	0.76	0.067	mg/kg dry	2	"	"	"	"	J
Nitrobenzene	<0.069	0.76	0.069	mg/kg dry	2	"	"	"	"	
N-Nitrosodimethylamine	<0.074	0.76	0.074	mg/kg dry	2	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.057	0.76	0.057	mg/kg dry	2	"	"	"	"	
N-Nitrosodiphenylamine	<0.041	0.76	0.041	mg/kg dry	2	"	"	"	"	
Pentachlorophenol	<0.22	1.5	0.22	mg/kg dry	2	"	"	"	"	
Phenanthrene	**11**	0.76	0.044	mg/kg dry	2	"	"	"	"	
Phenol	<0.13	1.5	0.13	mg/kg dry	2	"	"	"	"	
Pyrene	**13**	0.76	0.053	mg/kg dry	2	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*89.9*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*69.1*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*62.2*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*70.9*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*71.6*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*73.2*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS20-0.5' (0903873-06) Soil Sampled: 08/31/09 11:25 Received: 09/01/09 10:45										
1,2,4-Trichlorobenzene	<0.15	1.9	0.15	mg/kg dry	5	B9I0210	09/02/09	09/04/09	EPA 8270C	
1,2-Dichlorobenzene	<0.14	1.9	0.14	mg/kg dry	5	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.11	1.9	0.11	mg/kg dry	5	"	"	"	"	
1,3-Dichlorobenzene	<0.13	1.9	0.13	mg/kg dry	5	"	"	"	"	
1,4-Dichlorobenzene	<0.14	1.9	0.14	mg/kg dry	5	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.22	3.8	0.22	mg/kg dry	5	"	"	"	"	
2,4,5-Trichlorophenol	<0.14	3.8	0.14	mg/kg dry	5	"	"	"	"	
2,4,6-Trichlorophenol	<0.20	3.8	0.20	mg/kg dry	5	"	"	"	"	
2,4-Dichlorophenol	<0.20	3.8	0.20	mg/kg dry	5	"	"	"	"	
2,4-Dimethylphenol	<0.51	3.8	0.51	mg/kg dry	5	"	"	"	"	
2,4-Dinitrophenol	<0.33	3.8	0.33	mg/kg dry	5	"	"	"	"	
2,4-Dinitrotoluene	<0.12	1.9	0.12	mg/kg dry	5	"	"	"	"	
2,6-Dichlorophenol	<0.24	3.8	0.24	mg/kg dry	5	"	"	"	"	
2,6-Dinitrotoluene	<0.11	1.9	0.11	mg/kg dry	5	"	"	"	"	
2-Chloronaphthalene	<0.11	1.9	0.11	mg/kg dry	5	"	"	"	"	
2-Chlorophenol	<0.22	3.8	0.22	mg/kg dry	5	"	"	"	"	
2-Methylnaphthalene	**4.9**	1.9	0.16	mg/kg dry	5	"	"	"	"	
2-Methylphenol	<0.20	3.8	0.20	mg/kg dry	5	"	"	"	"	
2-Nitroaniline	<0.11	1.9	0.11	mg/kg dry	5	"	"	"	"	
2-Nitrophenol	<0.20	3.8	0.20	mg/kg dry	5	"	"	"	"	
3,3´-Dichlorobenzidine	<2.2	9.1	2.2	mg/kg dry	5	"	"	"	"	
3-Nitroaniline	<0.19	1.9	0.19	mg/kg dry	5	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.42	3.8	0.42	mg/kg dry	5	"	"	"	"	
4-Bromophenyl phenyl ether	<0.097	1.9	0.097	mg/kg dry	5	"	"	"	"	
4-Chloro-3-methylphenol	<0.23	3.8	0.23	mg/kg dry	5	"	"	"	"	
4-Chloroaniline	<0.62	3.8	0.62	mg/kg dry	5	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.13	1.9	0.13	mg/kg dry	5	"	"	"	"	
4-Methylphenol	<0.15	3.8	0.15	mg/kg dry	5	"	"	"	"	
4-Nitroaniline	<0.13	1.9	0.13	mg/kg dry	5	"	"	"	"	
4-Nitrophenol	<0.56	3.8	0.56	mg/kg dry	5	"	"	"	"	
Acenaphthene	**10**	1.9	0.16	mg/kg dry	5	"	"	"	"	
Acenaphthylene	**0.38**	1.9	0.13	mg/kg dry	5	"	"	"	"	J
Aniline	<0.51	3.8	0.51	mg/kg dry	5	"	"	"	"	
Anthracene	**19**	1.9	0.14	mg/kg dry	5	"	"	"	"	
Benzidine	<4.1	14	4.1	mg/kg dry	5	"	"	"	"	
Benzo (a) anthracene	**51**	1.9	0.15	mg/kg dry	5	"	"	"	"	
Benzo (a) pyrene	**43**	1.9	0.15	mg/kg dry	5	"	"	"	"	
Benzo (b) fluoranthene	**65**	9.4	0.97	mg/kg dry	25	"	"	09/04/09	"	
Benzo (g,h,i) perylene	**18**	1.9	0.17	mg/kg dry	5	"	"	09/04/09	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS20-0.5' (0903873-06) Soil Sampled: 08/31/09 11:25 Received: 09/01/09 10:45										
Benzo (k) fluoranthene	**20**	1.9	0.18	mg/kg dry	5	B9I0210	09/02/09	09/04/09	EPA 8270C	
Benzoic acid	<0.33	1.9	0.33	mg/kg dry	5	"	"	"	"	
Benzyl alcohol	<0.68	3.8	0.68	mg/kg dry	5	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.12	1.9	0.12	mg/kg dry	5	"	"	"	"	
Bis(2-chloroethyl)ether	<0.14	1.9	0.14	mg/kg dry	5	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.12	1.9	0.12	mg/kg dry	5	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.11	1.9	0.11	mg/kg dry	5	"	"	"	"	
Butyl benzyl phthalate	<0.12	1.9	0.12	mg/kg dry	5	"	"	"	"	
Carbazole	**12**	1.9	0.12	mg/kg dry	5	"	"	"	"	
Chrysene	**64**	9.4	0.94	mg/kg dry	25	"	"	09/04/09	"	
Dibenz (a,h) anthracene	**7.2**	1.9	0.19	mg/kg dry	5	"	"	09/04/09	"	
Dibenzofuran	**7.6**	1.9	0.11	mg/kg dry	5	"	"	"	"	
Diethyl phthalate	<0.085	1.9	0.085	mg/kg dry	5	"	"	"	"	
Dimethyl phthalate	<0.10	1.9	0.10	mg/kg dry	5	"	"	"	"	
Di-n-butyl phthalate	<0.21	1.9	0.21	mg/kg dry	5	"	"	"	"	
Di-n-octyl phthalate	<0.14	1.9	0.14	mg/kg dry	5	"	"	"	"	
Fluoranthene	**130**	9.4	0.68	mg/kg dry	25	"	"	09/04/09	"	
Fluorene	**12**	1.9	0.10	mg/kg dry	5	"	"	09/04/09	"	
Hexachlorobenzene	<0.091	1.9	0.091	mg/kg dry	5	"	"	"	"	
Hexachlorobutadiene	<0.19	1.9	0.19	mg/kg dry	5	"	"	"	"	
Hexachlorocyclopentadiene	<0.23	1.9	0.23	mg/kg dry	5	"	"	"	"	
Hexachloroethane	<0.16	1.9	0.16	mg/kg dry	5	"	"	"	"	
Indeno (1,2,3-cd) pyrene	**25**	1.9	0.18	mg/kg dry	5	"	"	"	"	
Isophorone	<0.097	1.9	0.097	mg/kg dry	5	"	"	"	"	
Naphthalene	**12**	1.9	0.16	mg/kg dry	5	"	"	"	"	
Nitrobenzene	<0.17	1.9	0.17	mg/kg dry	5	"	"	"	"	
N-Nitrosodimethylamine	<0.18	1.9	0.18	mg/kg dry	5	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.14	1.9	0.14	mg/kg dry	5	"	"	"	"	
N-Nitrosodiphenylamine	<0.10	1.9	0.10	mg/kg dry	5	"	"	"	"	
Pentachlorophenol	<0.55	3.8	0.55	mg/kg dry	5	"	"	"	"	
Phenanthrene	**100**	9.4	0.54	mg/kg dry	25	"	"	09/04/09	"	
Phenol	<0.32	3.8	0.32	mg/kg dry	5	"	"	09/04/09	"	
Pyrene	**110**	9.4	0.65	mg/kg dry	25	"	"	09/04/09	"	
Surrogate: 2,4,6-Tribromophenol	*71.6*			*47.2-108 %*		"	"	*09/04/09*	"	
Surrogate: 2-Fluorobiphenyl	*67.9*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*60.2*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*69.1*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*69.1*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*66.3*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS16-0.5' (0903873-07) Soil Sampled: 08/31/09 11:35 Received: 09/01/09 10:45										
1,2,4-Trichlorobenzene	<0.060	0.73	0.060	mg/kg dry	2	B9I0210	09/02/09	09/04/09	EPA 8270C	
1,2-Dichlorobenzene	<0.056	0.73	0.056	mg/kg dry	2	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.044	0.73	0.044	mg/kg dry	2	"	"	"	"	
1,3-Dichlorobenzene	<0.051	0.73	0.051	mg/kg dry	2	"	"	"	"	
1,4-Dichlorobenzene	<0.053	0.73	0.053	mg/kg dry	2	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.084	1.5	0.084	mg/kg dry	2	"	"	"	"	
2,4,5-Trichlorophenol	<0.053	1.5	0.053	mg/kg dry	2	"	"	"	"	
2,4,6-Trichlorophenol	<0.078	1.5	0.078	mg/kg dry	2	"	"	"	"	
2,4-Dichlorophenol	<0.078	1.5	0.078	mg/kg dry	2	"	"	"	"	
2,4-Dimethylphenol	<0.20	1.5	0.20	mg/kg dry	2	"	"	"	"	
2,4-Dinitrophenol	<0.13	1.5	0.13	mg/kg dry	2	"	"	"	"	
2,4-Dinitrotoluene	<0.047	0.73	0.047	mg/kg dry	2	"	"	"	"	
2,6-Dichlorophenol	<0.096	1.5	0.096	mg/kg dry	2	"	"	"	"	
2,6-Dinitrotoluene	<0.042	0.73	0.042	mg/kg dry	2	"	"	"	"	
2-Chloronaphthalene	<0.042	0.73	0.042	mg/kg dry	2	"	"	"	"	
2-Chlorophenol	<0.084	1.5	0.084	mg/kg dry	2	"	"	"	"	
2-Methylnaphthalene	**0.17**	0.73	0.062	mg/kg dry	2	"	"	"	"	J
2-Methylphenol	<0.078	1.5	0.078	mg/kg dry	2	"	"	"	"	
2-Nitroaniline	<0.044	0.73	0.044	mg/kg dry	2	"	"	"	"	
2-Nitrophenol	<0.080	1.5	0.080	mg/kg dry	2	"	"	"	"	
3,3´-Dichlorobenzidine	<0.87	3.6	0.87	mg/kg dry	2	"	"	"	"	
3-Nitroaniline	<0.073	0.73	0.073	mg/kg dry	2	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.16	1.5	0.16	mg/kg dry	2	"	"	"	"	
4-Bromophenyl phenyl ether	<0.038	0.73	0.038	mg/kg dry	2	"	"	"	"	
4-Chloro-3-methylphenol	<0.089	1.5	0.089	mg/kg dry	2	"	"	"	"	
4-Chloroaniline	<0.24	1.5	0.24	mg/kg dry	2	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.051	0.73	0.051	mg/kg dry	2	"	"	"	"	
4-Methylphenol	<0.060	1.5	0.060	mg/kg dry	2	"	"	"	"	
4-Nitroaniline	<0.051	0.73	0.051	mg/kg dry	2	"	"	"	"	
4-Nitrophenol	<0.22	1.5	0.22	mg/kg dry	2	"	"	"	"	
Acenaphthene	**0.69**	0.73	0.062	mg/kg dry	2	"	"	"	"	J
Acenaphthylene	<0.051	0.73	0.051	mg/kg dry	2	"	"	"	"	
Aniline	<0.20	1.5	0.20	mg/kg dry	2	"	"	"	"	
Anthracene	**1.5**	0.73	0.056	mg/kg dry	2	"	"	"	"	
Benzidine	<1.6	5.6	1.6	mg/kg dry	2	"	"	"	"	
Benzo (a) anthracene	**3.3**	0.73	0.060	mg/kg dry	2	"	"	"	"	
Benzo (a) pyrene	**2.8**	0.73	0.060	mg/kg dry	2	"	"	"	"	
Benzo (b) fluoranthene	**3.8**	0.73	0.076	mg/kg dry	2	"	"	"	"	
Benzo (g,h,i) perylene	**1.2**	0.73	0.067	mg/kg dry	2	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS16-0.5' (0903873-07) Soil Sampled: 08/31/09 11:35 Received: 09/01/09 10:45										
Benzo (k) fluoranthene	**1.6**	0.73	0.069	mg/kg dry	2	B9I0210	09/02/09	09/04/09	EPA 8270C	
Benzoic acid	<0.13	0.73	0.13	mg/kg dry	2	"	"	"	"	
Benzyl alcohol	<0.27	1.5	0.27	mg/kg dry	2	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.047	0.73	0.047	mg/kg dry	2	"	"	"	"	
Bis(2-chloroethyl)ether	<0.053	0.73	0.053	mg/kg dry	2	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.049	0.73	0.049	mg/kg dry	2	"	"	"	"	
Bis(2-ethylhexyl)phthalate	**0.37**	0.73	0.044	mg/kg dry	2	"	"	"	"	J
Butyl benzyl phthalate	<0.047	0.73	0.047	mg/kg dry	2	"	"	"	"	
Carbazole	**0.63**	0.73	0.049	mg/kg dry	2	"	"	"	"	J
Chrysene	**3.6**	0.73	0.073	mg/kg dry	2	"	"	"	"	
Dibenz (a,h) anthracene	**0.42**	0.73	0.076	mg/kg dry	2	"	"	"	"	J
Dibenzofuran	**0.40**	0.73	0.042	mg/kg dry	2	"	"	"	"	J
Diethyl phthalate	<0.033	0.73	0.033	mg/kg dry	2	"	"	"	"	
Dimethyl phthalate	<0.040	0.73	0.040	mg/kg dry	2	"	"	"	"	
Di-n-butyl phthalate	<0.082	0.73	0.082	mg/kg dry	2	"	"	"	"	
Di-n-octyl phthalate	<0.056	0.73	0.056	mg/kg dry	2	"	"	"	"	
Fluoranthene	**7.7**	0.73	0.053	mg/kg dry	2	"	"	"	"	
Fluorene	**0.80**	0.73	0.040	mg/kg dry	2	"	"	"	"	
Hexachlorobenzene	<0.036	0.73	0.036	mg/kg dry	2	"	"	"	"	
Hexachlorobutadiene	<0.073	0.73	0.073	mg/kg dry	2	"	"	"	"	
Hexachlorocyclopentadiene	<0.091	0.73	0.091	mg/kg dry	2	"	"	"	"	
Hexachloroethane	<0.062	0.73	0.062	mg/kg dry	2	"	"	"	"	
Indeno (1,2,3-cd) pyrene	**1.5**	0.73	0.071	mg/kg dry	2	"	"	"	"	
Isophorone	<0.038	0.73	0.038	mg/kg dry	2	"	"	"	"	
Naphthalene	**0.27**	0.73	0.064	mg/kg dry	2	"	"	"	"	J
Nitrobenzene	<0.067	0.73	0.067	mg/kg dry	2	"	"	"	"	
N-Nitrosodimethylamine	<0.071	0.73	0.071	mg/kg dry	2	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.056	0.73	0.056	mg/kg dry	2	"	"	"	"	
N-Nitrosodiphenylamine	<0.040	0.73	0.040	mg/kg dry	2	"	"	"	"	
Pentachlorophenol	<0.21	1.5	0.21	mg/kg dry	2	"	"	"	"	
Phenanthrene	**6.2**	0.73	0.042	mg/kg dry	2	"	"	"	"	
Phenol	<0.13	1.5	0.13	mg/kg dry	2	"	"	"	"	
Pyrene	**6.2**	0.73	0.051	mg/kg dry	2	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*85.4*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*69.5*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*61.5*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*70.9*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*70.8*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*67.4*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS4-0.5' (0903873-08) Soil Sampled: 08/31/09 11:45 Received: 09/01/09 10:45										
1,2,4-Trichlorobenzene	<0.032	0.39	0.032	mg/kg dry	1	B9I0210	09/02/09	09/03/09	EPA 8270C	
1,2-Dichlorobenzene	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.028	0.39	0.028	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.045	0.79	0.045	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.028	0.79	0.028	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.041	0.79	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.041	0.79	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.79	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.068	0.79	0.068	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.051	0.79	0.051	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.39	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.39	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.045	0.79	0.045	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.041	0.79	0.041	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.042	0.79	0.042	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.46	1.9	0.46	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.087	0.79	0.087	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.39	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.047	0.79	0.047	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.79	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.032	0.79	0.032	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.79	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
Aniline	<0.11	0.79	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
Benzidine	<0.85	2.9	0.85	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	**0.048**	0.39	0.032	mg/kg dry	1	"	"	"	"	J
Benzo (a) pyrene	**0.036**	0.39	0.032	mg/kg dry	1	"	"	"	"	J
Benzo (b) fluoranthene	**0.056**	0.39	0.040	mg/kg dry	1	"	"	"	"	J
Benzo (g,h,i) perylene	<0.035	0.39	0.035	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07			
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300		Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS4-0.5' (0903873-08) Soil Sampled: 08/31/09 11:45 Received: 09/01/09 10:45										
Benzo (k) fluoranthene	<0.036	0.39	0.036	mg/kg dry	1	B9I0210	09/02/09	09/03/09	EPA 8270C	
Benzoic acid	<0.068	0.39	0.068	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.79	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.028	0.39	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.026	0.39	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
Carbazole	<0.026	0.39	0.026	mg/kg dry	1	"	"	"	"	
Chrysene	**0.049**	0.39	0.039	mg/kg dry	1	"	"	"	"	J
Dibenz (a,h) anthracene	<0.040	0.39	0.040	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.022	0.39	0.022	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.018	0.39	0.018	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.044	0.39	0.044	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
Fluoranthene	**0.083**	0.39	0.028	mg/kg dry	1	"	"	"	"	J
Fluorene	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.019	0.39	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.048	0.39	0.048	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.038	0.39	0.038	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.39	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.034	0.39	0.034	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.035	0.39	0.035	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.038	0.39	0.038	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.79	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.022	0.39	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.067	0.79	0.067	mg/kg dry	1	"	"	"	"	
Pyrene	**0.067**	0.39	0.027	mg/kg dry	1	"	"	"	"	J
Surrogate: 2,4,6-Tribromophenol	*85.2*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*64.7*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*62.0*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*69.4*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*68.0*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*63.3*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS22-0.5' (0903873-09) Soil Sampled: 08/31/09 12:45 Received: 09/01/09 10:45										
1,2,4-Trichlorobenzene	<0.066	0.80	0.066	mg/kg dry	2	B9I0210	09/02/09	09/04/09	EPA 8270C	
1,2-Dichlorobenzene	<0.061	0.80	0.061	mg/kg dry	2	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.049	0.80	0.049	mg/kg dry	2	"	"	"	"	
1,3-Dichlorobenzene	<0.056	0.80	0.056	mg/kg dry	2	"	"	"	"	
1,4-Dichlorobenzene	<0.059	0.80	0.059	mg/kg dry	2	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.093	1.6	0.093	mg/kg dry	2	"	"	"	"	
2,4,5-Trichlorophenol	<0.059	1.6	0.059	mg/kg dry	2	"	"	"	"	
2,4,6-Trichlorophenol	<0.085	1.6	0.085	mg/kg dry	2	"	"	"	"	
2,4-Dichlorophenol	<0.085	1.6	0.085	mg/kg dry	2	"	"	"	"	
2,4-Dimethylphenol	<0.22	1.6	0.22	mg/kg dry	2	"	"	"	"	
2,4-Dinitrophenol	<0.14	1.6	0.14	mg/kg dry	2	"	"	"	"	
2,4-Dinitrotoluene	<0.051	0.80	0.051	mg/kg dry	2	"	"	"	"	
2,6-Dichlorophenol	<0.10	1.6	0.10	mg/kg dry	2	"	"	"	"	
2,6-Dinitrotoluene	<0.046	0.80	0.046	mg/kg dry	2	"	"	"	"	
2-Chloronaphthalene	<0.046	0.80	0.046	mg/kg dry	2	"	"	"	"	
2-Chlorophenol	<0.093	1.6	0.093	mg/kg dry	2	"	"	"	"	
2-Methylnaphthalene	**0.85**	0.80	0.068	mg/kg dry	2	"	"	"	"	
2-Methylphenol	<0.085	1.6	0.085	mg/kg dry	2	"	"	"	"	
2-Nitroaniline	<0.049	0.80	0.049	mg/kg dry	2	"	"	"	"	
2-Nitrophenol	<0.088	1.6	0.088	mg/kg dry	2	"	"	"	"	
3,3´-Dichlorobenzidine	<0.95	3.9	0.95	mg/kg dry	2	"	"	"	"	
3-Nitroaniline	<0.080	0.80	0.080	mg/kg dry	2	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.18	1.6	0.18	mg/kg dry	2	"	"	"	"	
4-Bromophenyl phenyl ether	<0.041	0.80	0.041	mg/kg dry	2	"	"	"	"	
4-Chloro-3-methylphenol	<0.098	1.6	0.098	mg/kg dry	2	"	"	"	"	
4-Chloroaniline	<0.27	1.6	0.27	mg/kg dry	2	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.056	0.80	0.056	mg/kg dry	2	"	"	"	"	
4-Methylphenol	**0.15**	1.6	0.066	mg/kg dry	2	"	"	"	"	J
4-Nitroaniline	<0.056	0.80	0.056	mg/kg dry	2	"	"	"	"	
4-Nitrophenol	<0.24	1.6	0.24	mg/kg dry	2	"	"	"	"	
Acenaphthene	**4.1**	0.80	0.068	mg/kg dry	2	"	"	"	"	
Acenaphthylene	**0.12**	0.80	0.056	mg/kg dry	2	"	"	"	"	J
Aniline	<0.22	1.6	0.22	mg/kg dry	2	"	"	"	"	
Anthracene	**11**	0.80	0.061	mg/kg dry	2	"	"	"	"	
Benzidine	<1.8	6.1	1.8	mg/kg dry	2	"	"	"	"	
Benzo (a) anthracene	**24**	0.80	0.066	mg/kg dry	2	"	"	"	"	
Benzo (a) pyrene	**18**	0.80	0.066	mg/kg dry	2	"	"	"	"	
Benzo (b) fluoranthene	**28**	8.0	0.83	mg/kg dry	20	"	"	09/09/09	"	
Benzo (g,h,i) perylene	**6.8**	0.80	0.073	mg/kg dry	2	"	"	09/04/09	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS22-0.5' (0903873-09) Soil Sampled: 08/31/09 12:45 Received: 09/01/09 10:45										
Benzo (k) fluoranthene	**7.6**	0.80	0.076	mg/kg dry	2	B9I0210	09/02/09	09/04/09	EPA 8270C	
Benzoic acid	<0.14	0.80	0.14	mg/kg dry	2	"	"	"	"	
Benzyl alcohol	<0.29	1.6	0.29	mg/kg dry	2	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.051	0.80	0.051	mg/kg dry	2	"	"	"	"	
Bis(2-chloroethyl)ether	<0.059	0.80	0.059	mg/kg dry	2	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.054	0.80	0.054	mg/kg dry	2	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.049	0.80	0.049	mg/kg dry	2	"	"	"	"	
Butyl benzyl phthalate	<0.051	0.80	0.051	mg/kg dry	2	"	"	"	"	
Carbazole	**4.0**	0.80	0.054	mg/kg dry	2	"	"	"	"	
Chrysene	**24**	0.80	0.080	mg/kg dry	2	"	"	"	"	
Dibenz (a,h) anthracene	**2.9**	0.80	0.083	mg/kg dry	2	"	"	"	"	
Dibenzofuran	**2.5**	0.80	0.046	mg/kg dry	2	"	"	"	"	
Diethyl phthalate	<0.037	0.80	0.037	mg/kg dry	2	"	"	"	"	
Dimethyl phthalate	<0.044	0.80	0.044	mg/kg dry	2	"	"	"	"	
Di-n-butyl phthalate	**0.13**	0.80	0.090	mg/kg dry	2	"	"	"	"	J
Di-n-octyl phthalate	<0.061	0.80	0.061	mg/kg dry	2	"	"	"	"	
Fluoranthene	**62**	8.0	0.59	mg/kg dry	20	"	"	09/09/09	"	
Fluorene	**5.5**	0.80	0.044	mg/kg dry	2	"	"	09/04/09	"	
Hexachlorobenzene	<0.039	0.80	0.039	mg/kg dry	2	"	"	"	"	
Hexachlorobutadiene	<0.080	0.80	0.080	mg/kg dry	2	"	"	"	"	
Hexachlorocyclopentadiene	<0.10	0.80	0.10	mg/kg dry	2	"	"	"	"	
Hexachloroethane	<0.068	0.80	0.068	mg/kg dry	2	"	"	"	"	
Indeno (1,2,3-cd) pyrene	**9.4**	0.80	0.078	mg/kg dry	2	"	"	"	"	
Isophorone	<0.041	0.80	0.041	mg/kg dry	2	"	"	"	"	
Naphthalene	**1.3**	0.80	0.071	mg/kg dry	2	"	"	"	"	
Nitrobenzene	<0.073	0.80	0.073	mg/kg dry	2	"	"	"	"	
N-Nitrosodimethylamine	<0.078	0.80	0.078	mg/kg dry	2	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.061	0.80	0.061	mg/kg dry	2	"	"	"	"	
N-Nitrosodiphenylamine	<0.044	0.80	0.044	mg/kg dry	2	"	"	"	"	
Pentachlorophenol	<0.23	1.6	0.23	mg/kg dry	2	"	"	"	"	
Phenanthrene	**46**	8.0	0.46	mg/kg dry	20	"	"	09/09/09	"	
Phenol	<0.14	1.6	0.14	mg/kg dry	2	"	"	09/04/09	"	
Pyrene	**49**	8.0	0.56	mg/kg dry	20	"	"	09/09/09	"	
Surrogate: 2,4,6-Tribromophenol	*90.1*			*47.2-108 %*		"	"	*09/04/09*	"	
Surrogate: 2-Fluorobiphenyl	*73.9*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*63.9*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*76.9*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*76.2*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*79.0*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS26-0.5' (0903873-10) Soil Sampled: 08/31/09 12:55 Received: 09/01/09 10:45										
1,2,4-Trichlorobenzene	<0.033	0.40	0.033	mg/kg dry	1	B9I0210	09/02/09	09/09/09	EPA 8270C	
1,2-Dichlorobenzene	<0.030	0.40	0.030	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.024	0.40	0.024	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.029	0.40	0.029	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.046	0.82	0.046	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.029	0.82	0.029	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.043	0.82	0.043	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.043	0.82	0.043	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.82	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.071	0.82	0.071	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.026	0.40	0.026	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.052	0.82	0.052	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.023	0.40	0.023	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.023	0.40	0.023	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.046	0.82	0.046	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	**0.052**	0.40	0.034	mg/kg dry	1	"	"	"	"	J
2-Methylphenol	<0.043	0.82	0.043	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.024	0.40	0.024	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.044	0.82	0.044	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.48	2.0	0.48	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.040	0.40	0.040	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.090	0.82	0.090	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.021	0.40	0.021	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.049	0.82	0.049	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.82	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.033	0.82	0.033	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.82	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	**0.23**	0.40	0.034	mg/kg dry	1	"	"	"	"	J
Acenaphthylene	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
Aniline	<0.11	0.82	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	**0.66**	0.40	0.030	mg/kg dry	1	"	"	"	"	
Benzidine	<0.88	3.0	0.88	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	**1.3**	0.40	0.033	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	**1.0**	0.40	0.033	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	**1.4**	0.40	0.041	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	**0.51**	0.40	0.037	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS26-0.5' (0903873-10) Soil Sampled: 08/31/09 12:55 Received: 09/01/09 10:45										
Benzo (k) fluoranthene	**0.56**	0.40	0.038	mg/kg dry	1	B9I0210	09/02/09	09/09/09	EPA 8270C	
Benzoic acid	<0.071	0.40	0.071	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.15	0.82	0.15	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.026	0.40	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.029	0.40	0.029	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.027	0.40	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.024	0.40	0.024	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.026	0.40	0.026	mg/kg dry	1	"	"	"	"	
Carbazole	**0.27**	0.40	0.027	mg/kg dry	1	"	"	"	"	J
Chrysene	**1.3**	0.40	0.040	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	**0.17**	0.40	0.041	mg/kg dry	1	"	"	"	"	J
Dibenzofuran	**0.13**	0.40	0.023	mg/kg dry	1	"	"	"	"	J
Diethyl phthalate	<0.018	0.40	0.018	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.022	0.40	0.022	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.045	0.40	0.045	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.030	0.40	0.030	mg/kg dry	1	"	"	"	"	
Fluoranthene	**2.8**	0.40	0.029	mg/kg dry	1	"	"	"	"	
Fluorene	**0.29**	0.40	0.022	mg/kg dry	1	"	"	"	"	J
Hexachlorobenzene	<0.020	0.40	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.040	0.40	0.040	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.050	0.40	0.050	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.034	0.40	0.034	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	**0.61**	0.40	0.039	mg/kg dry	1	"	"	"	"	
Isophorone	<0.021	0.40	0.021	mg/kg dry	1	"	"	"	"	
Naphthalene	**0.087**	0.40	0.035	mg/kg dry	1	"	"	"	"	J
Nitrobenzene	<0.037	0.40	0.037	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.039	0.40	0.039	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.030	0.40	0.030	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.022	0.40	0.022	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.12	0.82	0.12	mg/kg dry	1	"	"	"	"	
Phenanthrene	**2.1**	0.40	0.023	mg/kg dry	1	"	"	"	"	
Phenol	<0.070	0.82	0.070	mg/kg dry	1	"	"	"	"	
Pyrene	**2.3**	0.40	0.028	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*65.3*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*55.6*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*47.2*			*48.5-90.1 %*		"	"	"	"	*S-AC*
Surrogate: Nitrobenzene-d5	*57.1*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*58.3*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*59.4*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS24-0.5' (0903873-11) Soil Sampled: 08/31/09 13:05 Received: 09/01/09 10:45										
1,2,4-Trichlorobenzene	<0.030	0.37	0.030	mg/kg dry	1	B9I0210	09/02/09	09/04/09	EPA 8270C	
1,2-Dichlorobenzene	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.022	0.37	0.022	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.027	0.37	0.027	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.042	0.74	0.042	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.027	0.74	0.027	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.039	0.74	0.039	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.039	0.74	0.039	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.74	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.064	0.74	0.064	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.023	0.37	0.023	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.048	0.74	0.048	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.042	0.74	0.042	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	**0.074**	0.37	0.031	mg/kg dry	1	"	"	"	"	J
2-Methylphenol	<0.039	0.74	0.039	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.022	0.37	0.022	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.040	0.74	0.040	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.43	1.8	0.43	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.037	0.37	0.037	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.082	0.74	0.082	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.019	0.37	0.019	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.044	0.74	0.044	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.12	0.74	0.12	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.030	0.74	0.030	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.74	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	**0.30**	0.37	0.031	mg/kg dry	1	"	"	"	"	J
Acenaphthylene	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.74	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	**0.74**	0.37	0.028	mg/kg dry	1	"	"	"	"	
Benzidine	<0.80	2.8	0.80	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	**2.5**	0.37	0.030	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	**2.3**	0.37	0.030	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	**3.3**	0.37	0.038	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	**0.92**	0.37	0.033	mg/kg dry	1	"	"	"	"	

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LEGEND Technical Services, Inc.
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88 Empire Drive
St Paul, MN 55103
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Barr Engineering Co.	Project:	23/19-0B05.07			
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300		Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS24-0.5' (0903873-11) Soil Sampled: 08/31/09 13:05 Received: 09/01/09 10:45										
Benzo (k) fluoranthene	**1.3**	0.37	0.034	mg/kg dry	1	B9I0210	09/02/09	09/04/09	EPA 8270C	
Benzoic acid	<0.064	0.37	0.064	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.13	0.74	0.13	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.023	0.37	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.027	0.37	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.024	0.37	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.022	0.37	0.022	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.023	0.37	0.023	mg/kg dry	1	"	"	"	"	
Carbazole	**0.52**	0.37	0.024	mg/kg dry	1	"	"	"	"	
Chrysene	**3.1**	0.37	0.037	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	**0.35**	0.37	0.038	mg/kg dry	1	"	"	"	"	J
Dibenzofuran	**0.18**	0.37	0.021	mg/kg dry	1	"	"	"	"	J
Diethyl phthalate	<0.017	0.37	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.020	0.37	0.020	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.041	0.37	0.041	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
Fluoranthene	**5.5**	0.37	0.027	mg/kg dry	1	"	"	"	"	
Fluorene	**0.33**	0.37	0.020	mg/kg dry	1	"	"	"	"	J
Hexachlorobenzene	<0.018	0.37	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.037	0.37	0.037	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.046	0.37	0.046	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.031	0.37	0.031	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	**1.2**	0.37	0.036	mg/kg dry	1	"	"	"	"	
Isophorone	<0.019	0.37	0.019	mg/kg dry	1	"	"	"	"	
Naphthalene	**0.13**	0.37	0.032	mg/kg dry	1	"	"	"	"	J
Nitrobenzene	<0.033	0.37	0.033	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.036	0.37	0.036	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.020	0.37	0.020	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.74	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	**3.8**	0.37	0.021	mg/kg dry	1	"	"	"	"	
Phenol	<0.063	0.74	0.063	mg/kg dry	1	"	"	"	"	
Pyrene	**4.8**	0.37	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*92.3*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*64.6*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*61.5*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*70.4*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*70.2*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*67.7*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS3-0.5' (0903873-12) Soil Sampled: 08/31/09 13:25 Received: 09/01/09 10:45										
1,2,4-Trichlorobenzene	<0.034	0.42	0.034	mg/kg dry	1	B9I0210	09/02/09	09/04/09	EPA 8270C	
1,2-Dichlorobenzene	<0.032	0.42	0.032	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.025	0.42	0.025	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.029	0.42	0.029	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.030	0.42	0.030	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.048	0.85	0.048	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.030	0.85	0.030	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.044	0.85	0.044	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.044	0.85	0.044	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.85	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.073	0.85	0.073	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.027	0.42	0.027	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.054	0.85	0.054	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.024	0.42	0.024	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.024	0.42	0.024	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.048	0.85	0.048	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.035	0.42	0.035	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.044	0.85	0.044	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.025	0.42	0.025	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.046	0.85	0.046	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.49	2.0	0.49	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.042	0.42	0.042	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.094	0.85	0.094	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.022	0.42	0.022	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.051	0.85	0.051	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.14	0.85	0.14	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.029	0.42	0.029	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.034	0.85	0.034	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.029	0.42	0.029	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.13	0.85	0.13	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.035	0.42	0.035	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.029	0.42	0.029	mg/kg dry	1	"	"	"	"	
Aniline	<0.11	0.85	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	<0.032	0.42	0.032	mg/kg dry	1	"	"	"	"	
Benzidine	<0.91	3.2	0.91	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.034	0.42	0.034	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.034	0.42	0.034	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	**0.043**	0.42	0.043	mg/kg dry	1	"	"	"	"	J
Benzo (g,h,i) perylene	<0.038	0.42	0.038	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS3-0.5' (0903873-12) Soil Sampled: 08/31/09 13:25 Received: 09/01/09 10:45										
Benzo (k) fluoranthene	<0.039	0.42	0.039	mg/kg dry	1	B9I0210	09/02/09	09/04/09	EPA 8270C	
Benzoic acid	<0.073	0.42	0.073	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.15	0.85	0.15	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.027	0.42	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.030	0.42	0.030	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.028	0.42	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.025	0.42	0.025	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.027	0.42	0.027	mg/kg dry	1	"	"	"	"	
Carbazole	<0.028	0.42	0.028	mg/kg dry	1	"	"	"	"	
Chrysene	<0.042	0.42	0.042	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.043	0.42	0.043	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.024	0.42	0.024	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.019	0.42	0.019	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.023	0.42	0.023	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.047	0.42	0.047	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.032	0.42	0.032	mg/kg dry	1	"	"	"	"	
Fluoranthene	**0.064**	0.42	0.030	mg/kg dry	1	"	"	"	"	J
Fluorene	<0.023	0.42	0.023	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.020	0.42	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.042	0.42	0.042	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.052	0.42	0.052	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.035	0.42	0.035	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.041	0.42	0.041	mg/kg dry	1	"	"	"	"	
Isophorone	<0.022	0.42	0.022	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.037	0.42	0.037	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.038	0.42	0.038	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.041	0.42	0.041	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.032	0.42	0.032	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.023	0.42	0.023	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.12	0.85	0.12	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.024	0.42	0.024	mg/kg dry	1	"	"	"	"	
Phenol	<0.072	0.85	0.072	mg/kg dry	1	"	"	"	"	
Pyrene	<0.029	0.42	0.029	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*91.0*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*58.3*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*54.6*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*67.4*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*66.4*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*68.3*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS28-0.5' (0903873-14) Soil Sampled: 08/31/09 15:00 Received: 09/01/09 10:45										
1,2,4-Trichlorobenzene	<0.032	0.39	0.032	mg/kg dry	1	B9I0810	09/08/09	09/10/09	EPA 8270C	
1,2-Dichlorobenzene	<0.030	0.39	0.030	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.045	0.80	0.045	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.029	0.80	0.029	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.042	0.80	0.042	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.042	0.80	0.042	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.80	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.069	0.80	0.069	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.051	0.80	0.051	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.023	0.39	0.023	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.023	0.39	0.023	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.045	0.80	0.045	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	**0.96**	0.39	0.033	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.042	0.80	0.042	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.043	0.80	0.043	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.46	1.9	0.46	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.088	0.80	0.088	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.39	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.048	0.80	0.048	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.80	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
4-Methylphenol	**0.068**	0.80	0.032	mg/kg dry	1	"	"	"	"	J
4-Nitroaniline	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.80	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	**4.0**	0.39	0.033	mg/kg dry	1	"	"	"	"	
Acenaphthylene	**0.073**	0.39	0.027	mg/kg dry	1	"	"	"	"	J
Aniline	<0.11	0.80	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	**7.4**	0.39	0.030	mg/kg dry	1	"	"	"	"	
Benzidine	<0.86	3.0	0.86	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	**12**	0.39	0.032	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	**9.1**	0.39	0.032	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	**11**	0.39	0.040	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	**4.1**	0.39	0.036	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS28-0.5' (0903873-14) Soil Sampled: 08/31/09 15:00 Received: 09/01/09 10:45										
Benzo (k) fluoranthene	**4.4**	0.39	0.037	mg/kg dry	1	B9I0810	09/08/09	09/10/09	EPA 8270C	
Benzoic acid	<0.069	0.39	0.069	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.80	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.026	0.39	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
Carbazole	**2.8**	0.39	0.026	mg/kg dry	1	"	"	"	"	
Chrysene	**12**	3.9	0.39	mg/kg dry	10	"	"	09/11/09	"	
Dibenz (a,h) anthracene	**1.5**	0.39	0.040	mg/kg dry	1	"	"	09/10/09	"	
Dibenzofuran	**2.0**	0.39	0.023	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.018	0.39	0.018	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	**0.33**	0.39	0.044	mg/kg dry	1	"	"	"	"	B, J
Di-n-octyl phthalate	<0.030	0.39	0.030	mg/kg dry	1	"	"	"	"	
Fluoranthene	**29**	3.9	0.29	mg/kg dry	10	"	"	09/11/09	"	
Fluorene	**4.3**	0.39	0.021	mg/kg dry	1	"	"	09/10/09	"	
Hexachlorobenzene	<0.019	0.39	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.049	0.39	0.049	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	**5.2**	0.39	0.038	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.39	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	**1.4**	0.39	0.035	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.036	0.39	0.036	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.038	0.39	0.038	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.030	0.39	0.030	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.80	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	**28**	3.9	0.23	mg/kg dry	10	"	"	09/11/09	"	
Phenol	<0.068	0.80	0.068	mg/kg dry	1	"	"	09/10/09	"	
Pyrene	**22**	3.9	0.27	mg/kg dry	10	"	"	09/11/09	"	
Surrogate: 2,4,6-Tribromophenol	*86.7*			*47.2-108 %*		"	"	*09/10/09*	"	
Surrogate: 2-Fluorobiphenyl	*73.0*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*72.1*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*74.6*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*79.3*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*76.4*			*43.6-112 %*		"	"	"	"	

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LEGEND Technical Services, Inc.
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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS32-0.5' (0903873-15) Soil Sampled: 08/31/09 15:15 Received: 09/01/09 10:45										
1,2,4-Trichlorobenzene	<0.031	0.38	0.031	mg/kg dry	1	B9I0810	09/08/09	09/11/09	EPA 8270C	
1,2-Dichlorobenzene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.043	0.76	0.043	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.027	0.76	0.027	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.040	0.76	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.040	0.76	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.76	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.066	0.76	0.066	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.049	0.76	0.049	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.043	0.76	0.043	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	**0.097**	0.38	0.032	mg/kg dry	1	"	"	"	"	J
2-Methylphenol	<0.040	0.76	0.040	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.041	0.76	0.041	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.44	1.8	0.44	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.084	0.76	0.084	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.019	0.38	0.019	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.045	0.76	0.045	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.12	0.76	0.12	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.031	0.76	0.031	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.76	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	**0.47**	0.38	0.032	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.76	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	**1.2**	0.38	0.028	mg/kg dry	1	"	"	"	"	
Benzidine	<0.82	2.8	0.82	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	**3.3**	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	**3.0**	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	**4.2**	0.38	0.039	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	**1.7**	0.38	0.034	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS32-0.5' (0903873-15) Soil Sampled: 08/31/09 15:15 Received: 09/01/09 10:45										
Benzo (k) fluoranthene	**1.7**	0.38	0.035	mg/kg dry	1	B9I0810	09/08/09	09/11/09	EPA 8270C	
Benzoic acid	<0.066	0.38	0.066	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.76	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.025	0.38	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Carbazole	**0.64**	0.38	0.025	mg/kg dry	1	"	"	"	"	
Chrysene	**4.2**	0.38	0.038	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	**0.53**	0.38	0.039	mg/kg dry	1	"	"	"	"	
Dibenzofuran	**0.26**	0.38	0.022	mg/kg dry	1	"	"	"	"	J
Diethyl phthalate	<0.017	0.38	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	**0.10**	0.38	0.042	mg/kg dry	1	"	"	"	"	B, J
Di-n-octyl phthalate	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Fluoranthene	**7.6**	0.38	0.027	mg/kg dry	1	"	"	"	"	
Fluorene	**0.52**	0.38	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.018	0.38	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.047	0.38	0.047	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	**2.0**	0.38	0.036	mg/kg dry	1	"	"	"	"	
Isophorone	<0.019	0.38	0.019	mg/kg dry	1	"	"	"	"	
Naphthalene	**0.16**	0.38	0.033	mg/kg dry	1	"	"	"	"	J
Nitrobenzene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.036	0.38	0.036	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.76	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	**5.4**	0.38	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.065	0.76	0.065	mg/kg dry	1	"	"	"	"	
Pyrene	**6.5**	0.38	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*57.1*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*52.3*			*53.2-85.1 %*		"	"	"	"	*S-BN*
Surrogate: 2-Fluorophenol	*50.5*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*50.6*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*58.3*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*54.4*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS5-0.5' (0903873-16) Soil Sampled: 08/31/09 15:30 Received: 09/01/09 10:45										
1,2,4-Trichlorobenzene	<0.035	0.43	0.035	mg/kg dry	1	B9I0810	09/08/09	09/09/09	EPA 8270C	
1,2-Dichlorobenzene	<0.032	0.43	0.032	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.026	0.43	0.026	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.030	0.43	0.030	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.031	0.43	0.031	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.049	0.87	0.049	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.031	0.87	0.031	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.045	0.87	0.045	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.045	0.87	0.045	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.12	0.87	0.12	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.075	0.87	0.075	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.027	0.43	0.027	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.056	0.87	0.056	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.025	0.43	0.025	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.025	0.43	0.025	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.049	0.87	0.049	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.036	0.43	0.036	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.045	0.87	0.045	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.026	0.43	0.026	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.047	0.87	0.047	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.51	2.1	0.51	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.043	0.43	0.043	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.096	0.87	0.096	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.022	0.43	0.022	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.052	0.87	0.052	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.14	0.87	0.14	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.030	0.43	0.030	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.035	0.87	0.035	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.030	0.43	0.030	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.13	0.87	0.13	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.036	0.43	0.036	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.030	0.43	0.030	mg/kg dry	1	"	"	"	"	
Aniline	<0.12	0.87	0.12	mg/kg dry	1	"	"	"	"	
Anthracene	<0.032	0.43	0.032	mg/kg dry	1	"	"	"	"	
Benzidine	<0.94	3.2	0.94	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.035	0.43	0.035	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.035	0.43	0.035	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.044	0.43	0.044	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.039	0.43	0.039	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS5-0.5' (0903873-16) Soil Sampled: 08/31/09 15:30 Received: 09/01/09 10:45										
Benzo (k) fluoranthene	<0.040	0.43	0.040	mg/kg dry	1	B9I0810	09/08/09	09/09/09	EPA 8270C	
Benzoic acid	<0.075	0.43	0.075	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.16	0.87	0.16	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.027	0.43	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.031	0.43	0.031	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.029	0.43	0.029	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.026	0.43	0.026	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.027	0.43	0.027	mg/kg dry	1	"	"	"	"	
Carbazole	<0.029	0.43	0.029	mg/kg dry	1	"	"	"	"	
Chrysene	<0.043	0.43	0.043	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.044	0.43	0.044	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.025	0.43	0.025	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.019	0.43	0.019	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.023	0.43	0.023	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	**0.28**	0.43	0.048	mg/kg dry	1	"	"	"	"	B, J
Di-n-octyl phthalate	<0.032	0.43	0.032	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.031	0.43	0.031	mg/kg dry	1	"	"	"	"	
Fluorene	<0.023	0.43	0.023	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.021	0.43	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.043	0.43	0.043	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.053	0.43	0.053	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.036	0.43	0.036	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.042	0.43	0.042	mg/kg dry	1	"	"	"	"	
Isophorone	<0.022	0.43	0.022	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.038	0.43	0.038	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.039	0.43	0.039	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.042	0.43	0.042	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.032	0.43	0.032	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.023	0.43	0.023	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.12	0.87	0.12	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.025	0.43	0.025	mg/kg dry	1	"	"	"	"	
Phenol	<0.074	0.87	0.074	mg/kg dry	1	"	"	"	"	
Pyrene	<0.030	0.43	0.030	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*78.9*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*60.6*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*62.2*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*64.2*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*69.4*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*64.9*			*43.6-112 %*		"	"	"	"	

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www.legend-group.com

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS6-0.5' (0903873-17) Soil Sampled: 08/31/09 15:55 Received: 09/01/09 10:45										
1,2,4-Trichlorobenzene	<0.033	0.40	0.033	mg/kg dry	1	B9I0810	09/08/09	09/10/09	EPA 8270C	
1,2-Dichlorobenzene	<0.030	0.40	0.030	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.024	0.40	0.024	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.029	0.40	0.029	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.046	0.81	0.046	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.029	0.81	0.029	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.042	0.81	0.042	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.042	0.81	0.042	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.81	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.070	0.81	0.070	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.025	0.40	0.025	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.052	0.81	0.052	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.023	0.40	0.023	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.023	0.40	0.023	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.046	0.81	0.046	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.034	0.40	0.034	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.042	0.81	0.042	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.024	0.40	0.024	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.043	0.81	0.043	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.47	1.9	0.47	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.040	0.40	0.040	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.089	0.81	0.089	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.40	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.048	0.81	0.048	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.81	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.033	0.81	0.033	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.81	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.034	0.40	0.034	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
Aniline	<0.11	0.81	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	<0.030	0.40	0.030	mg/kg dry	1	"	"	"	"	
Benzidine	<0.87	3.0	0.87	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.033	0.40	0.033	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.033	0.40	0.033	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.041	0.40	0.041	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.036	0.40	0.036	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS6-0.5' (0903873-17) Soil Sampled: 08/31/09 15:55 Received: 09/01/09 10:45										
Benzo (k) fluoranthene	<0.037	0.40	0.037	mg/kg dry	1	B9I0810	09/08/09	09/10/09	EPA 8270C	
Benzoic acid	<0.070	0.40	0.070	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.81	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.025	0.40	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.029	0.40	0.029	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.027	0.40	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.024	0.40	0.024	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.025	0.40	0.025	mg/kg dry	1	"	"	"	"	
Carbazole	<0.027	0.40	0.027	mg/kg dry	1	"	"	"	"	
Chrysene	<0.040	0.40	0.040	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.041	0.40	0.041	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.023	0.40	0.023	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.018	0.40	0.018	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.022	0.40	0.022	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.045	0.40	0.045	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.030	0.40	0.030	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.029	0.40	0.029	mg/kg dry	1	"	"	"	"	
Fluorene	<0.022	0.40	0.022	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.019	0.40	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.040	0.40	0.040	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.049	0.40	0.049	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.034	0.40	0.034	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.039	0.40	0.039	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.40	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.035	0.40	0.035	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.036	0.40	0.036	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.039	0.40	0.039	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.030	0.40	0.030	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.022	0.40	0.022	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.12	0.81	0.12	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.023	0.40	0.023	mg/kg dry	1	"	"	"	"	
Phenol	<0.069	0.81	0.069	mg/kg dry	1	"	"	"	"	
Pyrene	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*74.7*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*62.7*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*61.2*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*64.1*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*68.6*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*62.9*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS30-0.5' (0903873-18) Soil Sampled: 08/31/09 15:25 Received: 09/01/09 10:45										
1,2,4-Trichlorobenzene	<0.032	0.39	0.032	mg/kg dry	1	B9I0810	09/08/09	09/10/09	EPA 8270C	
1,2-Dichlorobenzene	<0.030	0.39	0.030	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.045	0.80	0.045	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.029	0.80	0.029	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.042	0.80	0.042	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.042	0.80	0.042	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.80	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.069	0.80	0.069	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.051	0.80	0.051	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.023	0.39	0.023	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.023	0.39	0.023	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.045	0.80	0.045	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.042	0.80	0.042	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.043	0.80	0.043	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.46	1.9	0.46	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.088	0.80	0.088	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.39	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.048	0.80	0.048	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.80	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.032	0.80	0.032	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.80	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	**0.23**	0.39	0.033	mg/kg dry	1	"	"	"	"	J
Acenaphthylene	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
Aniline	<0.11	0.80	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	**0.48**	0.39	0.030	mg/kg dry	1	"	"	"	"	
Benzidine	<0.86	3.0	0.86	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	**1.1**	0.39	0.032	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	**0.96**	0.39	0.032	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	**1.3**	0.39	0.040	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	**0.49**	0.39	0.036	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS30-0.5' (0903873-18) Soil Sampled: 08/31/09 15:25 Received: 09/01/09 10:45										
Benzo (k) fluoranthene	**0.52**	0.39	0.037	mg/kg dry	1	B9I0810	09/08/09	09/10/09	EPA 8270C	
Benzoic acid	<0.069	0.39	0.069	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.80	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.026	0.39	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
Carbazole	**0.30**	0.39	0.026	mg/kg dry	1	"	"	"	"	J
Chrysene	**1.3**	0.39	0.039	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	**0.15**	0.39	0.040	mg/kg dry	1	"	"	"	"	J
Dibenzofuran	**0.12**	0.39	0.023	mg/kg dry	1	"	"	"	"	J
Diethyl phthalate	<0.018	0.39	0.018	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.044	0.39	0.044	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.030	0.39	0.030	mg/kg dry	1	"	"	"	"	
Fluoranthene	**2.7**	0.39	0.029	mg/kg dry	1	"	"	"	"	
Fluorene	**0.24**	0.39	0.021	mg/kg dry	1	"	"	"	"	J
Hexachlorobenzene	<0.019	0.39	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.049	0.39	0.049	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	**0.59**	0.39	0.038	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.39	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	**0.082**	0.39	0.035	mg/kg dry	1	"	"	"	"	J
Nitrobenzene	<0.036	0.39	0.036	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.038	0.39	0.038	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.030	0.39	0.030	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.80	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	**2.3**	0.39	0.023	mg/kg dry	1	"	"	"	"	
Phenol	<0.068	0.80	0.068	mg/kg dry	1	"	"	"	"	
Pyrene	**2.2**	0.39	0.027	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*65.0*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*53.9*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*50.0*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*52.6*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*56.4*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*55.9*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07			
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300		Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/24/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0312 - EPA 3050B											
Blank (B9I0312-BLK1)					Prepared: 09/03/09		Analyzed: 09/15/09				
Antimony	< 0.50	0.50	0.0055	mg/kg wet							
Arsenic	< 0.50	0.50	0.10	mg/kg wet							
Beryllium	< 0.25	0.25	0.011	mg/kg wet							
Cadmium	< 0.25	0.25	0.025	mg/kg wet							
Chromium	< 0.50	0.50	0.012	mg/kg wet							
Copper	< 1.0	1.0	0.070	mg/kg wet							
Lead	< 1.0	1.0	0.034	mg/kg wet							
Nickel	< 0.50	0.50	0.014	mg/kg wet							
Selenium	< 1.0	1.0	0.11	mg/kg wet							
Silver	< 0.25	0.25	0.0090	mg/kg wet							
Thallium	< 2.0	2.0	0.13	mg/kg wet							
Zinc	< 1.0	1.0	0.22	mg/kg wet							
LCS (B9I0312-BS1)					Prepared: 09/03/09		Analyzed: 09/15/09				
Antimony	40.8	0.50	0.0055	mg/kg wet	39.9		102	80-120			
Arsenic	39.7	0.50	0.10	mg/kg wet	39.9		99.5	80-120			
Beryllium	4.09	0.25	0.011	mg/kg wet	3.99		102	80-120			
Cadmium	41.8	0.25	0.025	mg/kg wet	39.9		105	80-120			
Chromium	41.2	0.50	0.012	mg/kg wet	39.9		103	80-120			
Copper	40.4	1.0	0.070	mg/kg wet	39.9		101	80-120			
Lead	41.7	1.0	0.034	mg/kg wet	39.9		104	80-120			
Nickel	41.2	0.50	0.014	mg/kg wet	39.9		103	80-120			
Selenium	39.1	1.0	0.11	mg/kg wet	39.9		98.0	80-120			
Silver	4.53	0.25	0.0090	mg/kg wet	3.99		114	80-120			
Thallium	40.7	2.0	0.13	mg/kg wet	39.9		102	80-120			
Zinc	42.9	1.0	0.22	mg/kg wet	39.9		107	80-120			
LCS Dup (B9I0312-BSD1)					Prepared: 09/03/09		Analyzed: 09/15/09				
Antimony	39.9	0.50	0.0055	mg/kg wet	39.9		99.9	80-120	2.30	20	
Arsenic	39.4	0.50	0.10	mg/kg wet	39.9		98.6	80-120	0.815	20	
Beryllium	4.07	0.25	0.011	mg/kg wet	3.99		102	80-120	0.578	20	
Cadmium	41.6	0.25	0.025	mg/kg wet	39.9		104	80-120	0.355	20	
Chromium	41.0	0.50	0.012	mg/kg wet	39.9		103	80-120	0.388	20	
Copper	40.6	1.0	0.070	mg/kg wet	39.9		102	80-120	0.553	20	
Lead	41.6	1.0	0.034	mg/kg wet	39.9		104	80-120	0.203	20	
Nickel	41.1	0.50	0.014	mg/kg wet	39.9		103	80-120	0.262	20	
Selenium	39.0	1.0	0.11	mg/kg wet	39.9		97.8	80-120	0.150	20	
Silver	4.51	0.25	0.0090	mg/kg wet	3.99		113	80-120	0.445	20	
Thallium	40.8	2.0	0.13	mg/kg wet	39.9		102	80-120	0.143	20	
Zinc	40.9	1.0	0.22	mg/kg wet	39.9		103	80-120	4.66	20	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0312 - EPA 3050B											
Matrix Spike (B9I0312-MS1)		**Source: 0903887-01**			Prepared: 09/03/09		Analyzed: 09/15/09				
Antimony	30.9	0.56	0.0062	mg/kg dry	44.8	<0.56	69.0	75-125			M2
Arsenic	45.7	0.56	0.11	mg/kg dry	44.8	4.28	92.4	75-125			
Beryllium	4.43	0.28	0.012	mg/kg dry	4.48	<0.28	96.7	75-125			
Cadmium	42.0	0.28	0.028	mg/kg dry	44.8	0.428	92.8	75-125			
Chromium	60.7	0.56	0.013	mg/kg dry	44.8	17.2	97.1	75-125			
Copper	55.0	1.1	0.079	mg/kg dry	44.8	13.4	92.7	75-125			
Lead	51.4	1.1	0.038	mg/kg dry	44.8	9.50	93.5	75-125			
Nickel	58.5	0.56	0.016	mg/kg dry	44.8	18.7	88.8	75-125			
Selenium	40.5	1.1	0.12	mg/kg dry	44.8	<1.1	90.4	75-125			
Silver	4.99	0.28	0.010	mg/kg dry	4.48	<0.28	111	75-125			
Thallium	39.3	2.2	0.15	mg/kg dry	44.8	<2.2	87.7	75-125			
Zinc	31.4	1.1	0.25	mg/kg dry	44.8	<1.1	69.9	75-125			M2
Matrix Spike Dup (B9I0312-MSD1)		**Source: 0903887-01**			Prepared: 09/03/09		Analyzed: 09/15/09				
Antimony	30.7	0.56	0.0062	mg/kg dry	44.8	<0.56	68.5	75-125	0.725	20	M2
Arsenic	45.6	0.56	0.11	mg/kg dry	44.8	4.28	92.2	75-125	0.204	20	
Beryllium	4.44	0.28	0.012	mg/kg dry	4.48	<0.28	96.8	75-125	0.147	20	
Cadmium	41.9	0.28	0.028	mg/kg dry	44.8	0.428	92.5	75-125	0.337	20	
Chromium	60.5	0.56	0.013	mg/kg dry	44.8	17.2	96.5	75-125	0.381	20	
Copper	55.0	1.1	0.079	mg/kg dry	44.8	13.4	92.8	75-125	0.0289	20	
Lead	51.2	1.1	0.038	mg/kg dry	44.8	9.50	93.1	75-125	0.387	20	
Nickel	58.3	0.56	0.016	mg/kg dry	44.8	18.7	88.4	75-125	0.327	20	
Selenium	40.5	1.1	0.12	mg/kg dry	44.8	<1.1	90.4	75-125	0.0702	20	
Silver	4.98	0.28	0.010	mg/kg dry	4.48	<0.28	111	75-125	0.305	20	
Thallium	39.3	2.2	0.15	mg/kg dry	44.8	<2.2	87.7	75-125	0.0912	20	
Zinc	31.3	1.1	0.25	mg/kg dry	44.8	<1.1	69.9	75-125	0.0813	20	M2

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0315 - EPA 7471A											
Blank (B9I0315-BLK1)					Prepared: 09/03/09		Analyzed: 09/04/09				
Mercury	< 0.10	0.10	0.0018	mg/kg wet							
LCS (B9I0315-BS1)					Prepared: 09/03/09		Analyzed: 09/04/09				
Mercury	0.227	0.10	0.0018	mg/kg wet	0.200		114	80-120			
LCS Dup (B9I0315-BSD1)					Prepared: 09/03/09		Analyzed: 09/04/09				
Mercury	0.221	0.10	0.0018	mg/kg wet	0.200		110	80-120	2.68	20	
Matrix Spike (B9I0315-MS1)		**Source: 0903887-01**			Prepared: 09/03/09		Analyzed: 09/04/09				
Mercury	0.274	0.11	0.0020	mg/kg dry	0.225	<0.11	104	75-125			
Matrix Spike Dup (B9I0315-MSD1)		**Source: 0903887-01**			Prepared: 09/03/09		Analyzed: 09/04/09				
Mercury	0.263	0.11	0.0020	mg/kg dry	0.225	<0.11	99.5	75-125	4.18	20	
Batch B9I2001 - EPA 3050B											
Blank (B9I2001-BLK1)					Prepared: 09/20/09		Analyzed: 09/21/09				
Antimony	< 0.50	0.50	0.0055	mg/kg wet							
Arsenic	< 0.50	0.50	0.10	mg/kg wet							
Beryllium	< 0.25	0.25	0.011	mg/kg wet							
Cadmium	< 0.25	0.25	0.025	mg/kg wet							
Chromium	< 0.50	0.50	0.012	mg/kg wet							
Copper	< 1.0	1.0	0.070	mg/kg wet							
Lead	< 1.0	1.0	0.034	mg/kg wet							
Nickel	< 0.50	0.50	0.014	mg/kg wet							
Selenium	< 1.0	1.0	0.11	mg/kg wet							
Silver	< 0.25	0.25	0.0090	mg/kg wet							
Thallium	< 2.0	2.0	0.13	mg/kg wet							
Zinc	< 1.0	1.0	0.22	mg/kg wet							
LCS (B9I2001-BS1)					Prepared: 09/20/09		Analyzed: 09/21/09				
Antimony	36.9	0.50	0.0055	mg/kg wet	39.9		92.4	80-120			
Arsenic	36.5	0.50	0.10	mg/kg wet	39.9		91.4	80-120			
Beryllium	3.74	0.25	0.011	mg/kg wet	3.99		93.8	80-120			
Cadmium	38.8	0.25	0.025	mg/kg wet	39.9		97.3	80-120			
Chromium	38.4	0.50	0.012	mg/kg wet	39.9		96.2	80-120			
Copper	37.0	1.0	0.070	mg/kg wet	39.9		92.8	80-120			
Lead	39.1	1.0	0.034	mg/kg wet	39.9		97.9	80-120			
Nickel	38.3	0.50	0.014	mg/kg wet	39.9		96.1	80-120			
Selenium	35.6	1.0	0.11	mg/kg wet	39.9		89.1	80-120			
Silver	3.53	0.25	0.0090	mg/kg wet	3.99		88.4	80-120			
Thallium	37.3	2.0	0.13	mg/kg wet	39.9		93.4	80-120			
Zinc	37.7	1.0	0.22	mg/kg wet	39.9		94.5	80-120			

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Barr Engineering Co.	Project:	23/19-0B05.07			
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300		Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/24/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2001 - EPA 3050B											
LCS Dup (B9I2001-BSD1)					Prepared: 09/20/09		Analyzed: 09/21/09				
Antimony	36.4	0.50	0.0055	mg/kg wet	39.9		91.2	80-120	1.34	20	
Arsenic	36.8	0.50	0.10	mg/kg wet	39.9		92.1	80-120	0.769	20	
Beryllium	3.76	0.25	0.011	mg/kg wet	3.99		94.3	80-120	0.517	20	
Cadmium	39.0	0.25	0.025	mg/kg wet	39.9		97.6	80-120	0.322	20	
Chromium	38.4	0.50	0.012	mg/kg wet	39.9		96.1	80-120	0.0964	20	
Copper	37.1	1.0	0.070	mg/kg wet	39.9		93.1	80-120	0.261	20	
Lead	39.1	1.0	0.034	mg/kg wet	39.9		97.9	80-120	0.00562	20	
Nickel	38.1	0.50	0.014	mg/kg wet	39.9		95.5	80-120	0.663	20	
Selenium	35.9	1.0	0.11	mg/kg wet	39.9		89.9	80-120	0.878	20	
Silver	3.54	0.25	0.0090	mg/kg wet	3.99		88.7	80-120	0.334	20	
Thallium	37.7	2.0	0.13	mg/kg wet	39.9		94.4	80-120	1.11	20	
Zinc	39.4	1.0	0.22	mg/kg wet	39.9		98.6	80-120	4.28	20	
Matrix Spike (B9I2001-MS1)		**Source: 0904080-05**			Prepared: 09/20/09		Analyzed: 09/21/09				
Antimony	38.4	0.62	0.0068	mg/kg dry	49.3	<0.62	78.0	75-125			
Arsenic	45.1	0.62	0.12	mg/kg dry	49.3	4.21	83.0	75-125			
Beryllium	4.80	0.31	0.014	mg/kg dry	4.93	0.600	85.3	75-125			
Cadmium	40.7	0.31	0.031	mg/kg dry	49.3	<0.31	82.6	75-125			
Chromium	75.8	0.62	0.015	mg/kg dry	49.3	35.7	81.5	75-125			
Copper	81.6	1.2	0.086	mg/kg dry	49.3	38.7	87.0	75-125			
Lead	50.4	1.2	0.042	mg/kg dry	49.3	9.14	83.7	75-125			
Nickel	68.5	0.62	0.017	mg/kg dry	49.3	34.5	69.1	75-125			M2
Selenium	37.7	1.2	0.14	mg/kg dry	49.3	<1.2	76.6	75-125			
Silver	3.82	0.31	0.011	mg/kg dry	4.93	<0.31	77.6	75-125			
Thallium	38.0	2.5	0.16	mg/kg dry	49.3	<2.5	77.2	75-125			
Zinc	17.3	1.2	0.27	mg/kg dry	49.3	<1.2	35.2	75-125			M2
Matrix Spike Dup (B9I2001-MSD1)		**Source: 0904080-05**			Prepared: 09/20/09		Analyzed: 09/21/09				
Antimony	36.5	0.62	0.0068	mg/kg dry	49.3	<0.62	74.1	75-125	5.09	20	M2
Arsenic	42.7	0.62	0.12	mg/kg dry	49.3	4.21	78.2	75-125	5.32	20	
Beryllium	4.55	0.31	0.014	mg/kg dry	4.93	0.600	80.3	75-125	5.26	20	
Cadmium	38.8	0.31	0.031	mg/kg dry	49.3	<0.31	78.8	75-125	4.76	20	
Chromium	71.3	0.62	0.015	mg/kg dry	49.3	35.7	72.4	75-125	6.08	20	M2
Copper	77.9	1.2	0.086	mg/kg dry	49.3	38.7	79.4	75-125	4.69	20	
Lead	47.6	1.2	0.042	mg/kg dry	49.3	9.14	78.1	75-125	5.67	20	
Nickel	68.3	0.62	0.017	mg/kg dry	49.3	34.5	68.6	75-125	0.380	20	M2
Selenium	36.2	1.2	0.14	mg/kg dry	49.3	<1.2	73.5	75-125	4.16	20	M2
Silver	3.59	0.31	0.011	mg/kg dry	4.93	<0.31	72.9	75-125	6.26	20	M2
Thallium	36.1	2.5	0.16	mg/kg dry	49.3	<2.5	73.4	75-125	5.09	20	M2
Zinc	16.2	1.2	0.27	mg/kg dry	49.3	<1.2	33.0	75-125	6.38	20	M2

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

PCB 8082 - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1003 - EPA 3545 ASE Extraction											
Blank (B9I1003-BLK1)					Prepared: 09/10/09		Analyzed: 09/11/09				
Aroclor 1016	< 0.20	0.20	0.012	mg/kg wet							
Aroclor 1221	< 0.20	0.20	0.020	mg/kg wet							
Aroclor 1232	< 0.20	0.20	0.015	mg/kg wet							
Aroclor 1242	< 0.20	0.20	0.019	mg/kg wet							
Aroclor 1248	< 0.20	0.20	0.011	mg/kg wet							
Aroclor 1254	< 0.20	0.20	0.015	mg/kg wet							
Aroclor 1260	< 0.20	0.20	0.011	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0537*			*mg/kg wet*	*0.0667*		*80.5*	*65.3-143*			
Surrogate: Tetrachloro-meta-xylene	*0.0547*			*mg/kg wet*	*0.0667*		*82.0*	*60.9-138*			
LCS (B9I1003-BS1)					Prepared: 09/10/09		Analyzed: 09/11/09				
Aroclor 1260	0.271	0.20	0.011	mg/kg wet	0.333		81.2	70-130			
Surrogate: Decachlorobiphenyl	*0.0533*			*mg/kg wet*	*0.0667*		*80.0*	*65.3-143*			
Surrogate: Tetrachloro-meta-xylene	*0.0510*			*mg/kg wet*	*0.0667*		*76.5*	*60.9-138*			
Matrix Spike (B9I1003-MS1)		**Source: 0903866-01**			Prepared: 09/10/09		Analyzed: 09/11/09				
Aroclor 1260	0.316	0.22	0.012	mg/kg dry	0.372	<0.22	85.1	70-130			
Surrogate: Decachlorobiphenyl	*0.0617*			*mg/kg dry*	*0.0743*		*83.0*	*65.3-143*			
Surrogate: Tetrachloro-meta-xylene	*0.0621*			*mg/kg dry*	*0.0743*		*83.5*	*60.9-138*			
Matrix Spike Dup (B9I1003-MSD1)		**Source: 0903866-01**			Prepared: 09/10/09		Analyzed: 09/11/09				
Aroclor 1260	0.342	0.22	0.012	mg/kg dry	0.373	<0.22	91.6	70-130	7.69	17.2	
Surrogate: Decachlorobiphenyl	*0.0611*			*mg/kg dry*	*0.0746*		*82.0*	*65.3-143*			
Surrogate: Tetrachloro-meta-xylene	*0.0615*			*mg/kg dry*	*0.0746*		*82.5*	*60.9-138*			

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

PERCENT SOLIDS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1011 - General Preparation											
Duplicate (B9I1011-DUP1)		**Source: 0903873-06**			Prepared: 09/10/09		Analyzed: 09/11/09				
% Solids	88.0			%		88.0			0.00	20	
Duplicate (B9I1011-DUP2)		**Source: 0903873-16**			Prepared: 09/10/09		Analyzed: 09/11/09				
% Solids	78.0			%		77.0			1.29	20	
Duplicate (B9I1011-DUP3)		**Source: 0903959-01**			Prepared: 09/10/09		Analyzed: 09/11/09				
% Solids	75.0			%		73.0			2.70	20	
Duplicate (B9I1011-DUP4)		**Source: 0903965-02**			Prepared: 09/10/09		Analyzed: 09/11/09				
% Solids	87.0			%		87.0			0.00	20	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0210 - EPA 3545 ASE Extraction											
Blank (B9I0210-BLK1)					Prepared: 09/02/09 Analyzed: 09/08/09						
1,2,4-Trichlorobenzene	< 0.027	0.33	0.027	mg/kg wet							
1,2-Dichlorobenzene	< 0.025	0.33	0.025	mg/kg wet							
1,2-Diphenylhydrazine as Azobenzene	< 0.020	0.33	0.020	mg/kg wet							
1,3-Dichlorobenzene	< 0.023	0.33	0.023	mg/kg wet							
1,4-Dichlorobenzene	< 0.024	0.33	0.024	mg/kg wet							
2,3,4,6-Tetrachlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2,4,5-Trichlorophenol	< 0.024	0.67	0.024	mg/kg wet							
2,4,6-Trichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dimethylphenol	< 0.090	0.67	0.090	mg/kg wet							
2,4-Dinitrophenol	< 0.058	0.67	0.058	mg/kg wet							
2,4-Dinitrotoluene	< 0.021	0.33	0.021	mg/kg wet							
2,6-Dichlorophenol	< 0.043	0.67	0.043	mg/kg wet							
2,6-Dinitrotoluene	< 0.019	0.33	0.019	mg/kg wet							
2-Chloronaphthalene	< 0.019	0.33	0.019	mg/kg wet							
2-Chlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2-Methylnaphthalene	< 0.028	0.33	0.028	mg/kg wet							
2-Methylphenol	< 0.035	0.67	0.035	mg/kg wet							
2-Nitroaniline	< 0.020	0.33	0.020	mg/kg wet							
2-Nitrophenol	< 0.036	0.67	0.036	mg/kg wet							
3,3´-Dichlorobenzidine	< 0.39	1.6	0.39	mg/kg wet							
3-Nitroaniline	< 0.033	0.33	0.033	mg/kg wet							
4,6-Dinitro-2-methylphenol	< 0.074	0.67	0.074	mg/kg wet							
4-Bromophenyl phenyl ether	< 0.017	0.33	0.017	mg/kg wet							
4-Chloro-3-methylphenol	< 0.040	0.67	0.040	mg/kg wet							
4-Chloroaniline	< 0.11	0.67	0.11	mg/kg wet							
4-Chlorophenyl phenyl ether	< 0.023	0.33	0.023	mg/kg wet							
4-Methylphenol	< 0.027	0.67	0.027	mg/kg wet							
4-Nitroaniline	< 0.023	0.33	0.023	mg/kg wet							
4-Nitrophenol	< 0.099	0.67	0.099	mg/kg wet							
Acenaphthene	< 0.028	0.33	0.028	mg/kg wet							
Acenaphthylene	< 0.023	0.33	0.023	mg/kg wet							
Aniline	< 0.090	0.67	0.090	mg/kg wet							
Anthracene	< 0.025	0.33	0.025	mg/kg wet							
Benzidine	< 0.72	2.5	0.72	mg/kg wet							
Benzo (a) anthracene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (a) pyrene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (b) fluoranthene	< 0.034	0.33	0.034	mg/kg wet							
Benzo (g,h,i) perylene	< 0.030	0.33	0.030	mg/kg wet							

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0210 - EPA 3545 ASE Extraction											
Blank (B9I0210-BLK1)					Prepared: 09/02/09 Analyzed: 09/08/09						
Benzo (k) fluoranthene	< 0.031	0.33	0.031	mg/kg wet							
Benzoic acid	< 0.058	0.33	0.058	mg/kg wet							
Benzyl alcohol	< 0.12	0.67	0.12	mg/kg wet							
Bis(2-chloroethoxy)methane	< 0.021	0.33	0.021	mg/kg wet							
Bis(2-chloroethyl)ether	< 0.024	0.33	0.024	mg/kg wet							
Bis(2-chloroisopropyl)ether	< 0.022	0.33	0.022	mg/kg wet							
Bis(2-ethylhexyl)phthalate	< 0.020	0.33	0.020	mg/kg wet							
Butyl benzyl phthalate	< 0.021	0.33	0.021	mg/kg wet							
Carbazole	< 0.022	0.33	0.022	mg/kg wet							
Chrysene	< 0.033	0.33	0.033	mg/kg wet							
Dibenz (a,h) anthracene	< 0.034	0.33	0.034	mg/kg wet							
Dibenzofuran	< 0.019	0.33	0.019	mg/kg wet							
Diethyl phthalate	< 0.015	0.33	0.015	mg/kg wet							
Dimethyl phthalate	< 0.018	0.33	0.018	mg/kg wet							
Di-n-butyl phthalate	< 0.037	0.33	0.037	mg/kg wet							
Di-n-octyl phthalate	< 0.025	0.33	0.025	mg/kg wet							
Fluoranthene	< 0.024	0.33	0.024	mg/kg wet							
Fluorene	< 0.018	0.33	0.018	mg/kg wet							
Hexachlorobenzene	< 0.016	0.33	0.016	mg/kg wet							
Hexachlorobutadiene	< 0.033	0.33	0.033	mg/kg wet							
Hexachlorocyclopentadiene	< 0.041	0.33	0.041	mg/kg wet							
Hexachloroethane	< 0.028	0.33	0.028	mg/kg wet							
Indeno (1,2,3-cd) pyrene	< 0.032	0.33	0.032	mg/kg wet							
Isophorone	< 0.017	0.33	0.017	mg/kg wet							
Naphthalene	< 0.029	0.33	0.029	mg/kg wet							
Nitrobenzene	< 0.030	0.33	0.030	mg/kg wet							
N-Nitrosodimethylamine	< 0.032	0.33	0.032	mg/kg wet							
N-Nitrosodi-n-propylamine	< 0.025	0.33	0.025	mg/kg wet							
N-Nitrosodiphenylamine	< 0.018	0.33	0.018	mg/kg wet							
Pentachlorophenol	< 0.096	0.67	0.096	mg/kg wet							
Phenanthrene	< 0.019	0.33	0.019	mg/kg wet							
Phenol	< 0.057	0.67	0.057	mg/kg wet							
Pyrene	< 0.023	0.33	0.023	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	*5.25*			*mg/kg wet*	*6.67*		*78.7*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*4.34*			*mg/kg wet*	*6.67*		*65.1*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*4.51*			*mg/kg wet*	*6.67*		*67.6*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.73*			*mg/kg wet*	*6.67*		*71.0*	*49.1-86.9*			
Surrogate: Phenol-d6	*4.77*			*mg/kg wet*	*6.67*		*71.5*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*4.08*			*mg/kg wet*	*6.67*		*61.2*	*43.6-112*			

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0210 - EPA 3545 ASE Extraction											
LCS (B9I0210-BS1)					Prepared: 09/02/09		Analyzed: 09/03/09				
1,2,4-Trichlorobenzene	4.61	0.33	0.027	mg/kg wet	6.67		69.1	50.7-82.1			
1,4-Dichlorobenzene	3.92	0.33	0.024	mg/kg wet	6.67		58.9	44-77			
2,4-Dinitrotoluene	4.76	0.33	0.021	mg/kg wet	6.67		71.4	56.7-81.7			
2-Chlorophenol	4.61	0.67	0.038	mg/kg wet	6.67		69.1	52.3-88.2			
4-Chloro-3-methylphenol	4.83	0.67	0.040	mg/kg wet	6.67		72.4	53.4-87			
4-Nitrophenol	4.52	0.67	0.099	mg/kg wet	6.67		67.8	55.7-87.1			
Anthracene	5.11	0.33	0.025	mg/kg wet	6.67		76.7	65.3-92			
Benzo (a) anthracene	5.40	0.33	0.027	mg/kg wet	6.67		80.9	69-95.3			
Benzo (a) pyrene	5.40	0.33	0.027	mg/kg wet	6.67		81.0	68.5-98.2			
Chrysene	5.25	0.33	0.033	mg/kg wet	6.67		78.7	68.6-94.2			
Fluoranthene	5.13	0.33	0.024	mg/kg wet	6.67		76.9	64.3-94.6			
Fluorene	4.96	0.33	0.018	mg/kg wet	6.67		74.4	61.9-89.4			
N-Nitrosodi-n-propylamine	4.34	0.33	0.025	mg/kg wet	6.67		65.1	55.5-91.1			
Pentachlorophenol	4.64	0.67	0.096	mg/kg wet	6.67		69.6	54.7-74.6			
Phenanthrene	5.02	0.33	0.019	mg/kg wet	6.67		75.2	64.3-90.9			
Phenol	4.03	0.67	0.057	mg/kg wet	6.67		60.5	49.7-85.4			
Surrogate: 2,4,6-Tribromophenol	*6.20*			*mg/kg wet*	*6.67*		*93.0*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*4.51*			*mg/kg wet*	*6.67*		*67.6*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*4.64*			*mg/kg wet*	*6.67*		*69.7*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.69*			*mg/kg wet*	*6.67*		*70.4*	*49.1-86.9*			
Surrogate: Phenol-d6	*4.87*			*mg/kg wet*	*6.67*		*73.0*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*4.92*			*mg/kg wet*	*6.67*		*73.9*	*43.6-112*			
Matrix Spike (B9I0210-MS1)		**Source: 0903876-03**			Prepared: 09/02/09		Analyzed: 09/03/09				
1,2,4-Trichlorobenzene	5.01	0.36	0.029	mg/kg dry	7.26	<0.36	69.0	51-77.5			
1,4-Dichlorobenzene	4.19	0.36	0.026	mg/kg dry	7.26	<0.36	57.7	41.7-73.4			
2,4-Dinitrotoluene	5.28	0.36	0.023	mg/kg dry	7.26	<0.36	72.8	50-84.8			
2-Chlorophenol	5.00	0.73	0.041	mg/kg dry	7.26	<0.73	68.8	47.8-90.8			
4-Chloro-3-methylphenol	5.33	0.73	0.043	mg/kg dry	7.26	<0.73	73.4	48.4-95.1			
4-Nitrophenol	5.09	0.73	0.11	mg/kg dry	7.26	<0.73	70.1	44-105			
Anthracene	5.61	0.36	0.027	mg/kg dry	7.26	<0.36	77.4	60.2-97.3			
Benzo (a) anthracene	5.98	0.36	0.029	mg/kg dry	7.26	<0.36	82.5	59.8-102			
Benzo (a) pyrene	5.95	0.36	0.029	mg/kg dry	7.26	<0.36	81.9	57.2-105			
Chrysene	5.85	0.36	0.036	mg/kg dry	7.26	<0.36	80.6	59.2-102			
Fluoranthene	5.62	0.36	0.026	mg/kg dry	7.26	<0.36	77.5	50.4-108			
Fluorene	5.44	0.36	0.020	mg/kg dry	7.26	<0.36	75.0	57.8-94.4			
N-Nitrosodi-n-propylamine	4.72	0.36	0.027	mg/kg dry	7.26	<0.36	65.1	46.2-96.2			
Pentachlorophenol	5.26	0.73	0.10	mg/kg dry	7.26	<0.73	72.5	53.6-80.4			
Phenanthrene	5.50	0.36	0.021	mg/kg dry	7.26	<0.36	75.8	58.4-97.5			
Phenol	4.40	0.73	0.062	mg/kg dry	7.26	<0.73	60.6	44-88.5			

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0210 - EPA 3545 ASE Extraction											
Matrix Spike (B9I0210-MS1)		**Source: 0903876-03**			Prepared: 09/02/09		Analyzed: 09/03/09				
Surrogate: 2,4,6-Tribromophenol	*6.85*			*mg/kg dry*	*7.26*		*94.4*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*4.86*			*mg/kg dry*	*7.26*		*67.0*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*4.99*			*mg/kg dry*	*7.26*		*68.8*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*5.02*			*mg/kg dry*	*7.26*		*69.2*	*49.1-86.9*			
Surrogate: Phenol-d6	*5.24*			*mg/kg dry*	*7.26*		*72.2*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.32*			*mg/kg dry*	*7.26*		*73.4*	*43.6-112*			
Matrix Spike Dup (B9I0210-MSD1)		**Source: 0903876-03**			Prepared: 09/02/09		Analyzed: 09/03/09				
1,2,4-Trichlorobenzene	4.93	0.36	0.029	mg/kg dry	7.28	<0.36	67.8	51-77.5	1.44	15.7	
1,4-Dichlorobenzene	4.06	0.36	0.026	mg/kg dry	7.28	<0.36	55.7	41.7-73.4	3.15	14.7	
2,4-Dinitrotoluene	5.53	0.36	0.023	mg/kg dry	7.28	<0.36	76.0	50-84.8	4.56	20.5	
2-Chlorophenol	5.03	0.73	0.041	mg/kg dry	7.28	<0.73	69.1	47.8-90.8	0.631	19.8	
4-Chloro-3-methylphenol	5.42	0.73	0.043	mg/kg dry	7.28	<0.73	74.5	48.4-95.1	1.67	18.7	
4-Nitrophenol	5.22	0.73	0.11	mg/kg dry	7.28	<0.73	71.7	44-105	2.53	30.9	
Anthracene	5.65	0.36	0.027	mg/kg dry	7.28	<0.36	77.7	60.2-97.3	0.709	15.1	
Benzo (a) anthracene	6.09	0.36	0.029	mg/kg dry	7.28	<0.36	83.7	59.8-102	1.77	19.6	
Benzo (a) pyrene	5.95	0.36	0.029	mg/kg dry	7.28	<0.36	81.8	57.2-105	0.151	19.4	
Chrysene	5.96	0.36	0.036	mg/kg dry	7.28	<0.36	81.9	59.2-102	1.90	19.6	
Fluoranthene	5.68	0.36	0.026	mg/kg dry	7.28	<0.36	78.1	50.4-108	1.04	21	
Fluorene	5.50	0.36	0.020	mg/kg dry	7.28	<0.36	75.7	57.8-94.4	1.14	15.8	
N-Nitrosodi-n-propylamine	4.69	0.36	0.027	mg/kg dry	7.28	<0.36	64.5	46.2-96.2	0.593	17.1	
Pentachlorophenol	5.24	0.73	0.10	mg/kg dry	7.28	<0.73	72.0	53.6-80.4	0.526	22.4	
Phenanthrene	5.56	0.36	0.021	mg/kg dry	7.28	<0.36	76.4	58.4-97.5	1.01	14.3	
Phenol	4.39	0.73	0.062	mg/kg dry	7.28	<0.73	60.3	44-88.5	0.204	21.5	
Surrogate: 2,4,6-Tribromophenol	*6.93*			*mg/kg dry*	*7.28*		*95.3*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*4.86*			*mg/kg dry*	*7.28*		*66.8*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*4.97*			*mg/kg dry*	*7.28*		*68.3*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*5.01*			*mg/kg dry*	*7.28*		*68.8*	*49.1-86.9*			
Surrogate: Phenol-d6	*5.25*			*mg/kg dry*	*7.28*		*72.1*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.41*			*mg/kg dry*	*7.28*		*74.4*	*43.6-112*			

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0810 - EPA 3545 ASE Extraction											
Blank (B9I0810-BLK1)					Prepared: 09/08/09 Analyzed: 09/09/09						
1,2,4-Trichlorobenzene	< 0.027	0.33	0.027	mg/kg wet							
1,2-Dichlorobenzene	< 0.025	0.33	0.025	mg/kg wet							
1,2-Diphenylhydrazine as Azobenzene	< 0.020	0.33	0.020	mg/kg wet							
1,3-Dichlorobenzene	< 0.023	0.33	0.023	mg/kg wet							
1,4-Dichlorobenzene	< 0.024	0.33	0.024	mg/kg wet							
2,3,4,6-Tetrachlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2,4,5-Trichlorophenol	< 0.024	0.67	0.024	mg/kg wet							
2,4,6-Trichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dimethylphenol	< 0.090	0.67	0.090	mg/kg wet							
2,4-Dinitrophenol	< 0.058	0.67	0.058	mg/kg wet							
2,4-Dinitrotoluene	< 0.021	0.33	0.021	mg/kg wet							
2,6-Dichlorophenol	< 0.043	0.67	0.043	mg/kg wet							
2,6-Dinitrotoluene	< 0.019	0.33	0.019	mg/kg wet							
2-Chloronaphthalene	< 0.019	0.33	0.019	mg/kg wet							
2-Chlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2-Methylnaphthalene	< 0.028	0.33	0.028	mg/kg wet							
2-Methylphenol	< 0.035	0.67	0.035	mg/kg wet							
2-Nitroaniline	< 0.020	0.33	0.020	mg/kg wet							
2-Nitrophenol	< 0.036	0.67	0.036	mg/kg wet							
3,3´-Dichlorobenzidine	< 0.39	1.6	0.39	mg/kg wet							
3-Nitroaniline	< 0.033	0.33	0.033	mg/kg wet							
4,6-Dinitro-2-methylphenol	< 0.074	0.67	0.074	mg/kg wet							
4-Bromophenyl phenyl ether	< 0.017	0.33	0.017	mg/kg wet							
4-Chloro-3-methylphenol	< 0.040	0.67	0.040	mg/kg wet							
4-Chloroaniline	< 0.11	0.67	0.11	mg/kg wet							
4-Chlorophenyl phenyl ether	< 0.023	0.33	0.023	mg/kg wet							
4-Methylphenol	< 0.027	0.67	0.027	mg/kg wet							
4-Nitroaniline	< 0.023	0.33	0.023	mg/kg wet							
4-Nitrophenol	< 0.099	0.67	0.099	mg/kg wet							
Acenaphthene	< 0.028	0.33	0.028	mg/kg wet							
Acenaphthylene	< 0.023	0.33	0.023	mg/kg wet							
Aniline	< 0.090	0.67	0.090	mg/kg wet							
Anthracene	< 0.025	0.33	0.025	mg/kg wet							
Benzidine	< 0.72	2.5	0.72	mg/kg wet							
Benzo (a) anthracene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (a) pyrene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (b) fluoranthene	< 0.034	0.33	0.034	mg/kg wet							
Benzo (g,h,i) perylene	< 0.030	0.33	0.030	mg/kg wet							

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0810 - EPA 3545 ASE Extraction											
Blank (B9I0810-BLK1)					Prepared: 09/08/09	Analyzed: 09/09/09					
Benzo (k) fluoranthene	< 0.031	0.33	0.031	mg/kg wet							
Benzoic acid	< 0.058	0.33	0.058	mg/kg wet							
Benzyl alcohol	< 0.12	0.67	0.12	mg/kg wet							
Bis(2-chloroethoxy)methane	< 0.021	0.33	0.021	mg/kg wet							
Bis(2-chloroethyl)ether	< 0.024	0.33	0.024	mg/kg wet							
Bis(2-chloroisopropyl)ether	< 0.022	0.33	0.022	mg/kg wet							
Bis(2-ethylhexyl)phthalate	< 0.020	0.33	0.020	mg/kg wet							
Butyl benzyl phthalate	< 0.021	0.33	0.021	mg/kg wet							
Carbazole	< 0.022	0.33	0.022	mg/kg wet							
Chrysene	< 0.033	0.33	0.033	mg/kg wet							
Dibenz (a,h) anthracene	< 0.034	0.33	0.034	mg/kg wet							
Dibenzofuran	< 0.019	0.33	0.019	mg/kg wet							
Diethyl phthalate	< 0.015	0.33	0.015	mg/kg wet							
Dimethyl phthalate	< 0.018	0.33	0.018	mg/kg wet							
Di-n-butyl phthalate	0.109	0.33	0.037	mg/kg wet							J
Di-n-octyl phthalate	< 0.025	0.33	0.025	mg/kg wet							
Fluoranthene	< 0.024	0.33	0.024	mg/kg wet							
Fluorene	< 0.018	0.33	0.018	mg/kg wet							
Hexachlorobenzene	< 0.016	0.33	0.016	mg/kg wet							
Hexachlorobutadiene	< 0.033	0.33	0.033	mg/kg wet							
Hexachlorocyclopentadiene	< 0.041	0.33	0.041	mg/kg wet							
Hexachloroethane	< 0.028	0.33	0.028	mg/kg wet							
Indeno (1,2,3-cd) pyrene	< 0.032	0.33	0.032	mg/kg wet							
Isophorone	< 0.017	0.33	0.017	mg/kg wet							
Naphthalene	< 0.029	0.33	0.029	mg/kg wet							
Nitrobenzene	< 0.030	0.33	0.030	mg/kg wet							
N-Nitrosodimethylamine	< 0.032	0.33	0.032	mg/kg wet							
N-Nitrosodi-n-propylamine	< 0.025	0.33	0.025	mg/kg wet							
N-Nitrosodiphenylamine	< 0.018	0.33	0.018	mg/kg wet							
Pentachlorophenol	< 0.096	0.67	0.096	mg/kg wet							
Phenanthrene	< 0.019	0.33	0.019	mg/kg wet							
Phenol	< 0.057	0.67	0.057	mg/kg wet							
Pyrene	< 0.023	0.33	0.023	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	*3.55*			*mg/kg wet*	*6.67*		*53.3*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*3.93*			*mg/kg wet*	*6.67*		*59.0*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*3.88*			*mg/kg wet*	*6.67*		*58.2*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*3.86*			*mg/kg wet*	*6.67*		*57.8*	*49.1-86.9*			
Surrogate: Phenol-d6	*3.90*			*mg/kg wet*	*6.67*		*58.5*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.10*			*mg/kg wet*	*6.67*		*76.5*	*43.6-112*			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LEGEND Technical Services, Inc.
www.legend-group.com

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0810 - EPA 3545 ASE Extraction											
LCS (B9I0810-BS1)					Prepared: 09/08/09		Analyzed: 09/09/09				
1,2,4-Trichlorobenzene	4.65	0.33	0.027	mg/kg wet	6.67		69.8	50.7-82.1			
1,4-Dichlorobenzene	4.27	0.33	0.024	mg/kg wet	6.67		64.0	44-77			
2,4-Dinitrotoluene	4.72	0.33	0.021	mg/kg wet	6.67		70.9	56.7-81.7			
2-Chlorophenol	4.51	0.67	0.038	mg/kg wet	6.67		67.6	52.3-88.2			
4-Chloro-3-methylphenol	4.70	0.67	0.040	mg/kg wet	6.67		70.4	53.4-87			
4-Nitrophenol	4.65	0.67	0.099	mg/kg wet	6.67		69.8	55.7-87.1			
Anthracene	5.94	0.33	0.025	mg/kg wet	6.67		89.2	65.3-92			
Benzo (a) anthracene	5.76	0.33	0.027	mg/kg wet	6.67		86.4	69-95.3			
Benzo (a) pyrene	6.09	0.33	0.027	mg/kg wet	6.67		91.4	68.5-98.2			
Chrysene	5.62	0.33	0.033	mg/kg wet	6.67		84.4	68.6-94.2			
Fluoranthene	5.78	0.33	0.024	mg/kg wet	6.67		86.7	64.3-94.6			
Fluorene	5.26	0.33	0.018	mg/kg wet	6.67		78.9	61.9-89.4			
N-Nitrosodi-n-propylamine	4.87	0.33	0.025	mg/kg wet	6.67		73.1	55.5-91.1			
Pentachlorophenol	3.82	0.67	0.096	mg/kg wet	6.67		57.4	54.7-74.6			
Phenanthrene	5.70	0.33	0.019	mg/kg wet	6.67		85.6	64.3-90.9			
Phenol	4.67	0.67	0.057	mg/kg wet	6.67		70.1	49.7-85.4			
Surrogate: 2,4,6-Tribromophenol	*4.40*			*mg/kg wet*	*6.67*		*66.0*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*5.18*			*mg/kg wet*	*6.67*		*77.8*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*4.88*			*mg/kg wet*	*6.67*		*73.2*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.85*			*mg/kg wet*	*6.67*		*72.8*	*49.1-86.9*			
Surrogate: Phenol-d6	*4.99*			*mg/kg wet*	*6.67*		*74.8*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.37*			*mg/kg wet*	*6.67*		*80.6*	*43.6-112*			
Matrix Spike (B9I0810-MS1)		**Source: 0903926-05**			Prepared: 09/08/09		Analyzed: 09/09/09				
1,2,4-Trichlorobenzene	4.81	0.34	0.028	mg/kg dry	7.00	<0.34	68.8	51-77.5			
1,4-Dichlorobenzene	4.42	0.34	0.025	mg/kg dry	7.00	<0.34	63.1	41.7-73.4			
2,4-Dinitrotoluene	4.79	0.34	0.022	mg/kg dry	7.00	<0.34	68.5	50-84.8			
2-Chlorophenol	4.71	0.70	0.040	mg/kg dry	7.00	<0.70	67.4	47.8-90.8			
4-Chloro-3-methylphenol	4.81	0.70	0.042	mg/kg dry	7.00	<0.70	68.8	48.4-95.1			
4-Nitrophenol	4.59	0.70	0.10	mg/kg dry	7.00	<0.70	65.5	44-105			
Anthracene	6.04	0.34	0.026	mg/kg dry	7.00	<0.34	86.4	60.2-97.3			
Benzo (a) anthracene	5.88	0.34	0.028	mg/kg dry	7.00	<0.34	84.1	59.8-102			
Benzo (a) pyrene	6.11	0.34	0.028	mg/kg dry	7.00	<0.34	87.3	57.2-105			
Chrysene	5.67	0.34	0.034	mg/kg dry	7.00	<0.34	81.0	59.2-102			
Fluoranthene	5.89	0.34	0.025	mg/kg dry	7.00	<0.34	83.6	50.4-108			
Fluorene	5.47	0.34	0.019	mg/kg dry	7.00	<0.34	78.1	57.8-94.4			
N-Nitrosodi-n-propylamine	5.10	0.34	0.026	mg/kg dry	7.00	<0.34	72.9	46.2-96.2			
Pentachlorophenol	3.55	0.70	0.10	mg/kg dry	7.00	<0.70	50.8	53.6-80.4			M2
Phenanthrene	5.83	0.34	0.020	mg/kg dry	7.00	<0.34	83.3	58.4-97.5			
Phenol	4.86	0.70	0.059	mg/kg dry	7.00	<0.70	69.4	44-88.5			

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LEGEND Technical Services, Inc.
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Tel: 651-642-1150
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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0810 - EPA 3545 ASE Extraction											
Matrix Spike (B9I0810-MS1)		**Source: 0903926-05**			Prepared: 09/08/09		Analyzed: 09/09/09				
Surrogate: 2,4,6-Tribromophenol	*4.55*			*mg/kg dry*	*7.00*		*65.1*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*5.23*			*mg/kg dry*	*7.00*		*74.7*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*4.96*			*mg/kg dry*	*7.00*		*70.9*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.92*			*mg/kg dry*	*7.00*		*70.3*	*49.1-86.9*			
Surrogate: Phenol-d6	*5.07*			*mg/kg dry*	*7.00*		*72.5*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.38*			*mg/kg dry*	*7.00*		*76.9*	*43.6-112*			
Matrix Spike Dup (B9I0810-MSD1)		**Source: 0903926-05**			Prepared: 09/08/09		Analyzed: 09/09/09				
1,2,4-Trichlorobenzene	4.33	0.34	0.028	mg/kg dry	7.02	<0.34	61.7	51-77.5	10.5	15.7	
1,4-Dichlorobenzene	3.96	0.34	0.025	mg/kg dry	7.02	<0.34	56.4	41.7-73.4	10.9	14.7	
2,4-Dinitrotoluene	4.26	0.34	0.022	mg/kg dry	7.02	<0.34	60.7	50-84.8	11.6	20.5	
2-Chlorophenol	4.23	0.70	0.040	mg/kg dry	7.02	<0.70	60.2	47.8-90.8	10.9	19.8	
4-Chloro-3-methylphenol	4.19	0.70	0.042	mg/kg dry	7.02	<0.70	59.6	48.4-95.1	13.8	18.7	
4-Nitrophenol	4.10	0.70	0.10	mg/kg dry	7.02	<0.70	58.3	44-105	11.2	30.9	
Anthracene	5.28	0.34	0.026	mg/kg dry	7.02	<0.34	75.2	60.2-97.3	13.4	15.1	
Benzo (a) anthracene	5.28	0.34	0.028	mg/kg dry	7.02	<0.34	75.2	59.8-102	10.7	19.6	
Benzo (a) pyrene	5.49	0.34	0.028	mg/kg dry	7.02	<0.34	78.2	57.2-105	10.6	19.4	
Chrysene	5.07	0.34	0.034	mg/kg dry	7.02	<0.34	72.2	59.2-102	11.1	19.6	
Fluoranthene	5.17	0.34	0.025	mg/kg dry	7.02	<0.34	73.1	50.4-108	12.9	21	
Fluorene	4.95	0.34	0.019	mg/kg dry	7.02	<0.34	70.4	57.8-94.4	10.0	15.8	
N-Nitrosodi-n-propylamine	4.61	0.34	0.026	mg/kg dry	7.02	<0.34	65.7	46.2-96.2	9.96	17.1	
Pentachlorophenol	3.07	0.70	0.10	mg/kg dry	7.02	<0.70	43.7	53.6-80.4	14.6	22.4	M2
Phenanthrene	5.16	0.34	0.020	mg/kg dry	7.02	<0.34	73.4	58.4-97.5	12.2	14.3	
Phenol	4.32	0.70	0.059	mg/kg dry	7.02	<0.70	61.6	44-88.5	11.6	21.5	
Surrogate: 2,4,6-Tribromophenol	*4.08*			*mg/kg dry*	*7.02*		*58.1*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*4.69*			*mg/kg dry*	*7.02*		*66.8*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*4.49*			*mg/kg dry*	*7.02*		*64.0*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.47*			*mg/kg dry*	*7.02*		*63.7*	*49.1-86.9*			
Surrogate: Phenol-d6	*4.56*			*mg/kg dry*	*7.02*		*64.9*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*4.77*			*mg/kg dry*	*7.02*		*67.9*	*43.6-112*			

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903873
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

Notes and Definitions

S-BN	Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.
S-AC	Acid surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two acid surrogates.
M2	Matrix spike recovery was low, the associated blank spike recovery was acceptable.
J	Parameter was present between the MDL and RL and should be considered an estimated value
B	Analyte was present in the method blank. Sample result is less than or equal to 5 times the blank concentration.
<	Less than value listed
dry	Sample results reported on a dry weight basis
NA	Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL	Method Detection Limit
RL	Reporting Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
MS	Matrix Spike = Laboratory Fortified Matrix (LFM)

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0903873

Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

COC 1 of 2

Project Number: 23/19-0805073 1R1 300

Project Name: UMore UMA - SS1 R1

№ 28793

Project Manager: JSA/JME

Project Contact: KJN/AAN

Sampled by: KCB/KJN

Laboratory: Legend

	Sample Identification	Collection Date	Collection Time	Matrix Water	Matrix Soil	Type Grab	Type Comp.	Type OC	Water: Volatile Organics (Pres.) *1	Semivolatile Organics *2	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	General (Unpreserved) *3	Cyanide (NaOH)	Nutrients (H_2SO_4) *4	Oil and Grease (H_2SO_4)	Sulfide (Zn Acetate)	Methane	Bacteria ($Na_2S_2O_3$)	DRO (HCl)	Soil: VOCs (2-oz tared MeOH) *1	GRO, BTEX (2-oz tared MeOH) *1	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.) *2	% Moisture (plastic vial, unpres.)	Total No. Of Containers	Remarks
01	1. SOC5-SS2-0.5'	8/31/09	935		X	X																		X	X	X		3	Analyze SVOC + PPL metals
02	2. SOC5-SS14-0.5'		1025		X	X																			X	X		2	Analyze SVOCs
03	3. SOC5-SS12 0.5'		1035		X	X																			X	X		2	↓
04	4. SOC5-SS1-0.5'		1050		X	X																		X	X	X		3	Analyze SVOCs + PPL metals
05	5. SOC5-SS18-0.5'		1115		X	X																			X	X		2	Analyze SVOCs
06	6. SOC5-SS20-0.5'		1125		X	X																			X	X		2	↓
07	7. SOC5-SS16-0.5'		1135		X	X																			X	X		2	↓
08	8. SOC5-SS4-0.5'		1145		X	X																		X	X	X		3	Analyze SVOCs + PPL metals
09	9. SOC5-SS22-0.5'		1245		X	X																			X	X		2	Analyze SVOCs
10	10. SOC5-SS26-0.5'		1255		X	X																			X	X		2	↓
11	11. SOC5-SS24-0.5'		1305		X	X																			X	X		2	↓
12	12. SOC5-SS3-0.5'	↓	1325		X	X																		X	X	X		3	Analyze SVOCs + PPL metals

Common Parameter/Container - Preservation Key

*1 - Volatile Organics = BTEX, GRO, TPH, Full List
*2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
*3 - General = pH, Chloride, Flouride, Alkalinity, TSS, TDS, TS, Sulfate
*4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice? Y N	Date	Time	Received by:	Date	Time
Relinquished By:	On Ice? Y N	Date	Time	Received by: [signature]	9/1/09	10:45

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other _____

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

RR 2.3°C

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0903873

Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

COC 2 of 2

Project Manager: JSA/JME
Project Contact: KJN/AAN
Sampled by: KCB/KJN
Laboratory: Legend

Project Number: 23/19-0805.07 S1 R1 300
Project Name: UMore UMA - SS1/R1
№ 28795

Number of Containers/Preservative — Water: Volatile Organics (Pres.) *1; Semivolatile Organics *2; Dissolved Metals (HNO_3); Total Metals (HNO_3); General (Unpreserved) *3; Cyanide (NaOH); Nutrients (H_2SO_4) *4; Oil and Grease (H_2SO_4); Sulfide (Zn Acetate); Methane; Bacteria ($Na_2S_2O_3$); DRO (HCl). Soil: VOCs (2-oz tared MeOH) *1; GRO, BTEX (2-oz tared MeOH) *1; DRO (2-oz tared) - 25 grams; Metals (2-oz unpreserved); SVOCs (2 or 4-oz unpres.) *2; % Moisture (plastic vial, unpres.)

	Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Total No. Of Containers	Remarks
13	1. SOCS-SS46-0.5'	8/31/09	1340		X	X			2	Analyze PCBs
14	2. SOCS-SS28-0.5'	↓	1500		X	X			2	Analyze SVOCs
15	3. SOCS-SS32-0.5'		1515		X	X			2	↓
16	4. SOCS-SS5-0.5'		1530		X	X			2	
17	5. SOCS-SS6-0.5'		1555		X	X			3	Analyze SVOCs + PPL metals
	6.								3	↓ per A. Nord TAO 9/1/09
18	7. SOCS-SS30-0.5'	8/31/09	1525		X	X			2	SVOC
	8.		From 2 oz Solids container							
	9.									
	10.									
	11.									
	12.									

Common Parameter/Container - Preservation Key
- *1 - Volatile Organics = BTEX, GRO, TPH, Full List
- *2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
- *3 - General = pH, Chloride, Flouride, Alkalinity, TSS, TDS, TS, Sulfate
- *4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice? Y N	Date	Time	Received by:	Date	Time
Relinquished By:	On Ice? Y N	Date	Time	Received by: BPhm	9/1/09	1045

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other _____
Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

PR 2.3°c

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September 16, 2009

Ms. Kelly Neppl
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0903879
RE: 23/19-0B05.07

Enclosed are the results of analyses for samples received by the laboratory on 09/01/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of this report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

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Client Manager II
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Erica Nastrom
QA/QC Coordinator
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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC5-GP6 (1-2)	0903879-01	Soil	08/31/09 09:25	09/01/09 10:45
SOC5-GP6 (18-20)	0903879-02	Soil	08/31/09 10:45	09/01/09 10:45
SOC5-GP5 (1.5-2.5)	0903879-03	Soil	08/31/09 11:30	09/01/09 10:45
SOC5-GP5 (10-12)	0903879-04	Soil	08/31/09 12:05	09/01/09 10:45
SOC5-GP7 (0.5-2)	0903879-05	Soil	08/31/09 13:15	09/01/09 10:45
SOC5-GP7 (19-20)	0903879-06	Soil	08/31/09 13:50	09/01/09 10:45
SOC5-GP8 (1-1.5)	0903879-07	Soil	08/31/09 14:30	09/01/09 10:45
SOC5-GP8 (5-7)	0903879-08	Soil	08/31/09 15:15	09/01/09 10:45
SOC5-GP4 (4-6)	0903879-09	Soil	08/31/09 16:30	09/01/09 10:45

Shipping Container Information

Default Cooler Temperature (°C): 2.3

Received on ice: Yes
Received on melt water: No
Custody seals: No

Temperature blank was present
Ambient: No

Received on ice pack: No
Acceptable (IH/ISO only): No

Case Narrative:

MN Certification does not apply to dichlorofluoromethane, tetrahydrofuran, and 1,1,2-trichlorotrifluoroethane in the 8260B analysis or to carbazole in the 8270C analysis.

Recovery for the 8270 SVOC compound pentachlorophenol was below laboratory limits in the batch B9I0810 MS/MSD. All spike compounds and surrogates were within limits in the batch method blank and LCS. The MS/MSD source sample was not associated with this work order.

Di-n-butyl phthalate was detected in the 8270 water batch B9I0810 method blank between the MDL and RL. Samples where the di-n-butyl phthalate result was equal to or less than five times the blank concentration are flagged.

Antimony recovery was below laboratory limits and zinc recovery was above laboratory limits in the batch B9I0311 MS. The resulting MS/MSD %RPD for zinc was outside of laboratory control limits but was acceptable for antimony. Antimony and zinc recoveries in the LCS/LCSD/MSD samples and the corresponding %RPD for the LCS/LCSD samples were within limits. The MS/MSD source sample was not associated with this work order.

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP6 (1-2) (0903879-01) Soil Sampled: 08/31/09 09:25 Received: 09/01/09 10:45										
Antimony	<0.55	0.55	0.0060	mg/kg dry	1	B9I0311	09/03/09	09/14/09	EPA 6010B	
Arsenic	**4.1**	0.55	0.11	mg/kg dry	1	"	"	"	"	
Beryllium	<0.27	0.27	0.012	mg/kg dry	1	"	"	"	"	
Cadmium	<0.27	0.27	0.027	mg/kg dry	1	"	"	"	"	
Chromium	**11**	0.55	0.013	mg/kg dry	1	"	"	"	"	
Copper	**11**	1.1	0.077	mg/kg dry	1	"	"	"	"	
Lead	**5.8**	1.1	0.037	mg/kg dry	1	"	"	"	"	
Mercury	<0.11	0.11	0.0020	mg/kg dry	1	B9I0315	09/03/09	09/04/09	EPA 7471A	
Nickel	**13**	0.55	0.015	mg/kg dry	1	B9I0311	09/03/09	09/14/09	EPA 6010B	
Selenium	<1.1	1.1	0.12	mg/kg dry	1	"	"	"	"	
Silver	<0.27	0.27	0.0099	mg/kg dry	1	"	"	"	"	
Thallium	<2.2	2.2	0.14	mg/kg dry	1	"	"	"	"	
Zinc	**6.1**	1.1	0.24	mg/kg dry	1	"	"	"	"	
SOC5-GP6 (18-20) (0903879-02) Soil Sampled: 08/31/09 10:45 Received: 09/01/09 10:45										
Antimony	<0.52	0.52	0.0057	mg/kg dry	1	B9I0311	09/03/09	09/14/09	EPA 6010B	
Arsenic	**1.6**	0.52	0.10	mg/kg dry	1	"	"	"	"	
Beryllium	<0.26	0.26	0.011	mg/kg dry	1	"	"	"	"	
Cadmium	<0.26	0.26	0.026	mg/kg dry	1	"	"	"	"	
Chromium	**7.8**	0.52	0.012	mg/kg dry	1	"	"	"	"	
Copper	**9.9**	1.0	0.072	mg/kg dry	1	"	"	"	"	
Lead	**2.5**	1.0	0.035	mg/kg dry	1	"	"	"	"	
Mercury	<0.10	0.10	0.0019	mg/kg dry	1	B9I0315	09/03/09	09/04/09	EPA 7471A	
Nickel	**14**	0.52	0.014	mg/kg dry	1	B9I0311	09/03/09	09/14/09	EPA 6010B	
Selenium	<1.0	1.0	0.11	mg/kg dry	1	"	"	"	"	
Silver	<0.26	0.26	0.0093	mg/kg dry	1	"	"	"	"	
Thallium	<2.1	2.1	0.13	mg/kg dry	1	"	"	"	"	
Zinc	<1.0	1.0	0.23	mg/kg dry	1	"	"	"	"	
SOC5-GP5 (1.5-2.5) (0903879-03) Soil Sampled: 08/31/09 11:30 Received: 09/01/09 10:45										
Antimony	<0.52	0.52	0.0057	mg/kg dry	1	B9I0311	09/03/09	09/14/09	EPA 6010B	
Arsenic	**9.4**	0.52	0.10	mg/kg dry	1	"	"	"	"	
Beryllium	<0.26	0.26	0.011	mg/kg dry	1	"	"	"	"	
Cadmium	<0.26	0.26	0.026	mg/kg dry	1	"	"	"	"	
Chromium	**10**	0.52	0.012	mg/kg dry	1	"	"	"	"	
Copper	**6.9**	1.0	0.072	mg/kg dry	1	"	"	"	"	
Lead	**5.3**	1.0	0.035	mg/kg dry	1	"	"	"	"	
Mercury	<0.10	0.10	0.0019	mg/kg dry	1	B9I0315	09/03/09	09/04/09	EPA 7471A	
Nickel	**10**	0.52	0.014	mg/kg dry	1	B9I0311	09/03/09	09/14/09	EPA 6010B	

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Barr Engineering Co.	Project:	23/19-0B05.07			
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300		Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/16/09

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP5 (1.5-2.5) (0903879-03) Soil Sampled: 08/31/09 11:30 Received: 09/01/09 10:45										
Selenium	<1.0	1.0	0.11	mg/kg dry	1	B9I0311	09/03/09	09/14/09	EPA 6010B	
Silver	<0.26	0.26	0.0093	mg/kg dry	1	"	"	"	"	
Thallium	<2.1	2.1	0.13	mg/kg dry	1	"	"	"	"	
Zinc	**7.0**	1.0	0.23	mg/kg dry	1	"	"	"	"	
SOC5-GP5 (10-12) (0903879-04) Soil Sampled: 08/31/09 12:05 Received: 09/01/09 10:45										
Antimony	<0.52	0.52	0.0057	mg/kg dry	1	B9I0311	09/03/09	09/14/09	EPA 6010B	
Arsenic	**1.0**	0.52	0.10	mg/kg dry	1	"	"	"	"	
Beryllium	<0.26	0.26	0.011	mg/kg dry	1	"	"	"	"	
Cadmium	<0.26	0.26	0.026	mg/kg dry	1	"	"	"	"	
Chromium	**4.1**	0.52	0.012	mg/kg dry	1	"	"	"	"	
Copper	**3.6**	1.0	0.073	mg/kg dry	1	"	"	"	"	
Lead	**1.5**	1.0	0.035	mg/kg dry	1	"	"	"	"	
Mercury	<0.10	0.10	0.0019	mg/kg dry	1	B9I0315	09/03/09	09/04/09	EPA 7471A	
Nickel	**4.6**	0.52	0.015	mg/kg dry	1	B9I0311	09/03/09	09/14/09	EPA 6010B	
Selenium	<1.0	1.0	0.11	mg/kg dry	1	"	"	"	"	
Silver	<0.26	0.26	0.0094	mg/kg dry	1	"	"	"	"	
Thallium	<2.1	2.1	0.14	mg/kg dry	1	"	"	"	"	
Zinc	**4.2**	1.0	0.23	mg/kg dry	1	"	"	"	"	
SOC5-GP7 (0.5-2) (0903879-05) Soil Sampled: 08/31/09 13:15 Received: 09/01/09 10:45										
Antimony	<0.52	0.52	0.0057	mg/kg dry	1	B9I0311	09/03/09	09/14/09	EPA 6010B	
Arsenic	**2.3**	0.52	0.10	mg/kg dry	1	"	"	"	"	
Beryllium	<0.26	0.26	0.011	mg/kg dry	1	"	"	"	"	
Cadmium	<0.26	0.26	0.026	mg/kg dry	1	"	"	"	"	
Chromium	**8.0**	0.52	0.012	mg/kg dry	1	"	"	"	"	
Copper	**8.8**	1.0	0.072	mg/kg dry	1	"	"	"	"	
Lead	**20**	1.0	0.035	mg/kg dry	1	"	"	"	"	
Mercury	<0.10	0.10	0.0019	mg/kg dry	1	B9I0315	09/03/09	09/04/09	EPA 7471A	
Nickel	**9.4**	0.52	0.014	mg/kg dry	1	B9I0311	09/03/09	09/14/09	EPA 6010B	
Selenium	<1.0	1.0	0.11	mg/kg dry	1	"	"	"	"	
Silver	<0.26	0.26	0.0093	mg/kg dry	1	"	"	"	"	
Thallium	<2.1	2.1	0.13	mg/kg dry	1	"	"	"	"	
Zinc	**9.3**	1.0	0.23	mg/kg dry	1	"	"	"	"	
SOC5-GP7 (19-20) (0903879-06) Soil Sampled: 08/31/09 13:50 Received: 09/01/09 10:45										
Antimony	<0.52	0.52	0.0057	mg/kg dry	1	B9I0311	09/03/09	09/14/09	EPA 6010B	
Arsenic	**0.89**	0.52	0.10	mg/kg dry	1	"	"	"	"	
Beryllium	<0.26	0.26	0.011	mg/kg dry	1	"	"	"	"	
Cadmium	<0.26	0.26	0.026	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP7 (19-20) (0903879-06) Soil Sampled: 08/31/09 13:50 Received: 09/01/09 10:45										
Chromium	**3.9**	0.52	0.012	mg/kg dry	1	B9I0311	09/03/09	09/14/09	EPA 6010B	
Copper	**3.0**	1.0	0.073	mg/kg dry	1	"	"	"	"	
Lead	**1.2**	1.0	0.035	mg/kg dry	1	"	"	"	"	
Mercury	<0.10	0.10	0.0019	mg/kg dry	1	B9I0315	09/03/09	09/04/09	EPA 7471A	
Nickel	**3.9**	0.52	0.015	mg/kg dry	1	B9I0311	09/03/09	09/14/09	EPA 6010B	
Selenium	<1.0	1.0	0.11	mg/kg dry	1	"	"	"	"	
Silver	<0.26	0.26	0.0094	mg/kg dry	1	"	"	"	"	
Thallium	<2.1	2.1	0.14	mg/kg dry	1	"	"	"	"	
Zinc	<1.0	1.0	0.23	mg/kg dry	1	"	"	"	"	
SOC5-GP8 (1-1.5) (0903879-07) Soil Sampled: 08/31/09 14:30 Received: 09/01/09 10:45										
Antimony	**0.58**	0.56	0.0061	mg/kg dry	1	B9I0311	09/03/09	09/14/09	EPA 6010B	
Arsenic	**4.7**	0.56	0.11	mg/kg dry	1	"	"	"	"	
Beryllium	<0.28	0.28	0.012	mg/kg dry	1	"	"	"	"	
Cadmium	**0.31**	0.28	0.028	mg/kg dry	1	"	"	"	"	
Chromium	**11**	0.56	0.013	mg/kg dry	1	"	"	"	"	
Copper	**21**	1.1	0.078	mg/kg dry	1	"	"	"	"	
Lead	**300**	1.1	0.038	mg/kg dry	1	"	"	"	"	
Mercury	<0.11	0.11	0.0020	mg/kg dry	1	B9I0315	09/03/09	09/04/09	EPA 7471A	
Nickel	**12**	0.56	0.016	mg/kg dry	1	B9I0311	09/03/09	09/14/09	EPA 6010B	
Selenium	<1.1	1.1	0.12	mg/kg dry	1	"	"	"	"	
Silver	<0.28	0.28	0.010	mg/kg dry	1	"	"	"	"	
Thallium	<2.2	2.2	0.14	mg/kg dry	1	"	"	"	"	
Zinc	**56**	1.1	0.24	mg/kg dry	1	"	"	"	"	
SOC5-GP8 (5-7) (0903879-08) Soil Sampled: 08/31/09 15:15 Received: 09/01/09 10:45										
Antimony	<0.52	0.52	0.0057	mg/kg dry	1	B9I0311	09/03/09	09/14/09	EPA 6010B	
Arsenic	**1.4**	0.52	0.10	mg/kg dry	1	"	"	"	"	
Beryllium	<0.26	0.26	0.011	mg/kg dry	1	"	"	"	"	
Cadmium	<0.26	0.26	0.026	mg/kg dry	1	"	"	"	"	
Chromium	**6.5**	0.52	0.012	mg/kg dry	1	"	"	"	"	
Copper	**6.3**	1.0	0.072	mg/kg dry	1	"	"	"	"	
Lead	**1.9**	1.0	0.035	mg/kg dry	1	"	"	"	"	
Mercury	<0.10	0.10	0.0019	mg/kg dry	1	B9I0315	09/03/09	09/04/09	EPA 7471A	
Nickel	**7.2**	0.52	0.014	mg/kg dry	1	B9I0311	09/03/09	09/14/09	EPA 6010B	
Selenium	<1.0	1.0	0.11	mg/kg dry	1	"	"	"	"	
Silver	<0.26	0.26	0.0093	mg/kg dry	1	"	"	"	"	
Thallium	<2.1	2.1	0.13	mg/kg dry	1	"	"	"	"	
Zinc	**5.0**	1.0	0.23	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP4 (4-6) (0903879-09) Soil Sampled: 08/31/09 16:30 Received: 09/01/09 10:45										
Antimony	<0.62	0.62	0.0069	mg/kg dry	1	B9I0311	09/03/09	09/14/09	EPA 6010B	
Arsenic	**8.4**	0.62	0.12	mg/kg dry	1	"	"	"	"	
Beryllium	**0.48**	0.31	0.014	mg/kg dry	1	"	"	"	"	
Cadmium	<0.31	0.31	0.031	mg/kg dry	1	"	"	"	"	
Chromium	**14**	0.62	0.015	mg/kg dry	1	"	"	"	"	
Copper	**9.6**	1.2	0.088	mg/kg dry	1	"	"	"	"	
Lead	**10**	1.2	0.042	mg/kg dry	1	"	"	"	"	
Mercury	<0.12	0.12	0.0022	mg/kg dry	1	B9I0315	09/03/09	09/04/09	EPA 7471A	
Nickel	**15**	0.62	0.018	mg/kg dry	1	B9I0311	09/03/09	09/14/09	EPA 6010B	
Selenium	<1.2	1.2	0.14	mg/kg dry	1	"	"	"	"	
Silver	<0.31	0.31	0.011	mg/kg dry	1	"	"	"	"	
Thallium	<2.5	2.5	0.16	mg/kg dry	1	"	"	"	"	
Zinc	**24**	1.2	0.28	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

PERCENT SOLIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP6 (1-2) (0903879-01) Soil Sampled: 08/31/09 09:25 Received: 09/01/09 10:45										
% Solids	**91**			%	1	B9I0806	09/08/09	09/08/09	% calculation	
SOC5-GP6 (18-20) (0903879-02) Soil Sampled: 08/31/09 10:45 Received: 09/01/09 10:45										
% Solids	**97**			%	1	B9I0806	09/08/09	09/08/09	% calculation	
SOC5-GP5 (1.5-2.5) (0903879-03) Soil Sampled: 08/31/09 11:30 Received: 09/01/09 10:45										
% Solids	**97**			%	1	B9I0806	09/08/09	09/08/09	% calculation	
SOC5-GP5 (10-12) (0903879-04) Soil Sampled: 08/31/09 12:05 Received: 09/01/09 10:45										
% Solids	**96**			%	1	B9I0806	09/08/09	09/08/09	% calculation	
SOC5-GP7 (0.5-2) (0903879-05) Soil Sampled: 08/31/09 13:15 Received: 09/01/09 10:45										
% Solids	**97**			%	1	B9I0806	09/08/09	09/08/09	% calculation	
SOC5-GP7 (19-20) (0903879-06) Soil Sampled: 08/31/09 13:50 Received: 09/01/09 10:45										
% Solids	**96**			%	1	B9I0806	09/08/09	09/08/09	% calculation	
SOC5-GP8 (1-1.5) (0903879-07) Soil Sampled: 08/31/09 14:30 Received: 09/01/09 10:45										
% Solids	**90**			%	1	B9I0806	09/08/09	09/08/09	% calculation	
SOC5-GP8 (5-7) (0903879-08) Soil Sampled: 08/31/09 15:15 Received: 09/01/09 10:45										
% Solids	**97**			%	1	B9I0806	09/08/09	09/08/09	% calculation	
SOC5-GP4 (4-6) (0903879-09) Soil Sampled: 08/31/09 16:30 Received: 09/01/09 10:45										
% Solids	**80**			%	1	B9I0806	09/08/09	09/08/09	% calculation	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP6 (1-2) (0903879-01) Soil Sampled: 08/31/09 09:25 Received: 09/01/09 10:45										
1,2,4-Trichlorobenzene	<0.030	0.36	0.030	mg/kg dry	1	B9I0810	09/08/09	09/09/09	EPA 8270C	
1,2-Dichlorobenzene	<0.027	0.36	0.027	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.022	0.36	0.022	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.025	0.36	0.025	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.026	0.36	0.026	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.042	0.74	0.042	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.026	0.74	0.026	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.038	0.74	0.038	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.038	0.74	0.038	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.099	0.74	0.099	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.064	0.74	0.064	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.023	0.36	0.023	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.047	0.74	0.047	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.021	0.36	0.021	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.021	0.36	0.021	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.042	0.74	0.042	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.031	0.36	0.031	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.038	0.74	0.038	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.022	0.36	0.022	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.040	0.74	0.040	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.43	1.8	0.43	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.036	0.36	0.036	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.081	0.74	0.081	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.019	0.36	0.019	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.044	0.74	0.044	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.12	0.74	0.12	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.025	0.36	0.025	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.030	0.74	0.030	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.025	0.36	0.025	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.74	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.031	0.36	0.031	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.025	0.36	0.025	mg/kg dry	1	"	"	"	"	
Aniline	<0.099	0.74	0.099	mg/kg dry	1	"	"	"	"	
Anthracene	<0.027	0.36	0.027	mg/kg dry	1	"	"	"	"	
Benzidine	<0.79	2.7	0.79	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.030	0.36	0.030	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.030	0.36	0.030	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.037	0.36	0.037	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.033	0.36	0.033	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP6 (1-2) (0903879-01) Soil Sampled: 08/31/09 09:25 Received: 09/01/09 10:45										
Benzo (k) fluoranthene	<0.034	0.36	0.034	mg/kg dry	1	B9I0810	09/08/09	09/09/09	EPA 8270C	
Benzoic acid	<0.064	0.36	0.064	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.13	0.74	0.13	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.023	0.36	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.026	0.36	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.024	0.36	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.022	0.36	0.022	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.023	0.36	0.023	mg/kg dry	1	"	"	"	"	
Carbazole	<0.024	0.36	0.024	mg/kg dry	1	"	"	"	"	
Chrysene	<0.036	0.36	0.036	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.037	0.36	0.037	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.021	0.36	0.021	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.016	0.36	0.016	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.020	0.36	0.020	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	**0.10**	0.36	0.041	mg/kg dry	1	"	"	"	"	B, J
Di-n-octyl phthalate	<0.027	0.36	0.027	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.026	0.36	0.026	mg/kg dry	1	"	"	"	"	
Fluorene	<0.020	0.36	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.018	0.36	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.036	0.36	0.036	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.045	0.36	0.045	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.031	0.36	0.031	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.035	0.36	0.035	mg/kg dry	1	"	"	"	"	
Isophorone	<0.019	0.36	0.019	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.032	0.36	0.032	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.033	0.36	0.033	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.035	0.36	0.035	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.027	0.36	0.027	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.020	0.36	0.020	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.74	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.021	0.36	0.021	mg/kg dry	1	"	"	"	"	
Phenol	<0.063	0.74	0.063	mg/kg dry	1	"	"	"	"	
Pyrene	<0.025	0.36	0.025	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*54.4*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*63.4*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*59.5*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*59.4*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*62.7*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*78.7*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP6 (18-20) (0903879-02) Soil Sampled: 08/31/09 10:45 Received: 09/01/09 10:45										
1,2,4-Trichlorobenzene	<0.028	0.34	0.028	mg/kg dry	1	B9I0810	09/08/09	09/09/09	EPA 8270C	
1,2-Dichlorobenzene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.039	0.69	0.039	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.025	0.69	0.025	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.036	0.69	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.036	0.69	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.093	0.69	0.093	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.060	0.69	0.060	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.044	0.69	0.044	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.039	0.69	0.039	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.036	0.69	0.036	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.037	0.69	0.037	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.40	1.6	0.40	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.076	0.69	0.076	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.041	0.69	0.041	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.11	0.69	0.11	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.028	0.69	0.028	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.10	0.69	0.10	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Aniline	<0.093	0.69	0.093	mg/kg dry	1	"	"	"	"	
Anthracene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Benzidine	<0.74	2.6	0.74	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP6 (18-20) (0903879-02) Soil	**Sampled: 08/31/09 10:45**			**Received: 09/01/09 10:45**						
Benzo (k) fluoranthene	<0.032	0.34	0.032	mg/kg dry	1	B9I0810	09/08/09	09/09/09	EPA 8270C	
Benzoic acid	<0.060	0.34	0.060	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.12	0.69	0.12	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Carbazole	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Chrysene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.015	0.34	0.015	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	**0.098**	0.34	0.038	mg/kg dry	1	"	"	"	"	B, J
Di-n-octyl phthalate	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
Fluorene	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.016	0.34	0.016	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.042	0.34	0.042	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
Isophorone	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.030	0.34	0.030	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.099	0.69	0.099	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
Phenol	<0.059	0.69	0.059	mg/kg dry	1	"	"	"	"	
Pyrene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*58.4*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*70.9*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*65.5*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*67.0*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*68.4*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*95.7*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP5 (1.5-2.5) (0903879-03) Soil	**Sampled: 08/31/09 11:30**			**Received: 09/01/09 10:45**						
1,2,4-Trichlorobenzene	<0.028	0.34	0.028	mg/kg dry	1	B9I0810	09/08/09	09/09/09	EPA 8270C	
1,2-Dichlorobenzene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.039	0.69	0.039	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.025	0.69	0.025	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.036	0.69	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.036	0.69	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.093	0.69	0.093	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.060	0.69	0.060	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.044	0.69	0.044	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.039	0.69	0.039	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.036	0.69	0.036	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.037	0.69	0.037	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.40	1.6	0.40	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.076	0.69	0.076	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.041	0.69	0.041	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.11	0.69	0.11	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.028	0.69	0.028	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.10	0.69	0.10	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Aniline	<0.093	0.69	0.093	mg/kg dry	1	"	"	"	"	
Anthracene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Benzidine	<0.74	2.6	0.74	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP5 (1.5-2.5) (0903879-03) Soil	**Sampled: 08/31/09 11:30**			**Received: 09/01/09 10:45**						
Benzo (k) fluoranthene	<0.032	0.34	0.032	mg/kg dry	1	B9I0810	09/08/09	09/09/09	EPA 8270C	
Benzoic acid	<0.060	0.34	0.060	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.12	0.69	0.12	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Carbazole	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Chrysene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.015	0.34	0.015	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	**0.090**	0.34	0.038	mg/kg dry	1	"	"	"	"	B, J
Di-n-octyl phthalate	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
Fluorene	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.016	0.34	0.016	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.042	0.34	0.042	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
Isophorone	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.030	0.34	0.030	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.099	0.69	0.099	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
Phenol	<0.059	0.69	0.059	mg/kg dry	1	"	"	"	"	
Pyrene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*53.4*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*63.5*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*59.7*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*61.4*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*62.9*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*81.2*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP5 (10-12) (0903879-04) Soil Sampled: 08/31/09 12:05 Received: 09/01/09 10:45										
1,2,4-Trichlorobenzene	<0.028	0.34	0.028	mg/kg dry	1	B9I0810	09/08/09	09/09/09	EPA 8270C	
1,2-Dichlorobenzene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.040	0.70	0.040	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.025	0.70	0.025	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.036	0.70	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.036	0.70	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.094	0.70	0.094	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.060	0.70	0.060	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.045	0.70	0.045	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.040	0.70	0.040	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.036	0.70	0.036	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.038	0.70	0.038	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.41	1.7	0.41	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.077	0.70	0.077	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.042	0.70	0.042	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.11	0.70	0.11	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.028	0.70	0.028	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.10	0.70	0.10	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Aniline	<0.094	0.70	0.094	mg/kg dry	1	"	"	"	"	
Anthracene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Benzidine	<0.75	2.6	0.75	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07			
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300		Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/16/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP5 (10-12) (0903879-04) Soil	**Sampled: 08/31/09 12:05**			**Received: 09/01/09 10:45**						
Benzo (k) fluoranthene	<0.032	0.34	0.032	mg/kg dry	1	B9I0810	09/08/09	09/09/09	EPA 8270C	
Benzoic acid	<0.060	0.34	0.060	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.12	0.70	0.12	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Carbazole	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Chrysene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.016	0.34	0.016	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	**0.11**	0.34	0.039	mg/kg dry	1	"	"	"	"	B, J
Di-n-octyl phthalate	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
Fluorene	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.017	0.34	0.017	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.043	0.34	0.043	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
Isophorone	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.030	0.34	0.030	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.10	0.70	0.10	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
Phenol	<0.059	0.70	0.059	mg/kg dry	1	"	"	"	"	
Pyrene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*67.0*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*72.0*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*69.4*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*60.5*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*69.8*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*87.4*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP7 (0.5-2) (0903879-05) Soil Sampled: 08/31/09 13:15 Received: 09/01/09 10:45										
1,2,4-Trichlorobenzene	<0.028	0.34	0.028	mg/kg dry	1	B9I0810	09/08/09	09/11/09	EPA 8270C	
1,2-Dichlorobenzene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.039	0.69	0.039	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.025	0.69	0.025	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.036	0.69	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.036	0.69	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.093	0.69	0.093	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.060	0.69	0.060	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.044	0.69	0.044	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.039	0.69	0.039	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.036	0.69	0.036	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.037	0.69	0.037	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.40	1.6	0.40	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.076	0.69	0.076	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.041	0.69	0.041	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.11	0.69	0.11	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.028	0.69	0.028	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.10	0.69	0.10	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Aniline	<0.093	0.69	0.093	mg/kg dry	1	"	"	"	"	
Anthracene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Benzidine	<0.74	2.6	0.74	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP7 (0.5-2) (0903879-05) Soil Sampled: 08/31/09 13:15 Received: 09/01/09 10:45										
Benzo (k) fluoranthene	<0.032	0.34	0.032	mg/kg dry	1	B9I0810	09/08/09	09/11/09	EPA 8270C	
Benzoic acid	<0.060	0.34	0.060	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.12	0.69	0.12	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Carbazole	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Chrysene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.015	0.34	0.015	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.038	0.34	0.038	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
Fluorene	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.016	0.34	0.016	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.042	0.34	0.042	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
Isophorone	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.030	0.34	0.030	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.099	0.69	0.099	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
Phenol	<0.059	0.69	0.059	mg/kg dry	1	"	"	"	"	
Pyrene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*61.9*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*59.7*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*62.9*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*61.2*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*69.4*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*57.0*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP7 (19-20) (0903879-06) Soil Sampled: 08/31/09 13:50 Received: 09/01/09 10:45										
1,2,4-Trichlorobenzene	<0.028	0.34	0.028	mg/kg dry	1	B9I0810	09/08/09	09/10/09	EPA 8270C	
1,2-Dichlorobenzene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.040	0.70	0.040	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.025	0.70	0.025	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.036	0.70	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.036	0.70	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.094	0.70	0.094	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.060	0.70	0.060	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.045	0.70	0.045	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.040	0.70	0.040	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.036	0.70	0.036	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.038	0.70	0.038	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.41	1.7	0.41	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.077	0.70	0.077	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.042	0.70	0.042	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.11	0.70	0.11	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.028	0.70	0.028	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.10	0.70	0.10	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Aniline	<0.094	0.70	0.094	mg/kg dry	1	"	"	"	"	
Anthracene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Benzidine	<0.75	2.6	0.75	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP7 (19-20) (0903879-06) Soil Sampled: 08/31/09 13:50 Received: 09/01/09 10:45										
Benzo (k) fluoranthene	<0.032	0.34	0.032	mg/kg dry	1	B9I0810	09/08/09	09/10/09	EPA 8270C	
Benzoic acid	<0.060	0.34	0.060	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.12	0.70	0.12	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Carbazole	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Chrysene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.016	0.34	0.016	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.039	0.34	0.039	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
Fluorene	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.017	0.34	0.017	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.043	0.34	0.043	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
Isophorone	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.030	0.34	0.030	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.10	0.70	0.10	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
Phenol	<0.059	0.70	0.059	mg/kg dry	1	"	"	"	"	
Pyrene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*82.0*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*70.9*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*75.1*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*74.5*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*80.3*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*66.4*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP8 (1-1.5) (0903879-07) Soil Sampled: 08/31/09 14:30 Received: 09/01/09 10:45										
1,2,4-Trichlorobenzene	<0.036	0.44	0.036	mg/kg dry	1	B9I0810	09/08/09	09/09/09	EPA 8270C	
1,2-Dichlorobenzene	<0.033	0.44	0.033	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.027	0.44	0.027	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.031	0.44	0.031	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.032	0.44	0.032	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.051	0.89	0.051	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.032	0.89	0.032	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.047	0.89	0.047	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.047	0.89	0.047	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.12	0.89	0.12	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.077	0.89	0.077	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.028	0.44	0.028	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.057	0.89	0.057	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.025	0.44	0.025	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.025	0.44	0.025	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.051	0.89	0.051	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.037	0.44	0.037	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.047	0.89	0.047	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.027	0.44	0.027	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.048	0.89	0.048	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.52	2.1	0.52	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.044	0.44	0.044	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.099	0.89	0.099	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.023	0.44	0.023	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.053	0.89	0.053	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.15	0.89	0.15	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.031	0.44	0.031	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.036	0.89	0.036	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.031	0.44	0.031	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.13	0.89	0.13	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.037	0.44	0.037	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.031	0.44	0.031	mg/kg dry	1	"	"	"	"	
Aniline	<0.12	0.89	0.12	mg/kg dry	1	"	"	"	"	
Anthracene	<0.033	0.44	0.033	mg/kg dry	1	"	"	"	"	
Benzidine	<0.96	3.3	0.96	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.036	0.44	0.036	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.036	0.44	0.036	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.045	0.44	0.045	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.040	0.44	0.040	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP8 (1-1.5) (0903879-07) Soil Sampled: 08/31/09 14:30 Received: 09/01/09 10:45										
Benzo (k) fluoranthene	<0.041	0.44	0.041	mg/kg dry	1	B9I0810	09/08/09	09/09/09	EPA 8270C	
Benzoic acid	<0.077	0.44	0.077	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.16	0.89	0.16	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.028	0.44	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.032	0.44	0.032	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.029	0.44	0.029	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.027	0.44	0.027	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.028	0.44	0.028	mg/kg dry	1	"	"	"	"	
Carbazole	<0.029	0.44	0.029	mg/kg dry	1	"	"	"	"	
Chrysene	<0.044	0.44	0.044	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.045	0.44	0.045	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.025	0.44	0.025	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.020	0.44	0.020	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.024	0.44	0.024	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.049	0.44	0.049	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.033	0.44	0.033	mg/kg dry	1	"	"	"	"	
Fluoranthene	**0.11**	0.44	0.032	mg/kg dry	1	"	"	"	"	J
Fluorene	<0.024	0.44	0.024	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.021	0.44	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.044	0.44	0.044	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.055	0.44	0.055	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.037	0.44	0.037	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.043	0.44	0.043	mg/kg dry	1	"	"	"	"	
Isophorone	<0.023	0.44	0.023	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.039	0.44	0.039	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.040	0.44	0.040	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.043	0.44	0.043	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.033	0.44	0.033	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.024	0.44	0.024	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	**0.15**	0.89	0.13	mg/kg dry	1	"	"	"	"	J
Phenanthrene	**0.038**	0.44	0.025	mg/kg dry	1	"	"	"	"	J
Phenol	<0.076	0.89	0.076	mg/kg dry	1	"	"	"	"	
Pyrene	**0.42**	0.44	0.031	mg/kg dry	1	"	"	"	"	J
Surrogate: 2,4,6-Tribromophenol	*68.4*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*77.9*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*69.1*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*67.8*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*75.1*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*89.4*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP8 (5-7) (0903879-08) Soil Sampled: 08/31/09 15:15 Received: 09/01/09 10:45										
1,2,4-Trichlorobenzene	<0.028	0.34	0.028	mg/kg dry	1	B9I0810	09/08/09	09/09/09	EPA 8270C	
1,2-Dichlorobenzene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.039	0.69	0.039	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.025	0.69	0.025	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.036	0.69	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.036	0.69	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.093	0.69	0.093	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.060	0.69	0.060	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.044	0.69	0.044	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.039	0.69	0.039	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.036	0.69	0.036	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.037	0.69	0.037	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.40	1.6	0.40	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.076	0.69	0.076	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.041	0.69	0.041	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.11	0.69	0.11	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.028	0.69	0.028	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.10	0.69	0.10	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Aniline	<0.093	0.69	0.093	mg/kg dry	1	"	"	"	"	
Anthracene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Benzidine	<0.74	2.6	0.74	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP8 (5-7) (0903879-08) Soil Sampled: 08/31/09 15:15 Received: 09/01/09 10:45										
Benzo (k) fluoranthene	<0.032	0.34	0.032	mg/kg dry	1	B9I0810	09/08/09	09/09/09	EPA 8270C	
Benzoic acid	<0.060	0.34	0.060	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.12	0.69	0.12	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Carbazole	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Chrysene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.015	0.34	0.015	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.038	0.34	0.038	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
Fluorene	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.016	0.34	0.016	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.042	0.34	0.042	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
Isophorone	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.030	0.34	0.030	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.099	0.69	0.099	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
Phenol	<0.059	0.69	0.059	mg/kg dry	1	"	"	"	"	
Pyrene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*79.6*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*66.8*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*68.2*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*68.3*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*74.0*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*67.3*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP4 (4-6) (0903879-09) Soil Sampled: 08/31/09 16:30 Received: 09/01/09 10:45										
1,2,4-Trichlorobenzene	<0.034	0.41	0.034	mg/kg dry	1	B9I0810	09/08/09	09/10/09	EPA 8270C	
1,2-Dichlorobenzene	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.025	0.41	0.025	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.029	0.41	0.029	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.030	0.41	0.030	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.048	0.84	0.048	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.030	0.84	0.030	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.044	0.84	0.044	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.044	0.84	0.044	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.84	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.072	0.84	0.072	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.026	0.41	0.026	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.054	0.84	0.054	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.024	0.41	0.024	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.024	0.41	0.024	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.048	0.84	0.048	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.035	0.41	0.035	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.044	0.84	0.044	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.025	0.41	0.025	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.045	0.84	0.045	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.49	2.0	0.49	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.041	0.41	0.041	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.092	0.84	0.092	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.021	0.41	0.021	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.050	0.84	0.050	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.14	0.84	0.14	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.029	0.41	0.029	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.034	0.84	0.034	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.029	0.41	0.029	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.84	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.035	0.41	0.035	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.029	0.41	0.029	mg/kg dry	1	"	"	"	"	
Aniline	<0.11	0.84	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
Benzidine	<0.90	3.1	0.90	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.034	0.41	0.034	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.034	0.41	0.034	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.042	0.41	0.042	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.038	0.41	0.038	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP4 (4-6) (0903879-09) Soil Sampled: 08/31/09 16:30 Received: 09/01/09 10:45										
Benzo (k) fluoranthene	<0.039	0.41	0.039	mg/kg dry	1	B9I0810	09/08/09	09/10/09	EPA 8270C	
Benzoic acid	<0.072	0.41	0.072	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.15	0.84	0.15	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.026	0.41	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.030	0.41	0.030	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.025	0.41	0.025	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.026	0.41	0.026	mg/kg dry	1	"	"	"	"	
Carbazole	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
Chrysene	<0.041	0.41	0.041	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.042	0.41	0.042	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.024	0.41	0.024	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.019	0.41	0.019	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.022	0.41	0.022	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.046	0.41	0.046	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.030	0.41	0.030	mg/kg dry	1	"	"	"	"	
Fluorene	<0.022	0.41	0.022	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.020	0.41	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.041	0.41	0.041	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.051	0.41	0.051	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.035	0.41	0.035	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.040	0.41	0.040	mg/kg dry	1	"	"	"	"	
Isophorone	<0.021	0.41	0.021	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.036	0.41	0.036	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.038	0.41	0.038	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.040	0.41	0.040	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.022	0.41	0.022	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.12	0.84	0.12	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.024	0.41	0.024	mg/kg dry	1	"	"	"	"	
Phenol	<0.071	0.84	0.071	mg/kg dry	1	"	"	"	"	
Pyrene	<0.029	0.41	0.029	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*65.5*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*54.9*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*55.3*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*58.0*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*60.7*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*60.4*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP6 (1-2) (0903879-01) Soil Sampled: 08/31/09 09:25 Received: 09/01/09 10:45										
1,1,1,2-Tetrachloroethane	<0.031	0.30	0.031	mg/kg dry	1	B9I0308	09/03/09	09/03/09	EPA 8260B	
1,1,1-Trichloroethane	<0.040	0.30	0.040	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.030	0.30	0.030	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.045	0.30	0.045	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.078	0.30	0.078	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.029	0.30	0.029	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.030	0.30	0.030	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.033	0.30	0.033	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.080	0.60	0.080	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.064	0.30	0.064	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.077	0.60	0.077	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.024	0.30	0.024	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.069	0.60	0.069	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.046	0.30	0.046	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.033	0.30	0.033	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.030	0.30	0.030	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.034	0.30	0.034	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.018	0.30	0.018	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.034	0.30	0.034	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.020	0.30	0.020	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.022	0.30	0.022	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.082	0.60	0.082	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.14	2.4	0.14	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.022	0.30	0.022	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.035	0.30	0.035	mg/kg dry	1	"	"	"	"	
Acetone	<0.39	2.4	0.39	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.081	0.60	0.081	mg/kg dry	1	"	"	"	"	
Benzene	<0.018	0.30	0.018	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.023	0.30	0.023	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.030	0.30	0.030	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.042	0.30	0.042	mg/kg dry	1	"	"	"	"	
Bromoform	<0.096	0.60	0.096	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.17	0.60	0.17	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.033	0.30	0.033	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.030	0.30	0.030	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.088	0.30	0.088	mg/kg dry	1	"	"	"	"	
Chloroform	<0.051	0.30	0.051	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.049	0.30	0.049	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.055	0.30	0.055	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP6 (1-2) (0903879-01) Soil Sampled: 08/31/09 09:25 Received: 09/01/09 10:45										
cis-1,3-Dichloropropene	<0.028	0.30	0.028	mg/kg dry	1	B9I0308	09/03/09	09/03/09	EPA 8260B	
Dibromochloromethane	<0.039	0.30	0.039	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.055	0.30	0.055	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.099	0.60	0.099	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.053	0.30	0.053	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.058	0.60	0.058	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.027	0.30	0.027	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.16	1.2	0.16	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.028	0.30	0.028	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.11	0.60	0.11	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.11	0.60	0.11	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.020	0.30	0.020	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.20	1.2	0.20	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.078	0.60	0.078	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.039	0.30	0.039	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.017	0.30	0.017	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.037	0.30	0.037	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.036	0.30	0.036	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.012	0.30	0.012	mg/kg dry	1	"	"	"	"	
Styrene	<0.048	0.30	0.048	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.022	0.30	0.022	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.042	0.30	0.042	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.12	2.4	0.12	mg/kg dry	1	"	"	"	"	
Toluene	<0.034	0.30	0.034	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.027	0.30	0.027	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.042	0.30	0.042	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.048	0.30	0.048	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.039	0.30	0.039	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.028	0.30	0.028	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*96.0*			*80-120 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*98.3*			*80-120 %*		"	"	"	"	
Surrogate: Toluene-d8	*95.4*			*80-120 %*		"	"	"	"	
SOC5-GP6 (18-20) (0903879-02) Soil Sampled: 08/31/09 10:45 Received: 09/01/09 10:45										
1,1,1,2-Tetrachloroethane	<0.027	0.26	0.027	mg/kg dry	1	B9I0308	09/03/09	09/03/09	EPA 8260B	
1,1,1-Trichloroethane	<0.034	0.26	0.034	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.026	0.26	0.026	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.038	0.26	0.038	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.067	0.26	0.067	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP6 (18-20) (0903879-02) Soil Sampled: 08/31/09 10:45 Received: 09/01/09 10:45										
1,1-Dichloroethane	<0.025	0.26	0.025	mg/kg dry	1	B9I0308	09/03/09	09/03/09	EPA 8260B	
1,1-Dichloroethene	<0.026	0.26	0.026	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.028	0.26	0.028	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.068	0.52	0.068	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.055	0.26	0.055	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.066	0.52	0.066	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.021	0.26	0.021	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.059	0.52	0.059	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.039	0.26	0.039	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.028	0.26	0.028	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.026	0.26	0.026	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.029	0.26	0.029	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.015	0.26	0.015	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.029	0.26	0.029	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.018	0.26	0.018	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.019	0.26	0.019	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.070	0.52	0.070	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.12	2.1	0.12	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.019	0.26	0.019	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.030	0.26	0.030	mg/kg dry	1	"	"	"	"	
Acetone	<0.33	2.1	0.33	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.069	0.52	0.069	mg/kg dry	1	"	"	"	"	
Benzene	<0.015	0.26	0.015	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.020	0.26	0.020	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.026	0.26	0.026	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.036	0.26	0.036	mg/kg dry	1	"	"	"	"	
Bromoform	<0.082	0.52	0.082	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.14	0.52	0.14	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.028	0.26	0.028	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.026	0.26	0.026	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.075	0.26	0.075	mg/kg dry	1	"	"	"	"	
Chloroform	<0.043	0.26	0.043	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.042	0.26	0.042	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.047	0.26	0.047	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.024	0.26	0.024	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.033	0.26	0.033	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.047	0.26	0.047	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.085	0.52	0.085	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.045	0.26	0.045	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP6 (18-20) (0903879-02) Soil Sampled: 08/31/09 10:45 Received: 09/01/09 10:45										
Ethyl ether	<0.049	0.52	0.049	mg/kg dry	1	B9I0308	09/03/09	09/03/09	EPA 8260B	
Ethylbenzene	<0.023	0.26	0.023	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.13	1.0	0.13	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.024	0.26	0.024	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.091	0.52	0.091	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.095	0.52	0.095	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.018	0.26	0.018	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.18	1.0	0.18	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.067	0.52	0.067	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.033	0.26	0.033	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.014	0.26	0.014	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.032	0.26	0.032	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.031	0.26	0.031	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.010	0.26	0.010	mg/kg dry	1	"	"	"	"	
Styrene	<0.041	0.26	0.041	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.019	0.26	0.019	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.036	0.26	0.036	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.10	2.1	0.10	mg/kg dry	1	"	"	"	"	
Toluene	<0.029	0.26	0.029	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.023	0.26	0.023	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.036	0.26	0.036	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.041	0.26	0.041	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.033	0.26	0.033	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.024	0.26	0.024	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*100*			*80-120 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*99.0*			*80-120 %*		"	"	"	"	
Surrogate: Toluene-d8	*96.6*			*80-120 %*		"	"	"	"	
SOC5-GP5 (1.5-2.5) (0903879-03) Soil Sampled: 08/31/09 11:30 Received: 09/01/09 10:45										
1,1,1,2-Tetrachloroethane	<0.029	0.28	0.029	mg/kg dry	1	B9I0308	09/03/09	09/03/09	EPA 8260B	
1,1,1-Trichloroethane	<0.037	0.28	0.037	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.028	0.28	0.028	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.042	0.28	0.042	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.073	0.28	0.073	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.027	0.28	0.027	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.028	0.28	0.028	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.030	0.28	0.030	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.074	0.56	0.074	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.060	0.28	0.060	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP5 (1.5-2.5) (0903879-03) Soil	**Sampled: 08/31/09 11:30**			**Received: 09/01/09 10:45**						
1,2,4-Trichlorobenzene	<0.072	0.56	0.072	mg/kg dry	1	B9I0308	09/03/09	09/03/09	EPA 8260B	
1,2,4-Trimethylbenzene	<0.023	0.28	0.023	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.064	0.56	0.064	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.043	0.28	0.043	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.030	0.28	0.030	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.028	0.28	0.028	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.032	0.28	0.032	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.017	0.28	0.017	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.032	0.28	0.032	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.019	0.28	0.019	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.020	0.28	0.020	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.077	0.56	0.077	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.14	2.3	0.14	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.020	0.28	0.020	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.033	0.28	0.033	mg/kg dry	1	"	"	"	"	
Acetone	<0.36	2.3	0.36	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.075	0.56	0.075	mg/kg dry	1	"	"	"	"	
Benzene	<0.017	0.28	0.017	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.021	0.28	0.021	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.028	0.28	0.028	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.039	0.28	0.039	mg/kg dry	1	"	"	"	"	
Bromoform	<0.090	0.56	0.090	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.16	0.56	0.16	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.030	0.28	0.030	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.028	0.28	0.028	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.082	0.28	0.082	mg/kg dry	1	"	"	"	"	
Chloroform	<0.047	0.28	0.047	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.046	0.28	0.046	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.052	0.28	0.052	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.026	0.28	0.026	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.036	0.28	0.036	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.052	0.28	0.052	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.092	0.56	0.092	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.050	0.28	0.050	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.054	0.56	0.054	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.025	0.28	0.025	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.15	1.1	0.15	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.026	0.28	0.026	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.099	0.56	0.099	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP5 (1.5-2.5) (0903879-03) Soil Sampled: 08/31/09 11:30 Received: 09/01/09 10:45										
Methyl isobutyl ketone	<0.10	0.56	0.10	mg/kg dry	1	B9I0308	09/03/09	09/03/09	EPA 8260B	
Methyl tert-butyl ether	<0.019	0.28	0.019	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.19	1.1	0.19	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.073	0.56	0.073	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.036	0.28	0.036	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.016	0.28	0.016	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.035	0.28	0.035	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.034	0.28	0.034	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.011	0.28	0.011	mg/kg dry	1	"	"	"	"	
Styrene	<0.045	0.28	0.045	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.020	0.28	0.020	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.039	0.28	0.039	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.11	2.3	0.11	mg/kg dry	1	"	"	"	"	
Toluene	<0.032	0.28	0.032	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.025	0.28	0.025	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.039	0.28	0.039	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.045	0.28	0.045	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.036	0.28	0.036	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.026	0.28	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*99.2*			*80-120 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*100*			*80-120 %*		"	"	"	"	
Surrogate: Toluene-d8	*96.0*			*80-120 %*		"	"	"	"	
SOC5-GP5 (10-12) (0903879-04) Soil Sampled: 08/31/09 12:05 Received: 09/01/09 10:45										
1,1,1,2-Tetrachloroethane	<0.030	0.28	0.030	mg/kg dry	1	B9I0308	09/03/09	09/03/09	EPA 8260B	
1,1,1-Trichloroethane	<0.037	0.28	0.037	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.028	0.28	0.028	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.042	0.28	0.042	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.074	0.28	0.074	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.027	0.28	0.027	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.028	0.28	0.028	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.031	0.28	0.031	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.075	0.57	0.075	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.060	0.28	0.060	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.073	0.57	0.073	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.023	0.28	0.023	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.065	0.57	0.065	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.043	0.28	0.043	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.031	0.28	0.031	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP5 (10-12) (0903879-04) Soil Sampled: 08/31/09 12:05 Received: 09/01/09 10:45										
1,2-Dichloroethane	<0.028	0.28	0.028	mg/kg dry	1	B9I0308	09/03/09	09/03/09	EPA 8260B	
1,2-Dichloropropane	<0.032	0.28	0.032	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.017	0.28	0.017	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.032	0.28	0.032	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.019	0.28	0.019	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.020	0.28	0.020	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.077	0.57	0.077	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.14	2.3	0.14	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.020	0.28	0.020	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.033	0.28	0.033	mg/kg dry	1	"	"	"	"	
Acetone	<0.36	2.3	0.36	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.076	0.57	0.076	mg/kg dry	1	"	"	"	"	
Benzene	<0.017	0.28	0.017	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.022	0.28	0.022	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.028	0.28	0.028	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.040	0.28	0.040	mg/kg dry	1	"	"	"	"	
Bromoform	<0.091	0.57	0.091	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.16	0.57	0.16	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.031	0.28	0.031	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.028	0.28	0.028	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.083	0.28	0.083	mg/kg dry	1	"	"	"	"	
Chloroform	<0.048	0.28	0.048	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.047	0.28	0.047	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.052	0.28	0.052	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.026	0.28	0.026	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.036	0.28	0.036	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.052	0.28	0.052	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.093	0.57	0.093	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.050	0.28	0.050	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.055	0.57	0.055	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.025	0.28	0.025	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.15	1.1	0.15	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.026	0.28	0.026	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.10	0.57	0.10	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.10	0.57	0.10	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.019	0.28	0.019	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.19	1.1	0.19	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.074	0.57	0.074	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.036	0.28	0.036	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP5 (10-12) (0903879-04) Soil Sampled: 08/31/09 12:05 Received: 09/01/09 10:45										
n-Propylbenzene	<0.016	0.28	0.016	mg/kg dry	1	B9I0308	09/03/09	09/03/09	EPA 8260B	
o-Xylene	<0.035	0.28	0.035	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.034	0.28	0.034	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.011	0.28	0.011	mg/kg dry	1	"	"	"	"	
Styrene	<0.045	0.28	0.045	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.020	0.28	0.020	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.040	0.28	0.040	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.11	2.3	0.11	mg/kg dry	1	"	"	"	"	
Toluene	<0.032	0.28	0.032	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.025	0.28	0.025	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.040	0.28	0.040	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.045	0.28	0.045	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.036	0.28	0.036	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.026	0.28	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*96.2*			*80-120 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*99.1*			*80-120 %*		"	"	"	"	
Surrogate: Toluene-d8	*97.1*			*80-120 %*		"	"	"	"	
SOC5-GP7 (0.5-2) (0903879-05) Soil Sampled: 08/31/09 13:15 Received: 09/01/09 10:45										
1,1,1,2-Tetrachloroethane	<0.030	0.29	0.030	mg/kg dry	1	B9I0308	09/03/09	09/03/09	EPA 8260B	
1,1,1-Trichloroethane	<0.039	0.29	0.039	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.029	0.29	0.029	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.043	0.29	0.043	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.076	0.29	0.076	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.028	0.29	0.028	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.029	0.29	0.029	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.032	0.29	0.032	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.077	0.58	0.077	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.062	0.29	0.062	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.075	0.58	0.075	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.023	0.29	0.023	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.067	0.58	0.067	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.044	0.29	0.044	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.032	0.29	0.032	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.029	0.29	0.029	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.033	0.29	0.033	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.018	0.29	0.018	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.033	0.29	0.033	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.020	0.29	0.020	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP7 (0.5-2) (0903879-05) Soil Sampled: 08/31/09 13:15 Received: 09/01/09 10:45										
1,4-Dichlorobenzene	<0.021	0.29	0.021	mg/kg dry	1	B9I0308	09/03/09	09/03/09	EPA 8260B	
2,2-Dichloropropane	<0.079	0.58	0.079	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.14	2.3	0.14	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.021	0.29	0.021	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.034	0.29	0.034	mg/kg dry	1	"	"	"	"	
Acetone	<0.37	2.3	0.37	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.078	0.58	0.078	mg/kg dry	1	"	"	"	"	
Benzene	<0.018	0.29	0.018	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.022	0.29	0.022	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.029	0.29	0.029	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.041	0.29	0.041	mg/kg dry	1	"	"	"	"	
Bromoform	<0.094	0.58	0.094	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.16	0.58	0.16	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.032	0.29	0.032	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.029	0.29	0.029	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.085	0.29	0.085	mg/kg dry	1	"	"	"	"	
Chloroform	<0.049	0.29	0.049	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.048	0.29	0.048	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.054	0.29	0.054	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.027	0.29	0.027	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.037	0.29	0.037	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.054	0.29	0.054	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.096	0.58	0.096	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.051	0.29	0.051	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.056	0.58	0.056	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.026	0.29	0.026	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.15	1.2	0.15	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.027	0.29	0.027	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.10	0.58	0.10	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.11	0.58	0.11	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.020	0.29	0.020	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.20	1.2	0.20	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.076	0.58	0.076	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.037	0.29	0.037	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.016	0.29	0.016	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.036	0.29	0.036	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.035	0.29	0.035	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.012	0.29	0.012	mg/kg dry	1	"	"	"	"	
Styrene	<0.047	0.29	0.047	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP7 (0.5-2) (0903879-05) Soil Sampled: 08/31/09 13:15 Received: 09/01/09 10:45										
tert-Butylbenzene	<0.021	0.29	0.021	mg/kg dry	1	B9I0308	09/03/09	09/03/09	EPA 8260B	
Tetrachloroethene	<0.041	0.29	0.041	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.12	2.3	0.12	mg/kg dry	1	"	"	"	"	
Toluene	<0.033	0.29	0.033	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.026	0.29	0.026	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.041	0.29	0.041	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.047	0.29	0.047	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.037	0.29	0.037	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.027	0.29	0.027	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*99.9*			*80-120 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*101*			*80-120 %*		"	"	"	"	
Surrogate: Toluene-d8	*97.5*			*80-120 %*		"	"	"	"	
SOC5-GP7 (19-20) (0903879-06) Soil Sampled: 08/31/09 13:50 Received: 09/01/09 10:45										
1,1,1,2-Tetrachloroethane	<0.029	0.28	0.029	mg/kg dry	1	B9I0308	09/03/09	09/03/09	EPA 8260B	
1,1,1-Trichloroethane	<0.037	0.28	0.037	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.028	0.28	0.028	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.041	0.28	0.041	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.072	0.28	0.072	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.027	0.28	0.027	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.028	0.28	0.028	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.030	0.28	0.030	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.074	0.56	0.074	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.059	0.28	0.059	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.071	0.56	0.071	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.022	0.28	0.022	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.064	0.56	0.064	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.042	0.28	0.042	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.030	0.28	0.030	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.028	0.28	0.028	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.031	0.28	0.031	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.017	0.28	0.017	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.031	0.28	0.031	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.019	0.28	0.019	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.020	0.28	0.020	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.076	0.56	0.076	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.13	2.2	0.13	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.020	0.28	0.020	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.032	0.28	0.032	mg/kg dry	1	"	"	"	"	

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Fax: 651-642-1239

Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP7 (19-20) (0903879-06) Soil Sampled: 08/31/09 13:50 Received: 09/01/09 10:45										
Acetone	<0.36	2.2	0.36	mg/kg dry	1	B9I0308	09/03/09	09/03/09	EPA 8260B	
Allyl chloride	<0.075	0.56	0.075	mg/kg dry	1	"	"	"	"	
Benzene	<0.017	0.28	0.017	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.021	0.28	0.021	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.028	0.28	0.028	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.039	0.28	0.039	mg/kg dry	1	"	"	"	"	
Bromoform	<0.089	0.56	0.089	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.16	0.56	0.16	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.030	0.28	0.030	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.028	0.28	0.028	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.081	0.28	0.081	mg/kg dry	1	"	"	"	"	
Chloroform	<0.047	0.28	0.047	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.046	0.28	0.046	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.051	0.28	0.051	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.026	0.28	0.026	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.036	0.28	0.036	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.051	0.28	0.051	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.091	0.56	0.091	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.049	0.28	0.049	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.053	0.56	0.053	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.025	0.28	0.025	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.14	1.1	0.14	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.026	0.28	0.026	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.098	0.56	0.098	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.10	0.56	0.10	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.019	0.28	0.019	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.19	1.1	0.19	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.072	0.56	0.072	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.036	0.28	0.036	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.016	0.28	0.016	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.035	0.28	0.035	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.033	0.28	0.033	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.011	0.28	0.011	mg/kg dry	1	"	"	"	"	
Styrene	<0.045	0.28	0.045	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.020	0.28	0.020	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.039	0.28	0.039	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.11	2.2	0.11	mg/kg dry	1	"	"	"	"	
Toluene	<0.031	0.28	0.031	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.025	0.28	0.025	mg/kg dry	1	"	"	"	"	

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LEGEND Technical Services, Inc.
www.legend-group.com

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP7 (19-20) (0903879-06) Soil Sampled: 08/31/09 13:50 Received: 09/01/09 10:45										
trans-1,3-Dichloropropene	<0.039	0.28	0.039	mg/kg dry	1	B9I0308	09/03/09	09/03/09	EPA 8260B	
Trichloroethene	<0.045	0.28	0.045	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.036	0.28	0.036	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.026	0.28	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*96.2*			*80-120 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*97.5*			*80-120 %*		"	"	"	"	
Surrogate: Toluene-d8	*94.3*			*80-120 %*		"	"	"	"	
SOC5-GP8 (1-1.5) (0903879-07) Soil Sampled: 08/31/09 14:30 Received: 09/01/09 10:45										
1,1,1,2-Tetrachloroethane	<0.029	0.28	0.029	mg/kg dry	1	B9I0308	09/03/09	09/03/09	EPA 8260B	
1,1,1-Trichloroethane	<0.037	0.28	0.037	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.028	0.28	0.028	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.041	0.28	0.041	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.072	0.28	0.072	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.027	0.28	0.027	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.028	0.28	0.028	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.030	0.28	0.030	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.073	0.56	0.073	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.059	0.28	0.059	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.071	0.56	0.071	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.022	0.28	0.022	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.063	0.56	0.063	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.042	0.28	0.042	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.030	0.28	0.030	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.028	0.28	0.028	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.031	0.28	0.031	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	**0.049**	0.28	0.017	mg/kg dry	1	"	"	"	"	J
1,3-Dichlorobenzene	<0.031	0.28	0.031	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.019	0.28	0.019	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.020	0.28	0.020	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.076	0.56	0.076	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.13	2.2	0.13	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.020	0.28	0.020	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.032	0.28	0.032	mg/kg dry	1	"	"	"	"	
Acetone	<0.36	2.2	0.36	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.074	0.56	0.074	mg/kg dry	1	"	"	"	"	
Benzene	<0.017	0.28	0.017	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.021	0.28	0.021	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.028	0.28	0.028	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP8 (1-1.5) (0903879-07) Soil Sampled: 08/31/09 14:30 Received: 09/01/09 10:45										
Bromodichloromethane	<0.039	0.28	0.039	mg/kg dry	1	B9I0308	09/03/09	09/03/09	EPA 8260B	
Bromoform	<0.089	0.56	0.089	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.16	0.56	0.16	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.030	0.28	0.030	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.028	0.28	0.028	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.081	0.28	0.081	mg/kg dry	1	"	"	"	"	
Chloroform	<0.047	0.28	0.047	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.046	0.28	0.046	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.051	0.28	0.051	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.026	0.28	0.026	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.036	0.28	0.036	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.051	0.28	0.051	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.091	0.56	0.091	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.049	0.28	0.049	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.053	0.56	0.053	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.024	0.28	0.024	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.14	1.1	0.14	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.026	0.28	0.026	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.098	0.56	0.098	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.10	0.56	0.10	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.019	0.28	0.019	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.19	1.1	0.19	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.072	0.56	0.072	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	**0.13**	0.28	0.036	mg/kg dry	1	"	"	"	"	J
n-Propylbenzene	<0.016	0.28	0.016	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.034	0.28	0.034	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.033	0.28	0.033	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.011	0.28	0.011	mg/kg dry	1	"	"	"	"	
Styrene	<0.044	0.28	0.044	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.020	0.28	0.020	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.039	0.28	0.039	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.11	2.2	0.11	mg/kg dry	1	"	"	"	"	
Toluene	<0.031	0.28	0.031	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.024	0.28	0.024	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.039	0.28	0.039	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.044	0.28	0.044	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.036	0.28	0.036	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.026	0.28	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*101*			*80-120 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP8 (1-1.5) (0903879-07) Soil Sampled: 08/31/09 14:30 Received: 09/01/09 10:45										
Surrogate: Dibromofluoromethane	*101*			*80-120 %*		*B9I0308*	*09/03/09*	*09/03/09*	*EPA 8260B*	
Surrogate: Toluene-d8	*96.6*			*80-120 %*		*"*	*"*	*"*	*"*	
SOC5-GP8 (5-7) (0903879-08) Soil Sampled: 08/31/09 15:15 Received: 09/01/09 10:45										
1,1,1,2-Tetrachloroethane	<0.029	0.28	0.029	mg/kg dry	1	B9I0308	09/03/09	09/03/09	EPA 8260B	
1,1,1-Trichloroethane	<0.037	0.28	0.037	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.028	0.28	0.028	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.042	0.28	0.042	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.073	0.28	0.073	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.027	0.28	0.027	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.028	0.28	0.028	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.030	0.28	0.030	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.075	0.56	0.075	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.060	0.28	0.060	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.072	0.56	0.072	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.023	0.28	0.023	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.064	0.56	0.064	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.043	0.28	0.043	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.030	0.28	0.030	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.028	0.28	0.028	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.032	0.28	0.032	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.017	0.28	0.017	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.032	0.28	0.032	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.019	0.28	0.019	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.020	0.28	0.020	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.077	0.56	0.077	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.14	2.3	0.14	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.020	0.28	0.020	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.033	0.28	0.033	mg/kg dry	1	"	"	"	"	
Acetone	<0.36	2.3	0.36	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.076	0.56	0.076	mg/kg dry	1	"	"	"	"	
Benzene	<0.017	0.28	0.017	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.021	0.28	0.021	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.028	0.28	0.028	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.040	0.28	0.040	mg/kg dry	1	"	"	"	"	
Bromoform	<0.090	0.56	0.090	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.16	0.56	0.16	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.030	0.28	0.030	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.028	0.28	0.028	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP8 (5-7) (0903879-08) Soil Sampled: 08/31/09 15:15 Received: 09/01/09 10:45										
Chloroethane	<0.082	0.28	0.082	mg/kg dry	1	B9I0308	09/03/09	09/03/09	EPA 8260B	
Chloroform	<0.047	0.28	0.047	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.046	0.28	0.046	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.052	0.28	0.052	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.026	0.28	0.026	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.036	0.28	0.036	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.052	0.28	0.052	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.093	0.56	0.093	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.050	0.28	0.050	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.054	0.56	0.054	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.025	0.28	0.025	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.15	1.1	0.15	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.026	0.28	0.026	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.099	0.56	0.099	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.10	0.56	0.10	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.019	0.28	0.019	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.19	1.1	0.19	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.073	0.56	0.073	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.036	0.28	0.036	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.016	0.28	0.016	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.035	0.28	0.035	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.034	0.28	0.034	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.011	0.28	0.011	mg/kg dry	1	"	"	"	"	
Styrene	<0.045	0.28	0.045	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.020	0.28	0.020	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.040	0.28	0.040	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.11	2.3	0.11	mg/kg dry	1	"	"	"	"	
Toluene	<0.032	0.28	0.032	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.025	0.28	0.025	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.040	0.28	0.040	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.045	0.28	0.045	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.036	0.28	0.036	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.026	0.28	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*98.0*			*80-120 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*98.8*			*80-120 %*		"	"	"	"	
Surrogate: Toluene-d8	*97.2*			*80-120 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0311 - EPA 3050B											
Blank (B9I0311-BLK1)					Prepared: 09/03/09		Analyzed: 09/14/09				
Antimony	< 0.50	0.50	0.0055	mg/kg wet							
Arsenic	< 0.50	0.50	0.10	mg/kg wet							
Beryllium	< 0.25	0.25	0.011	mg/kg wet							
Cadmium	< 0.25	0.25	0.025	mg/kg wet							
Chromium	< 0.50	0.50	0.012	mg/kg wet							
Copper	< 1.0	1.0	0.070	mg/kg wet							
Lead	< 1.0	1.0	0.034	mg/kg wet							
Nickel	< 0.50	0.50	0.014	mg/kg wet							
Selenium	< 1.0	1.0	0.11	mg/kg wet							
Silver	< 0.25	0.25	0.0090	mg/kg wet							
Thallium	< 2.0	2.0	0.13	mg/kg wet							
Zinc	< 1.0	1.0	0.22	mg/kg wet							
LCS (B9I0311-BS1)					Prepared: 09/03/09		Analyzed: 09/14/09				
Antimony	40.4	0.50	0.0055	mg/kg wet	39.9		101	80-120			
Arsenic	39.7	0.50	0.10	mg/kg wet	39.9		99.5	80-120			
Beryllium	4.01	0.25	0.011	mg/kg wet	3.99		101	80-120			
Cadmium	41.1	0.25	0.025	mg/kg wet	39.9		103	80-120			
Chromium	40.3	0.50	0.012	mg/kg wet	39.9		101	80-120			
Copper	40.1	1.0	0.070	mg/kg wet	39.9		101	80-120			
Lead	41.1	1.0	0.034	mg/kg wet	39.9		103	80-120			
Nickel	40.2	0.50	0.014	mg/kg wet	39.9		101	80-120			
Selenium	38.6	1.0	0.11	mg/kg wet	39.9		96.8	80-120			
Silver	4.15	0.25	0.0090	mg/kg wet	3.99		104	80-120			
Thallium	39.8	2.0	0.13	mg/kg wet	39.9		99.7	80-120			
Zinc	42.3	1.0	0.22	mg/kg wet	39.9		106	80-120			
LCS Dup (B9I0311-BSD1)					Prepared: 09/03/09		Analyzed: 09/14/09				
Antimony	39.3	0.50	0.0055	mg/kg wet	39.9		98.5	80-120	2.77	20	
Arsenic	39.5	0.50	0.10	mg/kg wet	39.9		99.0	80-120	0.556	20	
Beryllium	4.00	0.25	0.011	mg/kg wet	3.99		100	80-120	0.336	20	
Cadmium	41.0	0.25	0.025	mg/kg wet	39.9		103	80-120	0.267	20	
Chromium	40.1	0.50	0.012	mg/kg wet	39.9		100	80-120	0.509	20	
Copper	39.6	1.0	0.070	mg/kg wet	39.9		99.4	80-120	1.20	20	
Lead	40.8	1.0	0.034	mg/kg wet	39.9		102	80-120	0.704	20	
Nickel	40.0	0.50	0.014	mg/kg wet	39.9		100	80-120	0.670	20	
Selenium	38.7	1.0	0.11	mg/kg wet	39.9		97.0	80-120	0.203	20	
Silver	4.11	0.25	0.0090	mg/kg wet	3.99		103	80-120	0.868	20	
Thallium	39.8	2.0	0.13	mg/kg wet	39.9		99.9	80-120	0.144	20	
Zinc	40.6	1.0	0.22	mg/kg wet	39.9		102	80-120	4.19	20	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0311 - EPA 3050B											
Matrix Spike (B9I0311-MS1)		**Source: 0903876-01**			Prepared: 09/03/09		Analyzed: 09/14/09				
Antimony	30.4	0.53	0.0058	mg/kg dry	42.0	<0.53	72.1	75-125			M2
Arsenic	41.9	0.53	0.11	mg/kg dry	42.0	2.23	94.4	75-125			
Beryllium	4.28	0.26	0.012	mg/kg dry	4.20	<0.26	96.8	75-125			
Cadmium	39.8	0.26	0.026	mg/kg dry	42.0	<0.26	94.6	75-125			
Chromium	47.3	0.53	0.013	mg/kg dry	42.0	6.35	97.6	75-125			
Copper	62.0	1.1	0.074	mg/kg dry	42.0	15.1	112	75-125			
Lead	47.8	1.1	0.036	mg/kg dry	42.0	5.35	101	75-125			
Nickel	48.0	0.53	0.015	mg/kg dry	42.0	8.43	94.2	75-125			
Selenium	38.8	1.1	0.12	mg/kg dry	42.0	<1.1	91.9	75-125			
Silver	4.18	0.26	0.0095	mg/kg dry	4.20	<0.26	98.4	75-125			
Thallium	38.2	2.1	0.14	mg/kg dry	42.0	<2.1	89.7	75-125			
Zinc	95.4	1.1	0.23	mg/kg dry	42.0	20.5	178	75-125			M1
Matrix Spike Dup (B9I0311-MSD1)		**Source: 0903876-01**			Prepared: 09/03/09		Analyzed: 09/14/09				
Antimony	32.4	0.53	0.0058	mg/kg dry	42.0	<0.53	76.8	75-125	6.28	20	
Arsenic	43.5	0.53	0.11	mg/kg dry	42.0	2.23	98.3	75-125	3.81	20	
Beryllium	4.50	0.26	0.012	mg/kg dry	4.20	<0.26	102	75-125	5.00	20	
Cadmium	41.5	0.26	0.026	mg/kg dry	42.0	<0.26	98.7	75-125	4.22	20	
Chromium	49.2	0.53	0.013	mg/kg dry	42.0	6.35	102	75-125	3.75	20	
Copper	56.4	1.1	0.074	mg/kg dry	42.0	15.1	98.3	75-125	9.44	20	
Lead	46.4	1.1	0.036	mg/kg dry	42.0	5.35	97.8	75-125	3.02	20	
Nickel	50.2	0.53	0.015	mg/kg dry	42.0	8.43	99.4	75-125	4.43	20	
Selenium	39.9	1.1	0.12	mg/kg dry	42.0	<1.1	94.6	75-125	2.88	20	
Silver	4.42	0.26	0.0095	mg/kg dry	4.20	<0.26	104	75-125	5.62	20	
Thallium	40.1	2.1	0.14	mg/kg dry	42.0	<2.1	94.3	75-125	4.90	20	
Zinc	60.6	1.1	0.23	mg/kg dry	42.0	20.5	95.3	75-125	44.7	20	QR-04

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0315 - EPA 7471A											
Blank (B9I0315-BLK1)					Prepared: 09/03/09		Analyzed: 09/04/09				
Mercury	< 0.10	0.10	0.0018	mg/kg wet							
LCS (B9I0315-BS1)					Prepared: 09/03/09		Analyzed: 09/04/09				
Mercury	0.227	0.10	0.0018	mg/kg wet	0.200		114	80-120			
LCS Dup (B9I0315-BSD1)					Prepared: 09/03/09		Analyzed: 09/04/09				
Mercury	0.221	0.10	0.0018	mg/kg wet	0.200		110	80-120	2.68	20	
Matrix Spike (B9I0315-MS1)		**Source: 0903887-01**			Prepared: 09/03/09		Analyzed: 09/04/09				
Mercury	0.274	0.11	0.0020	mg/kg dry	0.225	<0.11	104	75-125			
Matrix Spike Dup (B9I0315-MSD1)		**Source: 0903887-01**			Prepared: 09/03/09		Analyzed: 09/04/09				
Mercury	0.263	0.11	0.0020	mg/kg dry	0.225	<0.11	99.5	75-125	4.18	20	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

PERCENT SOLIDS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0806 - General Preparation											
Duplicate (B9I0806-DUP1)		**Source: 0903879-01**			Prepared & Analyzed: 09/08/09						
% Solids	91.0			%		91.0			0.00	20	
Duplicate (B9I0806-DUP2)		**Source: 0903884-02**			Prepared & Analyzed: 09/08/09						
% Solids	88.0			%		87.0			1.14	20	
Duplicate (B9I0806-DUP3)		**Source: 0903903-03**			Prepared & Analyzed: 09/08/09						
% Solids	86.0			%		87.0			1.16	20	
Duplicate (B9I0806-DUP4)		**Source: 0903921-05**			Prepared & Analyzed: 09/08/09						
% Solids	96.0			%		96.0			0.00	20	

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4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0810 - EPA 3545 ASE Extraction											
Blank (B9I0810-BLK1)					Prepared: 09/08/09 Analyzed: 09/09/09						
1,2,4-Trichlorobenzene	< 0.027	0.33	0.027	mg/kg wet							
1,2-Dichlorobenzene	< 0.025	0.33	0.025	mg/kg wet							
1,2-Diphenylhydrazine as Azobenzene	< 0.020	0.33	0.020	mg/kg wet							
1,3-Dichlorobenzene	< 0.023	0.33	0.023	mg/kg wet							
1,4-Dichlorobenzene	< 0.024	0.33	0.024	mg/kg wet							
2,3,4,6-Tetrachlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2,4,5-Trichlorophenol	< 0.024	0.67	0.024	mg/kg wet							
2,4,6-Trichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dimethylphenol	< 0.090	0.67	0.090	mg/kg wet							
2,4-Dinitrophenol	< 0.058	0.67	0.058	mg/kg wet							
2,4-Dinitrotoluene	< 0.021	0.33	0.021	mg/kg wet							
2,6-Dichlorophenol	< 0.043	0.67	0.043	mg/kg wet							
2,6-Dinitrotoluene	< 0.019	0.33	0.019	mg/kg wet							
2-Chloronaphthalene	< 0.019	0.33	0.019	mg/kg wet							
2-Chlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2-Methylnaphthalene	< 0.028	0.33	0.028	mg/kg wet							
2-Methylphenol	< 0.035	0.67	0.035	mg/kg wet							
2-Nitroaniline	< 0.020	0.33	0.020	mg/kg wet							
2-Nitrophenol	< 0.036	0.67	0.036	mg/kg wet							
3,3´-Dichlorobenzidine	< 0.39	1.6	0.39	mg/kg wet							
3-Nitroaniline	< 0.033	0.33	0.033	mg/kg wet							
4,6-Dinitro-2-methylphenol	< 0.074	0.67	0.074	mg/kg wet							
4-Bromophenyl phenyl ether	< 0.017	0.33	0.017	mg/kg wet							
4-Chloro-3-methylphenol	< 0.040	0.67	0.040	mg/kg wet							
4-Chloroaniline	< 0.11	0.67	0.11	mg/kg wet							
4-Chlorophenyl phenyl ether	< 0.023	0.33	0.023	mg/kg wet							
4-Methylphenol	< 0.027	0.67	0.027	mg/kg wet							
4-Nitroaniline	< 0.023	0.33	0.023	mg/kg wet							
4-Nitrophenol	< 0.099	0.67	0.099	mg/kg wet							
Acenaphthene	< 0.028	0.33	0.028	mg/kg wet							
Acenaphthylene	< 0.023	0.33	0.023	mg/kg wet							
Aniline	< 0.090	0.67	0.090	mg/kg wet							
Anthracene	< 0.025	0.33	0.025	mg/kg wet							
Benzidine	< 0.72	2.5	0.72	mg/kg wet							
Benzo (a) anthracene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (a) pyrene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (b) fluoranthene	< 0.034	0.33	0.034	mg/kg wet							
Benzo (g,h,i) perylene	< 0.030	0.33	0.030	mg/kg wet							

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0810 - EPA 3545 ASE Extraction											
Blank (B9I0810-BLK1)					Prepared: 09/08/09	Analyzed: 09/09/09					
Benzo (k) fluoranthene	< 0.031	0.33	0.031	mg/kg wet							
Benzoic acid	< 0.058	0.33	0.058	mg/kg wet							
Benzyl alcohol	< 0.12	0.67	0.12	mg/kg wet							
Bis(2-chloroethoxy)methane	< 0.021	0.33	0.021	mg/kg wet							
Bis(2-chloroethyl)ether	< 0.024	0.33	0.024	mg/kg wet							
Bis(2-chloroisopropyl)ether	< 0.022	0.33	0.022	mg/kg wet							
Bis(2-ethylhexyl)phthalate	< 0.020	0.33	0.020	mg/kg wet							
Butyl benzyl phthalate	< 0.021	0.33	0.021	mg/kg wet							
Carbazole	< 0.022	0.33	0.022	mg/kg wet							
Chrysene	< 0.033	0.33	0.033	mg/kg wet							
Dibenz (a,h) anthracene	< 0.034	0.33	0.034	mg/kg wet							
Dibenzofuran	< 0.019	0.33	0.019	mg/kg wet							
Diethyl phthalate	< 0.015	0.33	0.015	mg/kg wet							
Dimethyl phthalate	< 0.018	0.33	0.018	mg/kg wet							
Di-n-butyl phthalate	0.109	0.33	0.037	mg/kg wet							B-02, J
Di-n-octyl phthalate	< 0.025	0.33	0.025	mg/kg wet							
Fluoranthene	< 0.024	0.33	0.024	mg/kg wet							
Fluorene	< 0.018	0.33	0.018	mg/kg wet							
Hexachlorobenzene	< 0.016	0.33	0.016	mg/kg wet							
Hexachlorobutadiene	< 0.033	0.33	0.033	mg/kg wet							
Hexachlorocyclopentadiene	< 0.041	0.33	0.041	mg/kg wet							
Hexachloroethane	< 0.028	0.33	0.028	mg/kg wet							
Indeno (1,2,3-cd) pyrene	< 0.032	0.33	0.032	mg/kg wet							
Isophorone	< 0.017	0.33	0.017	mg/kg wet							
Naphthalene	< 0.029	0.33	0.029	mg/kg wet							
Nitrobenzene	< 0.030	0.33	0.030	mg/kg wet							
N-Nitrosodimethylamine	< 0.032	0.33	0.032	mg/kg wet							
N-Nitrosodi-n-propylamine	< 0.025	0.33	0.025	mg/kg wet							
N-Nitrosodiphenylamine	< 0.018	0.33	0.018	mg/kg wet							
Pentachlorophenol	< 0.096	0.67	0.096	mg/kg wet							
Phenanthrene	< 0.019	0.33	0.019	mg/kg wet							
Phenol	< 0.057	0.67	0.057	mg/kg wet							
Pyrene	< 0.023	0.33	0.023	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	*3.55*			*mg/kg wet*	*6.67*		*53.3*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*3.93*			*mg/kg wet*	*6.67*		*59.0*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*3.88*			*mg/kg wet*	*6.67*		*58.2*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*3.86*			*mg/kg wet*	*6.67*		*57.8*	*49.1-86.9*			
Surrogate: Phenol-d6	*3.90*			*mg/kg wet*	*6.67*		*58.5*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.10*			*mg/kg wet*	*6.67*		*76.5*	*43.6-112*			

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4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0810 - EPA 3545 ASE Extraction											
LCS (B9I0810-BS1)					Prepared: 09/08/09		Analyzed: 09/09/09				
1,2,4-Trichlorobenzene	4.65	0.33	0.027	mg/kg wet	6.67		69.8	50.7-82.1			
1,4-Dichlorobenzene	4.27	0.33	0.024	mg/kg wet	6.67		64.0	44-77			
2,4-Dinitrotoluene	4.72	0.33	0.021	mg/kg wet	6.67		70.9	56.7-81.7			
2-Chlorophenol	4.51	0.67	0.038	mg/kg wet	6.67		67.6	52.3-88.2			
4-Chloro-3-methylphenol	4.70	0.67	0.040	mg/kg wet	6.67		70.4	53.4-87			
4-Nitrophenol	4.65	0.67	0.099	mg/kg wet	6.67		69.8	55.7-87.1			
Anthracene	5.94	0.33	0.025	mg/kg wet	6.67		89.2	65.3-92			
Benzo (a) anthracene	5.76	0.33	0.027	mg/kg wet	6.67		86.4	69-95.3			
Benzo (a) pyrene	6.09	0.33	0.027	mg/kg wet	6.67		91.4	68.5-98.2			
Chrysene	5.62	0.33	0.033	mg/kg wet	6.67		84.4	68.6-94.2			
Fluoranthene	5.78	0.33	0.024	mg/kg wet	6.67		86.7	64.3-94.6			
Fluorene	5.26	0.33	0.018	mg/kg wet	6.67		78.9	61.9-89.4			
N-Nitrosodi-n-propylamine	4.87	0.33	0.025	mg/kg wet	6.67		73.1	55.5-91.1			
Pentachlorophenol	3.82	0.67	0.096	mg/kg wet	6.67		57.4	54.7-74.6			
Phenanthrene	5.70	0.33	0.019	mg/kg wet	6.67		85.6	64.3-90.9			
Phenol	4.67	0.67	0.057	mg/kg wet	6.67		70.1	49.7-85.4			
Surrogate: 2,4,6-Tribromophenol	*4.40*			*mg/kg wet*	*6.67*		*66.0*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*5.18*			*mg/kg wet*	*6.67*		*77.8*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*4.88*			*mg/kg wet*	*6.67*		*73.2*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.85*			*mg/kg wet*	*6.67*		*72.8*	*49.1-86.9*			
Surrogate: Phenol-d6	*4.99*			*mg/kg wet*	*6.67*		*74.8*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.37*			*mg/kg wet*	*6.67*		*80.6*	*43.6-112*			
Matrix Spike (B9I0810-MS1)		**Source: 0903926-05**			Prepared: 09/08/09		Analyzed: 09/09/09				
1,2,4-Trichlorobenzene	4.81	0.34	0.028	mg/kg dry	7.00	<0.34	68.8	51-77.5			
1,4-Dichlorobenzene	4.42	0.34	0.025	mg/kg dry	7.00	<0.34	63.1	41.7-73.4			
2,4-Dinitrotoluene	4.79	0.34	0.022	mg/kg dry	7.00	<0.34	68.5	50-84.8			
2-Chlorophenol	4.71	0.70	0.040	mg/kg dry	7.00	<0.70	67.4	47.8-90.8			
4-Chloro-3-methylphenol	4.81	0.70	0.042	mg/kg dry	7.00	<0.70	68.8	48.4-95.1			
4-Nitrophenol	4.59	0.70	0.10	mg/kg dry	7.00	<0.70	65.5	44-105			
Anthracene	6.04	0.34	0.026	mg/kg dry	7.00	<0.34	86.4	60.2-97.3			
Benzo (a) anthracene	5.88	0.34	0.028	mg/kg dry	7.00	<0.34	84.1	59.8-102			
Benzo (a) pyrene	6.11	0.34	0.028	mg/kg dry	7.00	<0.34	87.3	57.2-105			
Chrysene	5.67	0.34	0.034	mg/kg dry	7.00	<0.34	81.0	59.2-102			
Fluoranthene	5.89	0.34	0.025	mg/kg dry	7.00	<0.34	83.6	50.4-108			
Fluorene	5.47	0.34	0.019	mg/kg dry	7.00	<0.34	78.1	57.8-94.4			
N-Nitrosodi-n-propylamine	5.10	0.34	0.026	mg/kg dry	7.00	<0.34	72.9	46.2-96.2			
Pentachlorophenol	3.55	0.70	0.10	mg/kg dry	7.00	<0.70	50.8	53.6-80.4			M2
Phenanthrene	5.83	0.34	0.020	mg/kg dry	7.00	<0.34	83.3	58.4-97.5			
Phenol	4.86	0.70	0.059	mg/kg dry	7.00	<0.70	69.4	44-88.5			

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0810 - EPA 3545 ASE Extraction											
Matrix Spike (B9I0810-MS1)		**Source: 0903926-05**			Prepared: 09/08/09		Analyzed: 09/09/09				
Surrogate: 2,4,6-Tribromophenol	*4.55*			*mg/kg dry*	*7.00*		*65.1*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*5.23*			*mg/kg dry*	*7.00*		*74.7*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*4.96*			*mg/kg dry*	*7.00*		*70.9*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.92*			*mg/kg dry*	*7.00*		*70.3*	*49.1-86.9*			
Surrogate: Phenol-d6	*5.07*			*mg/kg dry*	*7.00*		*72.5*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.38*			*mg/kg dry*	*7.00*		*76.9*	*43.6-112*			
Matrix Spike Dup (B9I0810-MSD1)		**Source: 0903926-05**			Prepared: 09/08/09		Analyzed: 09/09/09				
1,2,4-Trichlorobenzene	4.33	0.34	0.028	mg/kg dry	7.02	<0.34	61.7	51-77.5	10.5	15.7	
1,4-Dichlorobenzene	3.96	0.34	0.025	mg/kg dry	7.02	<0.34	56.4	41.7-73.4	10.9	14.7	
2,4-Dinitrotoluene	4.26	0.34	0.022	mg/kg dry	7.02	<0.34	60.7	50-84.8	11.6	20.5	
2-Chlorophenol	4.23	0.70	0.040	mg/kg dry	7.02	<0.70	60.2	47.8-90.8	10.9	19.8	
4-Chloro-3-methylphenol	4.19	0.70	0.042	mg/kg dry	7.02	<0.70	59.6	48.4-95.1	13.8	18.7	
4-Nitrophenol	4.10	0.70	0.10	mg/kg dry	7.02	<0.70	58.3	44-105	11.2	30.9	
Anthracene	5.28	0.34	0.026	mg/kg dry	7.02	<0.34	75.2	60.2-97.3	13.4	15.1	
Benzo (a) anthracene	5.28	0.34	0.028	mg/kg dry	7.02	<0.34	75.2	59.8-102	10.7	19.6	
Benzo (a) pyrene	5.49	0.34	0.028	mg/kg dry	7.02	<0.34	78.2	57.2-105	10.6	19.4	
Chrysene	5.07	0.34	0.034	mg/kg dry	7.02	<0.34	72.2	59.2-102	11.1	19.6	
Fluoranthene	5.17	0.34	0.025	mg/kg dry	7.02	<0.34	73.1	50.4-108	12.9	21	
Fluorene	4.95	0.34	0.019	mg/kg dry	7.02	<0.34	70.4	57.8-94.4	10.0	15.8	
N-Nitrosodi-n-propylamine	4.61	0.34	0.026	mg/kg dry	7.02	<0.34	65.7	46.2-96.2	9.96	17.1	
Pentachlorophenol	3.07	0.70	0.10	mg/kg dry	7.02	<0.70	43.7	53.6-80.4	14.6	22.4	M2
Phenanthrene	5.16	0.34	0.020	mg/kg dry	7.02	<0.34	73.4	58.4-97.5	12.2	14.3	
Phenol	4.32	0.70	0.059	mg/kg dry	7.02	<0.70	61.6	44-88.5	11.6	21.5	
Surrogate: 2,4,6-Tribromophenol	*4.08*			*mg/kg dry*	*7.02*		*58.1*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*4.69*			*mg/kg dry*	*7.02*		*66.8*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*4.49*			*mg/kg dry*	*7.02*		*64.0*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.47*			*mg/kg dry*	*7.02*		*63.7*	*49.1-86.9*			
Surrogate: Phenol-d6	*4.56*			*mg/kg dry*	*7.02*		*64.9*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*4.77*			*mg/kg dry*	*7.02*		*67.9*	*43.6-112*			

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0308 - EPA 5035 Soil (Purge and Trap)											
Blank (B9I0308-BLK1)					Prepared & Analyzed: 09/03/09						
1,1,1,2-Tetrachloroethane	< 0.026	0.25	0.026	mg/kg wet							
1,1,1-Trichloroethane	< 0.033	0.25	0.033	mg/kg wet							
1,1,2,2-Tetrachloroethane	< 0.025	0.25	0.025	mg/kg wet							
1,1,2-Trichloroethane	< 0.037	0.25	0.037	mg/kg wet							
1,1,2-Trichlorotrifluoroethane	< 0.065	0.25	0.065	mg/kg wet							
1,1-Dichloroethane	< 0.024	0.25	0.024	mg/kg wet							
1,1-Dichloroethene	< 0.025	0.25	0.025	mg/kg wet							
1,1-Dichloropropene	< 0.027	0.25	0.027	mg/kg wet							
1,2,3-Trichlorobenzene	< 0.066	0.50	0.066	mg/kg wet							
1,2,3-Trichloropropane	< 0.053	0.25	0.053	mg/kg wet							
1,2,4-Trichlorobenzene	< 0.064	0.50	0.064	mg/kg wet							
1,2,4-Trimethylbenzene	< 0.020	0.25	0.020	mg/kg wet							
1,2-Dibromo-3-chloropropane	< 0.057	0.50	0.057	mg/kg wet							
1,2-Dibromoethane (EDB)	< 0.038	0.25	0.038	mg/kg wet							
1,2-Dichlorobenzene	< 0.027	0.25	0.027	mg/kg wet							
1,2-Dichloroethane	< 0.025	0.25	0.025	mg/kg wet							
1,2-Dichloropropane	< 0.028	0.25	0.028	mg/kg wet							
1,3,5-Trimethylbenzene	< 0.015	0.25	0.015	mg/kg wet							
1,3-Dichlorobenzene	< 0.028	0.25	0.028	mg/kg wet							
1,3-Dichloropropane	< 0.017	0.25	0.017	mg/kg wet							
1,4-Dichlorobenzene	< 0.018	0.25	0.018	mg/kg wet							
2,2-Dichloropropane	< 0.068	0.50	0.068	mg/kg wet							
2-Butanone	< 0.12	2.0	0.12	mg/kg wet							
2-Chlorotoluene	< 0.018	0.25	0.018	mg/kg wet							
4-Chlorotoluene	< 0.029	0.25	0.029	mg/kg wet							
Acetone	< 0.32	2.0	0.32	mg/kg wet							
Allyl chloride	< 0.067	0.50	0.067	mg/kg wet							
Benzene	< 0.015	0.25	0.015	mg/kg wet							
Bromobenzene	< 0.019	0.25	0.019	mg/kg wet							
Bromochloromethane	< 0.025	0.25	0.025	mg/kg wet							
Bromodichloromethane	< 0.035	0.25	0.035	mg/kg wet							
Bromoform	< 0.080	0.50	0.080	mg/kg wet							
Bromomethane	< 0.14	0.50	0.14	mg/kg wet							
Carbon tetrachloride	< 0.027	0.25	0.027	mg/kg wet							
Chlorobenzene	< 0.025	0.25	0.025	mg/kg wet							
Chloroethane	< 0.073	0.25	0.073	mg/kg wet							
Chloroform	< 0.042	0.25	0.042	mg/kg wet							
Chloromethane	< 0.041	0.25	0.041	mg/kg wet							
cis-1,2-Dichloroethene	< 0.046	0.25	0.046	mg/kg wet							

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0308 - EPA 5035 Soil (Purge and Trap)											
Blank (B9I0308-BLK1)					Prepared & Analyzed: 09/03/09						
cis-1,3-Dichloropropene	< 0.023	0.25	0.023	mg/kg wet							
Dibromochloromethane	< 0.032	0.25	0.032	mg/kg wet							
Dibromomethane	< 0.046	0.25	0.046	mg/kg wet							
Dichlorodifluoromethane	< 0.082	0.50	0.082	mg/kg wet							
Dichlorofluoromethane	< 0.044	0.25	0.044	mg/kg wet							
Ethyl ether	< 0.048	0.50	0.048	mg/kg wet							
Ethylbenzene	< 0.022	0.25	0.022	mg/kg wet							
Hexachlorobutadiene	< 0.13	1.0	0.13	mg/kg wet							
Isopropylbenzene	< 0.023	0.25	0.023	mg/kg wet							
m,p-Xylene	< 0.088	0.50	0.088	mg/kg wet							
Methyl isobutyl ketone	< 0.092	0.50	0.092	mg/kg wet							
Methyl tert-butyl ether	< 0.017	0.25	0.017	mg/kg wet							
Methylene chloride	< 0.17	1.0	0.17	mg/kg wet							
Naphthalene	< 0.065	0.50	0.065	mg/kg wet							
n-Butylbenzene	< 0.032	0.25	0.032	mg/kg wet							
n-Propylbenzene	< 0.014	0.25	0.014	mg/kg wet							
o-Xylene	< 0.031	0.25	0.031	mg/kg wet							
p-Isopropyltoluene	< 0.030	0.25	0.030	mg/kg wet							
sec-Butylbenzene	< 0.010	0.25	0.010	mg/kg wet							
Styrene	< 0.040	0.25	0.040	mg/kg wet							
tert-Butylbenzene	< 0.018	0.25	0.018	mg/kg wet							
Tetrachloroethene	< 0.035	0.25	0.035	mg/kg wet							
Tetrahydrofuran	< 0.10	2.0	0.10	mg/kg wet							
Toluene	< 0.028	0.25	0.028	mg/kg wet							
trans-1,2-Dichloroethene	< 0.022	0.25	0.022	mg/kg wet							
trans-1,3-Dichloropropene	< 0.035	0.25	0.035	mg/kg wet							
Trichloroethene	< 0.040	0.25	0.040	mg/kg wet							
Trichlorofluoromethane	< 0.032	0.25	0.032	mg/kg wet							
Vinyl chloride	< 0.023	0.25	0.023	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*49.2*			*ug/L*	*50.0*		*98.5*	*80-120*			
Surrogate: Dibromofluoromethane	*51.2*			*ug/L*	*50.0*		*102*	*80-120*			
Surrogate: Toluene-d8	*48.4*			*ug/L*	*50.0*		*96.7*	*80-120*			
LCS (B9I0308-BS1)					Prepared & Analyzed: 09/03/09						
1,1,2,2-Tetrachloroethane	50.8			ug/L	50.0		102	80-120			
1,1-Dichloroethane	48.0			ug/L	50.0		95.9	78.8-120			
1,1-Dichloroethene	50.2			ug/L	50.0		100	75-125			
1,3,5-Trimethylbenzene	49.2			ug/L	50.0		98.4	80-120			
1,4-Dichlorobenzene	52.3			ug/L	50.0		105	75-125			
2-Chlorotoluene	49.0			ug/L	50.0		98.0	80-120			

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0308 - EPA 5035 Soil (Purge and Trap)											
LCS (B9I0308-BS1)					Prepared & Analyzed: 09/03/09						
Benzene	47.4			ug/L	50.0		94.8	80-120			
Bromoform	55.0			ug/L	50.0		110	77.1-125			
Chlorobenzene	52.7			ug/L	50.0		105	80-120			
Chloroform	47.7			ug/L	50.0		95.4	77.3-120			
Ethylbenzene	51.9			ug/L	50.0		104	80-120			
n-Butylbenzene	50.4			ug/L	50.0		101	70.1-125			
n-Propylbenzene	48.3			ug/L	50.0		96.7	75-120			
Toluene	47.8			ug/L	50.0		95.7	80-120			
Trichloroethene	47.5			ug/L	50.0		94.9	80-120			
Vinyl chloride	50.6			ug/L	50.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	*52.3*			*ug/L*	*50.0*		*105*	*80-120*			
Surrogate: Dibromofluoromethane	*50.2*			*ug/L*	*50.0*		*100*	*80-120*			
Surrogate: Toluene-d8	*48.8*			*ug/L*	*50.0*		*97.5*	*80-120*			
Matrix Spike (B9I0308-MS1)		**Source: 0903879-01**			Prepared & Analyzed: 09/03/09						
1,1,2,2-Tetrachloroethane	52.1			ug/L	50.0	<	104	80-120			
1,1-Dichloroethane	46.0			ug/L	50.0	<	91.9	77.5-120			
1,1-Dichloroethene	56.0			ug/L	50.0	<	112	76.1-125			
1,3,5-Trimethylbenzene	49.0			ug/L	50.0	<	98.1	80-120			
1,4-Dichlorobenzene	52.6			ug/L	50.0	<	105	75-125			
2-Chlorotoluene	49.2			ug/L	50.0	<	98.4	76.9-120			
Benzene	46.1			ug/L	50.0	<	92.2	80-120			
Bromoform	53.2			ug/L	50.0	<	106	80-125			
Chlorobenzene	52.1			ug/L	50.0	<	104	80-120			
Chloroform	45.7			ug/L	50.0	<	91.3	80-120			
Ethylbenzene	52.0			ug/L	50.0	<	104	80-120			
n-Butylbenzene	50.8			ug/L	50.0	<	102	74.7-125			
n-Propylbenzene	48.6			ug/L	50.0	<	97.3	75-120			
Toluene	47.9			ug/L	50.0	<	95.8	80-120			
Trichloroethene	47.8			ug/L	50.0	<	95.7	80-120			
Vinyl chloride	51.0			ug/L	50.0	<	102	70-125			
Surrogate: 4-Bromofluorobenzene	*49.8*			*ug/L*	*50.0*		*99.6*	*80-120*			
Surrogate: Dibromofluoromethane	*47.4*			*ug/L*	*50.0*		*94.8*	*80-120*			
Surrogate: Toluene-d8	*48.9*			*ug/L*	*50.0*		*97.7*	*80-120*			
Matrix Spike Dup (B9I0308-MSD1)		**Source: 0903879-01**			Prepared & Analyzed: 09/03/09						
1,1,2,2-Tetrachloroethane	52.8			ug/L	50.0	<	106	80-120	1.33	20	
1,1-Dichloroethane	47.7			ug/L	50.0	<	95.4	77.5-120	3.67	20	
1,1-Dichloroethene	47.9			ug/L	50.0	<	95.8	76.1-125	15.7	20	
1,3,5-Trimethylbenzene	49.2			ug/L	50.0	<	98.4	80-120	0.311	20	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0308 - EPA 5035 Soil (Purge and Trap)											
Matrix Spike Dup (B9I0308-MSD1)		**Source: 0903879-01**			Prepared & Analyzed: 09/03/09						
1,4-Dichlorobenzene	53.2			ug/L	50.0	<	106	75-125	1.17	20	
2-Chlorotoluene	50.0			ug/L	50.0	<	100	76.9-120	1.65	20	
Benzene	47.4			ug/L	50.0	<	94.9	80-120	2.92	20	
Bromoform	55.3			ug/L	50.0	<	111	80-125	3.88	20	
Chlorobenzene	52.4			ug/L	50.0	<	105	80-120	0.460	20	
Chloroform	47.6			ug/L	50.0	<	95.3	80-120	4.23	20	
Ethylbenzene	52.6			ug/L	50.0	<	105	80-120	1.03	20	
n-Butylbenzene	50.9			ug/L	50.0	<	102	74.7-125	0.216	20	
n-Propylbenzene	49.6			ug/L	50.0	<	99.2	75-120	1.91	20	
Toluene	48.3			ug/L	50.0	<	96.6	80-120	0.901	20	
Trichloroethene	47.7			ug/L	50.0	<	95.5	80-120	0.239	20	
Vinyl chloride	47.4			ug/L	50.0	<	94.7	70-125	7.36	20	
Surrogate: 4-Bromofluorobenzene	*50.1*			*ug/L*	*50.0*		*100*	*80-120*			
Surrogate: Dibromofluoromethane	*49.3*			*ug/L*	*50.0*		*98.7*	*80-120*			
Surrogate: Toluene-d8	*48.3*			*ug/L*	*50.0*		*96.6*	*80-120*			

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903879
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/16/09

Notes and Definitions

QR-04	The RPD value for the MS/MSD was outside of QC acceptance limits. Data was accepted based on LCS and/or LCSD recovery and/or RPD values.
M2	Matrix spike recovery was low, the associated blank spike recovery was acceptable.
M1	Matrix spike recovery was high, the associated blank spike recovery was acceptable.
J	Parameter was present between the MDL and RL and should be considered an estimated value
B-02	Target analyte was present in the method blank between the MDL and RL.
B	Analyte was present in the method blank. Sample result is less than or equal to 5 times the blank concentration.
<	Less than value listed
dry	Sample results reported on a dry weight basis
NA	Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL	Method Detection Limit
RL	Reporting Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
MS	Matrix Spike = Laboratory Fortified Matrix (LFM)

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0903879

Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

COC 1 of ____

Project Manager: JME

Project Contact: KJN

Sampled by: ESC

Laboratory: Legend

Project Number: 23/19 - 0305.07 ~~S1R1~~ S1 R1 3.00

Project Name: UMA SS1/R1

№ 23237

	Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Volatile Organics (Pres.) *1	Semivolatile Organics *2	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	General (Unpreserved) *3	Cyanide (NaOH)	Nutrients (H_2SO_4) *4	Oil and Grease (H_2SO_4)	Sulfide (Zn Acetate)	Methane	Bacteria ($Na_2S_2O_3$)	DRO (HCl)	PRL Metals	Moisture	VOCs (2-oz tared MeOH) *1	GRO, BTEX (2-oz tared MeOH) *1	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.) *2	% Moisture (plastic vial, unpres.)	Total No. Of Containers	Remarks
01	1. SOC5-GP6(1-2)	8-31-09	0925		X	X			1	1										1	1								4	See attached lists (VOC, SVOC, PP Metals analyte)
02	2. SOC5-GP6(18-20)	8-31-09	1045		X	X			1	1										1	1								4	
03	3. SOC5-GP5(1.5-2.5)	8-31-09	1130		X	X			1	1										1	1								4	
04	4. SOC5-GP5(~~11-11.5~~ 10-12)	8-31-09	1205		X	X			1	1										1	1								4	
05	5. SOC5-GP7(0.5-2)	8-31-09	1315		X	X			1	1										1	1								4	
06	6. SOC5-GP7(19-20)	8-31-09	1350		X	X			1	1										1	1								4	
07	7. SOC5-GP8(1-1.5)	8-31-09	14.30		X	X			1	1										1	1								4	
08	8. SOC5-GP8(5-7)	8-31-09	1515		X	X			1	1										1	1								4	
09	9. SOC5-GP4(4-6)	8-31-09	1630		X	X				1										1	1								3	SVOC & PP Metals
	10.																													
	11.																													
	12.																													

Number of Containers/Preservative — Water / Soil

per A. Nash TBO 9/1/09

Common Parameter/Container - Preservation Key

*1 - Volatile Organics = BTEX, GRO, TPH, Full List
*2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
*3 - General = pH, Chloride, Flouride, Alkalinity, TSS, TDS, TS, Sulfate
*4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice? Y N	Date	Time	Received by:	Date	Time
[signature]	Y	9-1-09	0800			
Relinquished By:	On Ice? Y N	Date	Time	Received by: BPham	Date 9/1/09	Time 10:45

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other ____

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

H:\RLG\STDFORMS\Chain Of Custody Form RLG Rev 070105

RR 2.3°c

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [1]	Minnesota Tier SLV [4]	Minnesota SRV [5]	Minnesota Tier II Industrial SRV [6]
Metals										
Antimony	7440-36-0	Soil/Solid	6010B	0.0055	0.50	mg/kg	--	2.7	12	100
Arsenic	7440-38-2	Soil/Solid	6010B	0.10	0.50	mg/kg	--	15.1	9	20
Beryllium	7440-41-7	Soil/Solid	6010B	0.011	0.25	mg/kg	--	1.4	55	230
Cadmium	7440-43-9	Soil/Solid	6010B	0.025	0.25	mg/kg	--	4.4	25	200
Chromium	7440-47-3	Soil/Solid	6010B	0.012	0.50	mg/kg	--	1000000 (8)	44000 (8)	100000 (8)
Copper	7440-50-8	Soil/Solid	6010B	0.070	1.0	mg/kg	--	400	100	9000
Lead	7439-92-1	Soil/Solid	6010B	0.034	1.0	mg/kg	--	525	300	700
Nickel	7440-02-0	Soil/Solid	6010B	0.014	0.25	mg/kg	--	88	560	2500
Selenium	7782-49-2	Soil/Solid	6010B	0.11	1.0	mg/kg	--	1.5	160	1300
Silver	7440-22-4	Soil/Solid	6010B	0.0090	0.25	mg/kg	--	3.9	160	1300
Thallium	7440-28-0	Soil/Solid	6010B	0.13	2.0	mg/kg	--	--	3	21
Zinc	7440-66-6	Soil/Solid	6010B	0.22	1.0	mg/kg	--	1500	8700	75000
Metals										
Antimony	7440-36-0	Water/Liquid	6020	0.046	0.500	ug/L	6	--	--	--
Arsenic	7440-38-2	Water/Liquid	6010B	2	10.000	ug/L	--	--	--	--
Beryllium	7440-41-7	Water/Liquid	6020	0.027	0.5000	ug/L	0.08	--	--	--
Cadmium	7440-43-9	Water/Liquid	6010B	0.099	1.0000	ug/L	4	--	--	--
Chromium	7440-47-3	Water/Liquid	6010B	0.24	10.000	ug/L	100 (5)	--	--	--
Copper	7440-50-8	Water/Liquid	6010B	1.4	20.000	ug/L	--	--	--	--
Lead	7439-92-1	Water/Liquid	6010B	0.68	3.0000	ug/L	--	--	--	--
Nickel	7440-02-0	Water/Liquid	6010B	0.28	5.0000	ug/L	100	--	--	--
Selenium	7782-49-2	Water/Liquid	6010B	2.2	20.000	ug/L	30	--	--	--
Silver	7440-22-4	Water/Liquid	6010B	0.18	5.0000	ug/L	30	--	--	--
Thallium	7440-28-0	Water/Liquid	6020	0.0081	0.500	ug/L	0.5	--	--	--
Zinc	7440-66-6	Water/Liquid	6010B	4.4	20.000	ug/L	2000	--	--	--
Mercury										
Mercury	7439-97-6	Soil/Solid	7471A	0.0031	0.10	mg/kg	--	1.5 C	0.5	1.5
Mercury	7439-97-6	Water/Liquid	7470A	0.000031	0.00020	mg/L	--	--	--	--
Nitrate+Nitrite Nitrogen as N (Braun)										
N+N Nitrogen as N	NA	Water/Liquid	SM4500-NO3-F	0.007	0.02	mg/L	10 (3)	--	--	--
Total Kjeldahl Nitrogen (Braun)										
TKN as N	NA	Water/Liquid	SM4500-NH3-C	0.17	0.5	mg/L	--	--	--	--
Perchlorate (TA)										
Perchlorate	NA	Water/Liquid	314	0.36	4	ug/L	--	--	--	--
Nitrocellulose (TA)										
Nitrocellulose	NA	Soil/Solid	353.2Mod	0.78	0.5	mg/kg	--	--	--	--
Nitrocellulose (TA)										
Nitrocellulose	NA	Water/Liquid	353.2Mod	0.124	0.5	mg/L	--	--	--	--
Organochlorine Pesticides										
4,4'-DDD	72-54-8	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	56	125
4,4'-DDE	72-55-9	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	40	80
4,4'-DDT	50-29-3	Soil/Solid	8081A	0.0020	0.040	mg/kg	--	--	15	88
a-Chlordane	5103-71-9	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	--	--
Aldrin	309-00-2	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	1	2
alpha-BHC	319-84-6	Soil/Solid	8081A	0.0011	0.040	mg/kg	--	--	2	3.5
beta-BHC	319-85-7	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	7	15
delta-BHC	319-86-8	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	--	--
Dieldrin	60-57-1	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	0.8	2
Endosulfan I	959-98-8	Soil/Solid	8081A	0.0013	0.040	mg/kg	--	--	--	--
Endosulfan II	891-86-1	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
Endosulfan sulfate	1031-07-8	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
Endrin	72-20-8	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	8	56
Endrin aldehyde	7421-93-4	Soil/Solid	8081A	0.0041	0.040	mg/kg	--	--	--	--
Endrin ketone	53494-70-5	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
gamma-BHC (Lindane)	58-89-9	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	9	15
gamma-Chlordane	5566-34-7	Soil/Solid	8081A	0.0017	0.040	mg/kg	--	--	--	--
Heptachlor	76-44-8	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	2	3.5
Heptachlor epoxide	1024-57-3	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	0.4	3
Methoxychlor	72-43-5	Soil/Solid	8081A	0.0019	0.040	mg/kg	--	--	11	50
Toxaphene	8001-35-2	Soil/Solid	8081A	0.015	0.080	mg/kg	--	--	13	28
Organochlorine Pesticides										
4,4'-DDD	72-54-8	Water/Liquid	8081A	0.026	0.40	ug/L	1	--	--	--
4,4'-DDE	72-55-9	Water/Liquid	8081A	0.037	0.40	ug/L	1	--	--	--
4,4'-DDT	50-29-3	Water/Liquid	8081A	0.031	0.40	ug/L	1	--	--	--
a-Chlordane	5103-71-9	Water/Liquid	8081A	0.030	0.40	ug/L	--	--	--	--
Aldrin	309-00-2	Water/Liquid	8081A	0.036	0.40	ug/L	--	--	--	--
alpha-BHC	319-84-6	Water/Liquid	8081A	0.028	0.40	ug/L	--	--	--	--
beta-BHC	319-85-7	Water/Liquid	8081A	0.026	0.40	ug/L	--	--	--	--
delta-BHC	319-86-8	Water/Liquid	8081A	0.023	0.40	ug/L	--	--	--	--
Dieldrin	60-57-1	Water/Liquid	8081A	0.031	0.40	ug/L	0.006 (4)	--	--	--
Endosulfan I	959-98-8	Water/Liquid	8081A	0.032	0.40	ug/L	--	--	--	--
Endosulfan II	891-86-1	Water/Liquid	8081A	0.035	0.40	ug/L	--	--	--	--

P:\Mpls\23 MN\19\2319B05 UMore park environmental\WorkFiles\Phase II Investigation WO#1 and #6\Phase II Work Plan\SSI_RI Work Plan\SAP\V2.0\Part 2-QAPP\Tables\Table 1

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [1]	Minnesota Tier SLV [4]	Minnesota SRV [5]	Minnesota Tier II Industrial SRV [6]
Endosulfan sulfate	1031-07-8	Water/Liquid	8081A	0.034	0.40	ug/L	--	--	--	--
Endrin	72-20-8	Water/Liquid	8081A	0.029	0.40	ug/L	--	--	--	--
Endrin aldehyde	7421-93-4	Water/Liquid	8081A	0.044	0.40	ug/L	--	--	--	--
Endrin ketone	53494-70-5	Water/Liquid	8081A	0.031	0.40	ug/L	--	--	--	--
gamma-BHC (Lindane)	58-89-9	Water/Liquid	8081A	0.024	0.40	ug/L	--	--	--	--
gamma-Chlordane	5566-34-7	Water/Liquid	8081A	0.030	0.40	ug/L	--	--	--	--
Heptachlor	76-44-8	Water/Liquid	8081A	0.028	0.40	ug/L	0.08	--	--	--
Heptachlor epoxide	1024-57-3	Water/Liquid	8081A	0.030	0.40	ug/L	0.04	--	--	--
Methoxychlor	72-43-5	Water/Liquid	8081A	0.032	0.40	ug/L	--	--	--	--
Toxaphene	8001-35-2	Water/Liquid	8081A	0.069	1.00	ug/L	0.3	--	--	--
MDA List 1 Pesticides (Braun)										
EPTC	759-94-4	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Propachlor	1918-16-7	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Ethalfluralin	55283-68-6	Soil/Solid	8270C	0.014	0.04	mg/kg	--	--	--	--
Deisopropylatrazine	1007-28-9	Soil/Solid	8270C	0.0080	0.04	mg/kg	--	--	--	--
Trifluralin	1582-09-8	Soil/Solid	8270C	0.014	0.04	mg/kg	--	--	--	--
Desethylatrazine	6190-65-4	Soil/Solid	8270C	0.011	0.04	mg/kg	--	--	--	--
Phorate	298-02-2	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Prometon	1610-18-0	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Simazine	122-34-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Atrazine	1912-24-9	Soil/Solid	8270C	0.0100	0.04	mg/kg	--	--	--	--
Propazine	139-40-2	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Terbufos	13071-79-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	0.6	3.5
Fonofos	944-22-9	Soil/Solid	8270C	0.0040	0.04	mg/kg	--	--	--	--
Triallate	2303-17-5	Soil/Solid	8270C	0.0050	0.04	mg/kg	--	--	--	--
Metribuzin	21087-64-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Dimethenamid	87674-68-8	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Acetochlor	34256-82-1	Soil/Solid	8270C	0.010	0.04	mg/kg	--	--	--	--
Alachlor	15972-60-8	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Cyanazine	21725-46-2	Soil/Solid	8270C	0.0080	0.04	mg/kg	--	--	--	--
Metolachlor	51218-45-2	Soil/Solid	8270C	0.0030	0.04	mg/kg	--	--	435	3300
Chlorpyrifos	2921-88-2	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Pendimethalin	40487-42-1	Soil/Solid	8270C	0.016	0.04	mg/kg	--	--	--	--
MDA List 1 Pesticides (Braun)										
EPTC	759-94-4	Water/Liquid	8270C	0.22	0.50	ug/L	200	--	--	--
Propachlor	1918-16-7	Water/Liquid	8270C	0.14	0.50	ug/L	--	--	--	--
Ethalfluralin	55283-68-6	Water/Liquid	8270C	0.47	0.50	ug/L	300 (1)	--	--	--
Deisopropylatrazine	1007-28-9	Water/Liquid	8270C	0.26	0.50	ug/L	--	--	--	--
Trifluralin	1582-09-8	Water/Liquid	8270C	0.21	0.50	ug/L	5 (1)	--	--	--
Desethylatrazine	6190-65-4	Water/Liquid	8270C	0.29	0.50	ug/L	--	--	--	--
Phorate	298-02-2	Water/Liquid	8270C	0.58	1.00	ug/L	1 (1)	--	--	--
Prometon	1610-18-0	Water/Liquid	8270C	0.29	0.50	ug/L	100	--	--	--
Simazine	122-34-9	Water/Liquid	8270C	0.32	0.50	ug/L	4 (3)	--	--	--
Atrazine	1912-24-9	Water/Liquid	8270C	0.24	0.50	ug/L	3 (3)	--	--	--
Propazine	139-40-2	Water/Liquid	8270C	0.21	0.50	ug/L	10 (1)	--	--	--
Terbufos	13071-79-9	Water/Liquid	8270C	0.54	1.00	ug/L	0.2 (1)	--	--	--
Fonofos	944-22-9	Water/Liquid	8270C	0.30	0.50	ug/L	10 (1)	--	--	--
Triallate	2303-17-5	Water/Liquid	8270C	0.34	0.50	ug/L	9 (1)	--	--	--
Metribuzin	21087-64-9	Water/Liquid	8270C	0.35	0.50	ug/L	200	--	--	--
Dimethenamid	87674-68-8	Water/Liquid	8270C	0.24	0.50	ug/L	40 (1)	--	--	--
Acetochlor	34256-82-1	Water/Liquid	8270C	0.25	0.50	ug/L	9 (4)	--	--	--
Alachlor	15972-60-8	Water/Liquid	8270C	0.19	0.50	ug/L	5 (4)	--	--	--
Cyanazine	21725-46-2	Water/Liquid	8270C	0.48	0.50	ug/L	1	--	--	--
Metolachlor	51218-45-2	Water/Liquid	8270C	0.28	0.50	ug/L	300 (4)	--	--	--
Chlorpyrifos	2921-88-2	Water/Liquid	8270C	0.34	0.50	ug/L	20 (1)	--	--	--
Pendimethalin	40487-42-1	Water/Liquid	8270C	0.25	0.50	ug/L	--	--	--	--
MDA List 2 Pesticides (Braun)										
Dicamba	1918-00-9	Soil/Solid	8270C	0.008	0.50	mg/kg	--	--	--	--
MCPA	94-74-6	Soil/Solid	8270C	0.014	0.50	mg/kg	--	--	16	110
2,4-D	94-75-7	Soil/Solid	8270C	0.012	0.50	mg/kg	--	--	285	2200
Trichlopyr	55336-06-3	Soil/Solid	8270C	0.008	0.50	mg/kg	--	--	--	--
Pentachlorophenol	87-86-5	Soil/Solid	8270C	0.007	0.50	mg/kg	--	--	80	120
2,4,5-T.P.	93-72-1	Soil/Solid	8270C	0.007	0.50	mg/kg	--	--	--	--
2,4,5-T	93-76-5	Soil/Solid	8270C	0.009	0.50	mg/kg	--	--	290	2150
Dinoseb	88-85-7	Soil/Solid	8270C	0.005	0.50	mg/kg	--	--	--	--
2,4-D.B.	94-82-6	Soil/Solid	8270C	0.011	0.50	mg/kg	--	--	226	1750
Bentazone	25057-89-0	Soil/Solid	8270C	0.009	0.50	mg/kg	--	--	--	--
Picloram	1918-02-1	Soil/Solid	8270C	0.011	0.50	mg/kg	--	--	2000	15000
MDA List 2 Pesticides (Braun)										
Dicamba	1918-00-9	Water/Liquid	8270C	0.38	0.50	ug/L	200	--	--	--

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [1]	Minnesota Tier SLV [2]	Minnesota SRV [3]	Minnesota Tier II Industrial SRV [4]
MCPA	94-74-6	Water/Liquid	8270C	0.29	0.30	ug/L	--	--	--	--
2,4-D	94-75-7	Water/Liquid	8270C	0.26	0.50	ug/L	70	--	--	--
Trichlopyr	55336-06-3	Water/Liquid	8270C	0.41	0.50	ug/L	300 (1)	--	--	--
Pentachlorophenol	87-86-5	Water/Liquid	8270C	0.39	0.50	ug/L	1 (3)	--	--	--
2,4,5-T.P.	93-72-1	Water/Liquid	8270C	0.28	0.50	ug/L	50 (3)	--	--	--
2,4,5-T	93-76-5	Water/Liquid	8270C	0.31	0.50	ug/L	--	--	--	--
Dinoseb	88-85-7	Water/Liquid	8270C	0.34	0.50	ug/L	7 (1)	--	--	--
2,4-D.B.	94-82-6	Water/Liquid	8270C	0.15	0.50	ug/L	60 (1)	--	--	--
Bentazone	25057-89-0	Water/Liquid	8270C	0.22	0.50	ug/L	200 (1)	--	--	--
Picloram	1918-02-1	Water/Liquid	8270C	0.25	0.50	ug/L	500	--	--	--
PCBs										
Aroclor 1016	12674-11-2	Soil/Solid	8082	0.017	0.20	mg/kg	--	--	--	--
Aroclor 1221	11104-28-2	Soil/Solid	8082	0.039	0.20	mg/kg	--	--	--	--
Aroclor 1232	11141-16-5	Soil/Solid	8082	0.010	0.20	mg/kg	--	--	--	--
Aroclor 1242	53469-21-9	Soil/Solid	8082	0.016	0.20	mg/kg	--	--	--	--
Aroclor 1248	12672-29-6	Soil/Solid	8082	0.0078	0.20	mg/kg	--	--	--	--
Aroclor 1254	11097-69-1	Soil/Solid	8082	0.0071	0.20	mg/kg	--	--	--	--
Aroclor 1260	11096-82-5	Soil/Solid	8082	0.015	0.20	mg/kg	--	--	--	--
PCBs										
Aroclor 1016	12674-11-2	Water/Liquid	8082	0.41	2.0	ug/L	--	--	--	--
Aroclor 1221	11104-28-2	Water/Liquid	8082	0.36	2.0	ug/L	--	--	--	--
Aroclor 1232	11141-16-5	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1242	53469-21-9	Water/Liquid	8082	0.58	2.0	ug/L	--	--	--	--
Aroclor 1248	12672-29-6	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1254	11097-69-1	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1260	11096-82-5	Water/Liquid	8082	0.32	2.0	ug/L	--	--	--	--
VOCs - Soil/Solid										
1,1,1,2-Tetrachloroethane	630-20-6	Soil/Solid	8260B	0.019	0.25	mg/kg	--	1.4	31	51
1,1,1-Trichloroethane	71-55-6	Soil/Solid	8260B	0.0098	0.25	mg/kg	--	3.5	140	472
1,1,2,2-Tetrachloroethane	79-34-5	Soil/Solid	8260B	0.012	0.25	mg/kg	--	0.005	3.5	6.5
1,1,2-Trichloroethane	79-00-5	Soil/Solid	8260B	0.022	0.25	mg/kg	--	0.010	9	14
1,1,2-Trichlorotrifluoroethane	76-13-1	Soil/Solid	8260B	0.052	0.25	mg/kg	--	2580	3745	5430
1,1-Dichloroethane	75-34-3	Soil/Solid	8260B	0.013	0.25	mg/kg	--	0.18	34	55
1,1-Dichloroethene	75-35-4	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.025	20	60
1,1-Dichloropropene	563-58-6	Soil/Solid	8260B	0.021	0.25	mg/kg	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	Soil/Solid	8260B	0.063	0.50	mg/kg	--	--	--	--
1,2,3-Trichloropropane	96-18-4	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.35	--	--
1,2,4-Trichlorobenzene	120-82-1	Soil/Solid	8260B	0.052	0.50	mg/kg	--	0.31	200	985
1,2,4-Trimethylbenzene	95-63-6	Soil/Solid	8260B	0.013	0.25	mg/kg	--	--	8	25
1,2-Dibromo-3-chloropropane	96-12-8	Soil/Solid	8260B	0.079	0.50	mg/kg	--	0.001	--	--
1,2-Dibromoethane (EDB)	106-93-4	Soil/Solid	8260B	0.0056	0.25	mg/kg	--	0.00001	0.3	0.5
1,2-Dichlorobenzene	95-50-1	Soil/Solid	8260B	0.0055	0.25	mg/kg	--	8.1	26	75
1,2-Dichloroethane	107-06-2	Soil/Solid	8260B	0.030	0.25	mg/kg	--	0.010	4	6
1,2-Dichloropropane	78-87-5	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.011	4	6
1,3,5-Trimethylbenzene	108-67-8	Soil/Solid	8260B	0.0077	0.25	mg/kg	--	--	3	10
1,3-Dichlorobenzene	541-73-1	Soil/Solid	8260B	0.015	0.25	mg/kg	--	4.2	26	200
1,3-Dichloropropane	142-28-9	Soil/Solid	8260B	0.017	0.25	mg/kg	--	--	--	--
1,4-Dichlorobenzene	106-46-7	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.13	30	50
2,2-Dichloropropane	594-20-7	Soil/Solid	8260B	0.034	0.50	mg/kg	--	--	--	--
2-Butanone	78-93-3	Soil/Solid	8260B	0.069	2.0	mg/kg	--	--	5500	19000
2-Chlorotoluene	95-49-8	Soil/Solid	8260B	0.015	0.25	mg/kg	--	--	436	436
4-Chlorotoluene	106-43-4	Soil/Solid	8260B	0.015	0.25	mg/kg	--	--	--	--
Acetone	67-64-1	Soil/Solid	8260B	0.16	2.0	mg/kg	--	0.7	340	1000
Allyl chloride	107-05-1	Soil/Solid	8260B	0.016	0.50	mg/kg	--	0.032	--	--
Benzene	71-43-2	Soil/Solid	8260B	0.0070	0.25	mg/kg	--	0.034	6	10
Bromobenzene	108-86-1	Soil/Solid	8260B	0.017	0.25	mg/kg	--	--	--	--
Bromochloromethane	74-97-5	Soil/Solid	8260B	0.021	0.25	mg/kg	--	0.15	--	--
Bromodichloromethane	75-27-4	Soil/Solid	8260B	0.020	0.25	mg/kg	--	0.013	10	17
Bromoform	75-25-2	Soil/Solid	8260B	0.015	0.50	mg/kg	--	0.14	370	650
Bromomethane	74-83-9	Soil/Solid	8260B	0.012	0.50	mg/kg	--	0.5	0.7	2
Carbon tetrachloride	56-23-5	Soil/Solid	8260B	0.018	0.25	mg/kg	--	0.023	0.3	0.9
Chlorobenzene	108-90-7	Soil/Solid	8260B	0.011	0.25	mg/kg	--	1.1	11	32
Chloroethane	75-00-3	Soil/Solid	8260B	0.045	0.25	mg/kg	--	--	1000	3000
Chloroform	67-66-3	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.17	2.5	4
Chloromethane	74-87-3	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.006	8	23
cis-1,2-Dichloroethene	156-59-2	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.14	8	22
cis-1,3-Dichloropropene	10061-01-5	Soil/Solid	8260B	0.0098	0.25	mg/kg	--	0.005 M	--	--
Dibromochloromethane	124-48-1	Soil/Solid	8260B	0.014	0.25	mg/kg	--	0.03	12	20
Dibromomethane	74-95-3	Soil/Solid	8260B	0.021	0.25	mg/kg	--	--	260	1860
Dichlorodifluoromethane	75-71-8	Soil/Solid	8260B	0.035	0.50	mg/kg	--	38	16	50
Dichlorofluoromethane	75-43-4	Soil/Solid	8260B	0.014	0.25	mg/kg	--	--	--	--
Ethyl ether	60-29-7	Soil/Solid	8260B	0.017	0.50	mg/kg	--	1.2	--	--
Ethylbenzene	100-41-4	Soil/Solid	8260B	0.011	0.25	mg/kg	--	4.7	200	200
Hexachlorobutadiene	87-68-3	Soil/Solid	8260B	0.11	1.0	mg/kg	--	25	6	37
Isopropylbenzene	98-82-8	Soil/Solid	8260B	0.019	0.25	mg/kg	--	18	30	87

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Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits	Minnesota Tier SLV	Minnesota SRV	Minnesota Tier II Industrial SRV
m,p-Xylene	108-38-3/ 106-42-3	Soil/Solid	8260B	0.024	0.50	mg/kg	--	45 M	45 M	130 M
Methyl isobutyl ketone	108-10-1	Soil/Solid	8260B	0.031	0.50	mg/kg	--	0.42	1700	9000
Methyl tert-butyl ether	1634-04-4	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.027	--	--
Methylene chloride	75-09-2	Soil/Solid	8260B	0.043	1.0	mg/kg	--	0.068	97	158
Naphthalene	91-20-3	Soil/Solid	8260B	0.060	0.50	mg/kg	--	7.5	10	28
n-Butylbenzene	104-51-8	Soil/Solid	8260B	0.012	0.25	mg/kg	--	--	30	92
n-Propylbenzene	103-65-1	Soil/Solid	8260B	0.013	0.25	mg/kg	--	--	30	93
o-Xylene	95-47-6	Soil/Solid	8260B	0.015	0.25	mg/kg	--	45 M	45 M	130 M
p-Isopropyltoluene	99-87-6	Soil/Solid	8260B	0.014	0.25	mg/kg	--	--	--	--
sec-Butylbenzene	135-98-8	Soil/Solid	8260B	0.012	0.25	mg/kg	--	--	25	70
Styrene	100-42-5	Soil/Solid	8260B	0.012	0.25	mg/kg	--	1.9	210	600
tert-Butylbenzene	98-06-6	Soil/Solid	8260B	0.0073	0.25	mg/kg	--	--	30	90
Tetrachloroethene	127-18-4	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.068	72	131
Tetrahydrofuran	109-99-9	Soil/Solid	8260B	0.068	2.0	mg/kg	--	0.16	--	--
Toluene	108-88-3	Soil/Solid	8260B	0.0063	0.25	mg/kg	--	6.4	107	305
trans-1,2-Dichloroethene	156-60-5	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.27	11	33
trans-1,3-Dichloropropene	10061-02-6	Soil/Solid	8260B	0.013	0.25	mg/kg	--	0.005 M	--	--
Trichloroethene	79-01-6	Soil/Solid	8260B	0.013	0.25	mg/kg	--	0.14	29	46
Trichlorofluoromethane	75-69-4	Soil/Solid	8260B	0.035	0.25	mg/kg	--	22	67	195
Vinyl chloride	75-01-4	Soil/Solid	8260B	0.031	0.25	mg/kg	--	0.001	0.8	2.2
VOCs - Water/Liquid										
1,1,1,2-Tetrachloroethane	630-20-6	Water/Liquid	8260B	0.083	1.0	ug/L	70	--	--	--
1,1,1-Trichloroethane	71-55-6	Water/Liquid	8260B	0.098	1.0	ug/L	9000 (4)	--	--	--
1,1,2,2-Tetrachloroethane	79-34-5	Water/Liquid	8260B	0.084	1.0	ug/L	2	--	--	--
1,1,2-Trichloroethane	79-00-5	Water/Liquid	8260B	0.15	1.0	ug/L	3	--	--	--
1,1,2-Trichlorotrifluoroethane	76-13-1	Water/Liquid	8260B	0.10	1.0	ug/L	200000	--	--	--
1,1-Dichloroethane	75-34-3	Water/Liquid	8260B	0.094	1.0	ug/L	100 (7)	--	--	--
1,1-Dichloroethene	75-35-4	Water/Liquid	8260B	0.10	1.0	ug/L	200	--	--	--
1,1-Dichloropropene	563-58-6	Water/Liquid	8260B	0.099	1.0	ug/L	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	Water/Liquid	8260B	0.40	5.0	ug/L	--	--	--	--
1,2,3-Trichloropropane	96-18-4	Water/Liquid	8260B	0.13	2.5	ug/L	40	--	--	--
1,2,4-Trichlorobenzene	120-82-1	Water/Liquid	8260B	0.52	5.0	ug/L	--	--	--	--
1,2,4-Trimethylbenzene	95-63-6	Water/Liquid	8260B	0.052	1.0	ug/L	--	--	--	--
1,2-Dibromo-3-chloropropane	96-12-8	Water/Liquid	8260B	1.2	5.0	ug/L	--	--	--	--
1,2-Dibromoethane (EDB)	106-93-4	Water/Liquid	8260B	0.10	2.5	ug/L	0.004	--	--	--
1,2-Dichlorobenzene	95-50-1	Water/Liquid	8260B	0.12	1.0	ug/L	600	--	--	--
1,2-Dichloroethane	107-06-2	Water/Liquid	8260B	0.084	1.0	ug/L	4	--	--	--
1,2-Dichloropropane	78-87-5	Water/Liquid	8260B	0.13	1.0	ug/L	5	--	--	--
1,3,5-Trimethylbenzene	108-67-8	Water/Liquid	8260B	0.066	1.0	ug/L	100 (4) (6)	--	--	--
1,3-Dichlorobenzene	541-73-1	Water/Liquid	8260B	0.094	1.0	ug/L	--	--	--	--
1,3-Dichloropropane	142-28-9	Water/Liquid	8260B	0.074	1.0	ug/L	--	--	--	--
1,4-Dichlorobenzene	106-46-7	Water/Liquid	8260B	0.053	1.0	ug/L	10	--	--	--
2,2-Dichloropropane	594-20-7	Water/Liquid	8260B	0.23	5.0	ug/L	--	--	--	--
2-Butanone	78-93-3	Water/Liquid	8260B	0.58	20	ug/L	4000	--	--	--
2-Chlorotoluene	95-49-8	Water/Liquid	8260B	0.077	1.0	ug/L	--	--	--	--
4-Chlorotoluene	106-43-4	Water/Liquid	8260B	0.059	1.0	ug/L	--	--	--	--
Acetone	67-64-1	Water/Liquid	8260B	0.69	20	ug/L	700	--	--	--
Allyl chloride	107-05-1	Water/Liquid	8260B	0.28	5.0	ug/L	30	--	--	--
Benzene	71-43-2	Water/Liquid	8260B	0.047	1.0	ug/L	2 (4)	--	--	--
Bromobenzene	108-86-1	Water/Liquid	8260B	0.084	1.0	ug/L	--	--	--	--
Bromochloromethane	74-97-5	Water/Liquid	8260B	0.075	1.0	ug/L	--	--	--	--
Bromodichloromethane	75-27-4	Water/Liquid	8260B	0.13	1.0	ug/L	8	--	--	--
Bromoform	75-25-2	Water/Liquid	8260B	0.074	5.0	ug/L	40	--	--	--
Bromomethane	74-83-9	Water/Liquid	8260B	0.26	5.0	ug/L	10	--	--	--
Carbon tetrachloride	56-23-5	Water/Liquid	8260B	0.074	1.0	ug/L	3	--	--	--
Chlorobenzene	108-90-7	Water/Liquid	8260B	0.025	1.0	ug/L	100	--	--	--
Chloroethane	75-00-3	Water/Liquid	8260B	0.26	2.5	ug/L	--	--	--	--
Chloroform	67-66-3	Water/Liquid	8260B	0.098	1.0	ug/L	30 (4) (6)	--	--	--
Chloromethane	74-87-3	Water/Liquid	8260B	0.098	2.5	ug/L	--	--	--	--
cis-1,2-Dichloroethene	156-59-2	Water/Liquid	8260B	0.12	1.0	ug/L	50 (4)	--	--	--
cis-1,3-Dichloropropene	10061-01-5	Water/Liquid	8260B	0.11	1.0	ug/L	--	--	--	--
Dibromochloromethane	124-48-1	Water/Liquid	8260B	0.084	2.5	ug/L	10	--	--	--
Dibromomethane	74-95-3	Water/Liquid	8260B	0.14	2.5	ug/L	--	--	--	--
Dichlorodifluoromethane	75-71-8	Water/Liquid	8260B	0.39	5.0	ug/L	700 (4)	--	--	--
Dichlorofluoromethane	75-43-4	Water/Liquid	8260B	0.070	1.0	ug/L	--	--	--	--
Ethyl ether	60-29-7	Water/Liquid	8260B	0.10	5.0	ug/L	1000	--	--	--
Ethylbenzene	100-41-4	Water/Liquid	8260B	0.055	1.0	ug/L	700	--	--	--
Hexachlorobutadiene	87-68-3	Water/Liquid	8260B	0.58	10	ug/L	1	--	--	--
Isopropylbenzene	98-82-8	Water/Liquid	8260B	0.068	1.0	ug/L	300	--	--	--
m,p-Xylene	108-38-3 106-42-3	Water/Liquid	8260B	0.14	2.0	ug/L	10000 M	--	--	--
Methyl isobutyl ketone	108-10-1	Water/Liquid	8260B	0.13	5.0	ug/L	300	--	--	--
Methyl tert-butyl ether	1634-04-4	Water/Liquid	8260B	0.079	1.0	ug/L	--	--	--	--

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Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [a]	Minnesota Tier SLV [a]	Minnesota SRV [a]	Minnesota Tier II Industrial SRV [a]
Methylene chloride	75-09-2	Water/Liquid	8260B	0.29	5.0	ug/L	5 (3)	--	--	--
Naphthalene	91-20-3	Water/Liquid	8260B	0.38	5.0	ug/L	300	--	--	--
n-Butylbenzene	104-51-8	Water/Liquid	8260B	0.094	2.5	ug/L	--	--	--	--
n-Propylbenzene	103-65-1	Water/Liquid	8260B	0.079	1.0	ug/L	--	--	--	--
o-Xylene	95-47-6	Water/Liquid	8260B	0.074	1.0	ug/L	10000 M	--	--	--
p-Isopropyltoluene	99-87-6	Water/Liquid	8260B	0.087	2.5	ug/L	--	--	--	--
sec-Butylbenzene	135-98-8	Water/Liquid	8260B	0.030	1.0	ug/L	--	--	--	--
Styrene	100-42-5	Water/Liquid	8260B	0.072	1.0	ug/L	--	--	--	--
tert-Butylbenzene	98-06-6	Water/Liquid	8260B	0.046	1.0	ug/L	--	--	--	--
Tetrachloroethene	127-18-4	Water/Liquid	8260B	0.10	1.0	ug/L	5 (3)	--	--	--
Tetrahydrofuran	109-99-9	Water/Liquid	8260B	0.76	20	ug/L	--	--	--	--
Toluene	108-88-3	Water/Liquid	8260B	0.036	1.0	ug/L	1000	--	--	--
trans-1,2-Dichloroethene	156-60-5	Water/Liquid	8260B	0.14	1.0	ug/L	100	--	--	--
trans-1,3-Dichloropropene	10061-02-6	Water/Liquid	8260B	0.082	1.0	ug/L	--	--	--	--
Trichloroethene	79-01-6	Water/Liquid	8260B	0.097	1.0	ug/L	5 (3)	--	--	--
Trichlorofluoromethane	75-69-4	Water/Liquid	8260B	0.17	1.0	ug/L	2000	--	--	--
Vinyl chloride	75-01-4	Water/Liquid	8260B	0.10	1.0	ug/L	0.2 (4)	--	--	--
SemiVolatile Organics										
1,2,4-Trichlorobenzene	120-82-1	Soil/Solid	8270C	0.020	0.33	mg/kg	--	0.31	200	985
1,2-Dichlorobenzene	95-50-1	Soil/Solid	8270C	0.012	0.33	mg/kg	--	8.1	26	75
1,2-Diphenylhydrazine as Azobenzene	103-33-3	Soil/Solid	8270C	0.039	0.33	mg/kg	--	--	--	--
1,3-Dichlorobenzene	541-73-1	Soil/Solid	8270C	0.014	0.33	mg/kg	--	4.2	26	200
1,4-Dichlorobenzene	106-46-7	Soil/Solid	8270C	0.013	0.33	mg/kg	--	0.13	30	50
2,3,4,6-Tetrachlorophenol	58-90-2	Soil/Solid	8270C	0.072	0.67	mg/kg	--	--	636	3700
2,4,5-Trichlorophenol	95-95-4	Soil/Solid	8270C	0.039	0.67	mg/kg	--	--	1920	10600
2,4,6-Trichlorophenol	88-06-2	Soil/Solid	8270C	0.081	0.67	mg/kg	--	0.21	595	1060
2,4-Dichlorophenol	120-83-2	Soil/Solid	8270C	0.046	0.67	mg/kg	--	0.076	46	230
2,4-Dimethylphenol	105-67-9	Soil/Solid	8270C	0.079	0.67	mg/kg	--	0.34	390	1925
2,4-Dinitrophenol	51-28-5	Soil/Solid	8270C	0.064	0.67	mg/kg	--	0.014	--	--
2,4-Dinitrotoluene	121-14-2	Soil/Solid	8270C	0.044	0.33	mg/kg	--	0.001	50	355
2,6-Dichlorophenol	87-65-0	Soil/Solid	8270C	0.042	0.67	mg/kg	--	--	--	--
2,6-Dinitrotoluene	606-20-2	Soil/Solid	8270C	0.040	0.33	mg/kg	--	0.001	25	175
2-Chloronaphthalene	91-58-7	Soil/Solid	8270C	0.018	0.33	mg/kg	--	--	--	--
2-Chlorophenol	95-57-8	Soil/Solid	8270C	0.029	0.67	mg/kg	--	0.26	--	--
2-Methylnaphthalene	91-57-6	Soil/Solid	8270C	0.021	0.33	mg/kg	--	--	100	369
2-Methylphenol	95-48-7	Soil/Solid	8270C	0.019	0.67	mg/kg	--	0.064	75	352
2-Nitroaniline	88-74-4	Soil/Solid	8270C	0.041	0.33	mg/kg	--	--	--	--
2-Nitrophenol	88-75-5	Soil/Solid	8270C	0.040	0.67	mg/kg	--	0.60	--	--
3,3'-Dichlorobenzidine	91-94-1	Soil/Solid	8270C	0.21	1.6	mg/kg	--	0.36	25	50
3-Nitroaniline	99-09-2	Soil/Solid	8270C	0.041	0.33	mg/kg	--	--	--	--
4,6-Dinitro-2-methylphenol	534-52-1	Soil/Solid	8270C	0.097	0.67	mg/kg	--	--	--	--
4-Bromophenyl phenyl ether	101-55-3	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	--	--
4-Chloro-3-methylphenol	59-50-7	Soil/Solid	8270C	0.075	0.67	mg/kg	--	--	--	--
4-Chloroaniline	106-47-8	Soil/Solid	8270C	0.022	0.67	mg/kg	--	--	--	--
4-Chlorophenyl phenyl ether	7005-72-3	Soil/Solid	8270C	0.024	0.33	mg/kg	--	--	--	--
4-Methylphenol	106-44-5	Soil/Solid	8270C	0.017	0.67	mg/kg	--	0.033	10	59
4-Nitroaniline	100-01-6	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	--	--
4-Nitrophenol	100-02-7	Soil/Solid	8270C	0.081	0.67	mg/kg	--	--	--	--
Acenaphthene	83-32-9	Soil/Solid	8270C	0.020	0.33	mg/kg	--	50	1200	5260
Acenaphthylene	208-96-8	Soil/Solid	8270C	0.031	0.33	mg/kg	--	--	--	--
Aniline	62-53-3	Soil/Solid	8270C	0.034	0.67	mg/kg	--	--	--	--
Anthracene	120-12-7	Soil/Solid	8270C	0.043	0.33	mg/kg	--	942	7880	45400
Benzidine	92-87-5	Soil/Solid	8270C	0.71	2.5	mg/kg	--	--	--	--
Benzo (a) anthracene	56-55-3	Soil/Solid	8270C	0.045	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (a) pyrene	50-32-8	Soil/Solid	8270C	0.049	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (b) fluoranthene	205-99-2	Soil/Solid	8270C	0.048	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (g,h,i) perylene	191-24-2	Soil/Solid	8270C	0.050	0.33	mg/kg	--	--	--	--
Benzo (k) fluoranthene	207-08-9	Soil/Solid	8270C	0.053	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzoic acid	65-85-0	Soil/Solid	8270C	0.036	0.33	mg/kg	--	30	50000	100000
Benzyl alcohol	100-51-6	Soil/Solid	8270C	0.11	0.67	mg/kg	--	--	8700	56000
Bis(2-chloroethoxy)methane	111-91-1	Soil/Solid	8270C	0.021	0.33	mg/kg	--	--	--	--
Bis(2-chloroethyl)ether	111-44-4	Soil/Solid	8270C	0.013	0.33	mg/kg	--	0.001	2.5	5
Bis(2-chloroisopropyl)ether	39638-32-9	Soil/Solid	8270C	0.017	0.33	mg/kg	--	--	--	--
Bis(2-ethylhexyl)phthalate	117-81-7	Soil/Solid	8270C	0.046	0.33	mg/kg	--	40	570	2100
Butyl benzyl phthalate	85-68-7	Soil/Solid	8270C	0.047	0.33	mg/kg	--	28	580	3700
Carbazole	86-74-8	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	700	1310
Chrysene	218-01-9	Soil/Solid	8270C	0.049	0.33	mg/kg	--	10.2 T	2 T	3 T
Dibenz (a,h) anthracene	53-70-3	Soil/Solid	8270C	0.053	0.33	mg/kg	--	10.2 T	2 T	3 T
Dibenzofuran	132-64-9	Soil/Solid	8270C	0.022	0.33	mg/kg	--	--	104	810

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits	Minnesota Tier SLV *	Minnesota SRV *	Minnesota Tier II Industrial SRV *
Diethyl phthalate	84-66-2	Soil/Solid	8270C	0.045	0.33	mg/kg	--	18	--	--
Dimethyl phthalate	131-11-3	Soil/Solid	8270C	0.043	0.33	mg/kg	--	172	--	--
Di-n-butyl phthalate	84-74-2	Soil/Solid	8270C	0.054	0.33	mg/kg	--	23	2440	16300
Di-n-octyl phthalate	117-84-0	Soil/Solid	8270C	0.056	0.33	mg/kg	--	--	520	3700
Fluoranthene	206-44-0	Soil/Solid	8270C	0.047	0.33	mg/kg	--	295	1080	6800
Fluorene	86-73-7	Soil/Solid	8270C	0.011	0.33	mg/kg	--	47	850	4120
Hexachlorobenzene	118-74-1	Soil/Solid	8270C	0.041	0.33	mg/kg	--	0.32	5	9
Hexachlorobutadiene	87-68-3	Soil/Solid	8270C	0.035	0.33	mg/kg	--	25	6	37
Hexachlorocyclopentadiene	77-47-4	Soil/Solid	8270C	0.030	0.33	mg/kg	--	4.4	2	6
Hexachloroethane	67-72-1	Soil/Solid	8270C	0.018	0.33	mg/kg	--	0.050	--	--
Indeno (1,2,3-cd) pyrene	193-39-5	Soil/Solid	8270C	0.042	0.33	mg/kg	--	10.2 T	2 T	3 T
Isophorone	78-59-1	Soil/Solid	8270C	0.018	0.33	mg/kg	--	0.16	--	--
Naphthalene	91-20-3	Soil/Solid	8270C	0.015	0.33	mg/kg	--	7.5	10	28
Nitrobenzene	98-95-3	Soil/Solid	8270C	0.014	0.33	mg/kg	--	--	--	--
N-Nitrosodimethylamine	62-75-9	Soil/Solid	8270C	0.028	0.33	mg/kg	--	0.82	--	--
N-Nitrosodi-n-propylamine	621-64-7	Soil/Solid	8270C	0.014	0.33	mg/kg	--	--	0.7	1.2
N-Nitrosodiphenylamine ***	86-30-6	Soil/Solid	8270C	0.045	0.33	mg/kg	--	0.88	1950	3720
Diphenylamine ***	122-39-4	Soil/Solid	8270C	--	--	--	--	--	--	--
Pentachlorophenol	87-86-5	Soil/Solid	8270C	0.081	0.67	mg/kg	--	0.034	80	120
Phenanthrene	85-01-8	Soil/Solid	8270C	0.026	0.33	mg/kg	--	--	--	--
Phenol	108-95-2	Soil/Solid	8270C	0.027	0.67	mg/kg	--	7.8	1500	20203
Pyrene	129-00-0	Soil/Solid	8270C	0.046	0.33	mg/kg	--	272	890	5800
2,4-Dinitrotoluene (DNT)	121-14-2	Soil/Solid	8270C	0.063	3.0	mg/kg	--	0.001	50	355
2,6-Dinitrotoluene (DNT)	606-20-2	Soil/Solid	8270C	0.13	3.0	mg/kg	--	0.001	25	175
SemiVolatile Organics										
1,2,4-Trichlorobenzene	120-82-1	Water/Liquid	8270C	0.28	10	ug/L	--	--	--	--
1,2-Dichlorobenzene	95-50-1	Water/Liquid	8270C	0.21	10	ug/L	600	--	--	--
1,2-Diphenylhydrazine as Azobenzene	103-33-3	Water/Liquid	8270C	0.20	10	ug/L	--	--	--	--
1,3-Dichlorobenzene	541-73-1	Water/Liquid	8270C	0.21	10	ug/L	--	--	--	--
1,4-Dichlorobenzene	106-46-7	Water/Liquid	8270C	0.18	10	ug/L	10	--	--	--
2,3,4,6-Tetrachlorophenol	58-90-2	Water/Liquid	8270C	1.0	10	ug/L	--	--	--	--
2,4,5-Trichlorophenol	95-95-4	Water/Liquid	8270C	0.85	10	ug/L	--	--	--	--
2,4,6-Trichlorophenol	88-06-2	Water/Liquid	8270C	0.89	10	ug/L	30	--	--	--
2,4-Dichlorophenol	120-83-2	Water/Liquid	8270C	0.78	10	ug/L	20	--	--	--
2,4-Dimethylphenol	105-67-9	Water/Liquid	8270C	0.78	10	ug/L	100	--	--	--
2,4-Dinitrophenol	51-28-5	Water/Liquid	8270C	0.50	10	ug/L	10	--	--	--
2,4-Dinitrotoluene	121-14-2	Water/Liquid	8270C	0.49	10	ug/L	0.5 (2)	--	--	--
2,6-Dichlorophenol	87-65-0	Water/Liquid	8270C	0.78	10	ug/L	--	--	--	--
2,6-Dinitrotoluene	606-20-2	Water/Liquid	8270C	0.39	10	ug/L	0.5 (2)	--	--	--
2-Chloronaphthalene	91-58-7	Water/Liquid	8270C	0.20	10	ug/L	--	--	--	--
2-Chlorophenol	95-57-8	Water/Liquid	8270C	0.66	10	ug/L	30	--	--	--
2-Methylnaphthalene	91-57-6	Water/Liquid	8270C	0.32	10	ug/L	--	--	--	--
2-Methylphenol	95-48-7	Water/Liquid	8270C	0.77	10	ug/L	30	--	--	--
2-Nitroaniline	88-74-4	Water/Liquid	8270C	0.92	10	ug/L	--	--	--	--
2-Nitrophenol	88-75-5	Water/Liquid	8270C	1.0	10	ug/L	--	--	--	--
3,3'-Dichlorobenzidine	91-94-1	Water/Liquid	8270C	7.1	25	ug/L	0.8	--	--	--
3-Nitroaniline	99-09-2	Water/Liquid	8270C	0.95	10	ug/L	--	--	--	--
4,6-Dinitro-2-methylphenol	534-52-1	Water/Liquid	8270C	0.90	10	ug/L	--	--	--	--
4-Bromophenyl phenyl ether	101-55-3	Water/Liquid	8270C	0.19	10	ug/L	--	--	--	--
4-Chloro-3-methylphenol	59-50-7	Water/Liquid	8270C	0.79	10	ug/L	--	--	--	--
4-Chloroaniline	106-47-8	Water/Liquid	8270C	1.0	10	ug/L	--	--	--	--
4-Chlorophenol	106-48-9	Water/Liquid	8270C	NA	NA	ug/L	--	--	--	--
4-Chlorophenyl phenyl ether	7005-72-3	Water/Liquid	8270C	0.15	10	ug/L	--	--	--	--
4-Methylphenol	106-44-5	Water/Liquid	8270C	0.82	10	ug/L	3	--	--	--
4-Nitroaniline	100-01-6	Water/Liquid	8270C	0.63	10	ug/L	--	--	--	--
4-Nitrophenol	100-02-7	Water/Liquid	8270C	1.2	10	ug/L	--	--	--	--
Acenaphthene	83-32-9	Water/Liquid	8270C	0.15	10	ug/L	400	--	--	--
Acenaphthylene	208-96-8	Water/Liquid	8270C	0.17	10	ug/L	--	--	--	--
Aniline	62-53-3	Water/Liquid	8270C	0.97	10	ug/L	--	--	--	--
Anthracene	120-12-7	Water/Liquid	8270C	0.18	10	ug/L	2000	--	--	--
Benzidine	92-87-5	Water/Liquid	8270C	23	100	ug/L	--	--	--	--
Benzo (a) anthracene	56-55-3	Water/Liquid	8270C	0.18	10	ug/L	--	--	--	--
Benzo (a) pyrene	50-32-8	Water/Liquid	8270C	0.22	10	ug/L	--	--	--	--
Benzo (b) fluoranthene	205-99-2	Water/Liquid	8270C	0.18	10	ug/L	--	--	--	--
Benzo (g,h,i) perylene	191-24-2	Water/Liquid	8270C	0.24	10	ug/L	--	--	--	--
Benzo (k) fluoranthene	207-08-9	Water/Liquid	8270C	0.21	10	ug/L	--	--	--	--
Benzoic acid	65-85-0	Water/Liquid	8270C	0.75	10	ug/L	30000	--	--	--
Benzyl alcohol	100-51-6	Water/Liquid	8270C	0.66	10	ug/L	--	--	--	--
Bis(2-chloroethoxy)methane	111-91-1	Water/Liquid	8270C	0.21	10	ug/L	--	--	--	--

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [3]	Minnesota Tier SLV [4]	Minnesota SRV [5]	Minnesota Tier II Industrial SRV [6]
Bis(2-chloroethyl)ether	111-44-4	Water/Liquid	8270C	0.21	10	ug/L	0.3	--	--	--
Bis(2-chloroisopropyl)ether	39638-32-9	Water/Liquid	8270C	0.14	10	ug/L	--	--	--	--
Bis(2-ethylhexyl)phthalate	117-81-7	Water/Liquid	8270C	0.45	10	ug/L	20 (1)	--	--	--
Butyl benzyl phthalate	85-68-7	Water/Liquid	8270C	0.33	10	ug/L	100	--	--	--
Carbazole	86-74-8	Water/Liquid	8270C	0.24	10	ug/L	--	--	--	--
Chrysene	218-01-9	Water/Liquid	8270C	0.15	10	ug/L	--	--	--	--
Dibenz (a,h) anthracene	53-70-3	Water/Liquid	8270C	0.25	10	ug/L	--	--	--	--
Dibenzofuran	132-64-9	Water/Liquid	8270C	0.27	10	ug/L	--	--	--	--
Diethyl phthalate	84-66-2	Water/Liquid	8270C	0.32	10	ug/L	6000	--	--	--
Dimethyl phthalate	131-11-3	Water/Liquid	8270C	0.26	10	ug/L	70000	--	--	--
Di-n-butyl phthalate	84-74-2	Water/Liquid	8270C	0.33	10	ug/L	700	--	--	--
Di-n-octyl phthalate	117-84-0	Water/Liquid	8270C	0.42	10	ug/L	--	--	--	--
Fluoranthene	206-44-0	Water/Liquid	8270C	0.23	10	ug/L	300	--	--	--
Fluorene	86-73-7	Water/Liquid	8270C	0.16	10	ug/L	300	--	--	--
Hexachlorobenzene	118-74-1	Water/Liquid	8270C	0.15	10	ug/L	0.2	--	--	--
Hexachlorobutadiene	87-68-3	Water/Liquid	8270C	0.34	10	ug/L	1	--	--	--
Hexachlorocyclopentadiene	77-47-4	Water/Liquid	8270C	0.22	10	ug/L	--	--	--	--
Hexachloroethane	67-72-1	Water/Liquid	8270C	0.30	10	ug/L	--	--	--	--
Indeno (1,2,3-cd) pyrene	193-39-5	Water/Liquid	8270C	0.19	10	ug/L	--	--	--	--
Isophorone	78-59-1	Water/Liquid	8270C	0.23	10	ug/L	100	--	--	--
Naphthalene	91-20-3	Water/Liquid	8270C	0.19	10	ug/L	300	--	--	--
Nitrobenzene	98-95-3	Water/Liquid	8270C	0.26	10	ug/L	--	--	--	--
N-Nitrosodimethylamine	62-75-9	Water/Liquid	8270C	0.30	10	ug/L	--	--	--	--
N-Nitrosodi-n-propylamine	621-64-7	Water/Liquid	8270C	0.28	10	ug/L	--	--	--	--
N-Nitrosodiphenylamine ***	86-30-6	Water/Liquid	8270C	0.27	10	ug/L	70	--	--	--
Diphenylamine ***	122-39-4	Water/Liquid	8270C	--	--	--	--	--	--	--
Pentachlorophenol	87-86-5	Water/Liquid	8270C	0.99	10	ug/L	1 (3)	--	--	--
Phenanthrene	85-01-8	Water/Liquid	8270C	0.13	10	ug/L	--	--	--	--
Phenol	108-95-2	Water/Liquid	8270C	0.59	10	ug/L	4000	--	--	--
Pyrene	129-00-0	Water/Liquid	8270C	0.24	10	ug/L	200	--	--	--

Notes:
M - the values with this notation indicate the limit is for all combined isomers of this compound
T - the values with this notation represent the limit for the total carcinogenic PAHs as BaP
C - Mercury as mercuric chloride
(TA) - Legend Technical Services, Inc. will subcontract this analysis to Test America, West Sacramento, California.
(Braun) - Legend Technical Services, Inc. will subcontract this analysis to Braun Intertec, Minneapolis, MN.
(1) Not a HRL but a Health Based Value (HBV)
(2) (SRL)-Specific Risk Level (water concentration which corresponds to a riskof 1E-5.
(3) Not a HRL but an EPA Maximum Contaminant Level (MCL).
(4) Value is representative of the lowest exposure duration published in the 2008 Health Risk Limits.
(5) Value represents the criteria for Chromium, hexavalent.
(6) Set at short-term HRL.
(7) Not a HRL, but a Risk Assessment Advice (RAA).
(8) Value represents the criteria for Chromium, Trivalent.
[3] - Minnesota Department of Health, Health Risk Limit (HRL) unless noted otherwise.
[4] - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Soil Leaching Value (SLV)
[5] - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Soil Reference Value (SRV)
[6] - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Tier II Industrial SRV.

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September 18, 2009

Ms. Kelly Neppl
Barr Engineering Co.
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Minneapolis, MN 55435

Work Order Number: 0903902
RE: 23/19-0B05.07

Enclosed are the results of analyses for samples received by the laboratory on 09/02/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of this report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
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Report Reviewer
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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903902
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/18/09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC5-GP4	0903902-01	Water	09/01/09 09:00	09/02/09 11:30

Shipping Container Information

Default Cooler Temperature (°C): 9.3

Received on ice: Yes
Received on melt water: No
Custody seals: No
Temperature blank was present
Ambient: No
Received on ice pack: No
Acceptable (IH/ISO only): No

Case Narrative:

MN Certification does not apply to dichlorofluoromethane, tetrahydrofuran, and 1,1,2-trichlorotrifluoroethane in the 8260B analysis or to carbazole in the 8270C analysis.

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LEGEND Technical Services, Inc.
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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903902
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/18/09

DISSOLVED METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP4 (0903902-01) Water Sampled: 09/01/09 09:00 Received: 09/02/09 11:30										
Antimony	**4.7**	0.50	0.046	ug/L	1	B9I1604	09/16/09	09/17/09	EPA 6020 (Dissolved)	
Arsenic	<10	10	2.0	ug/L	1	B9I1407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
Beryllium	**0.45**	0.50	0.027	ug/L	1	B9I1604	09/16/09	09/17/09	EPA 6020 (Dissolved)	J
Cadmium	<1.0	1.0	0.099	ug/L	1	B9I1407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	
Copper	<20	20	1.4	ug/L	1	"	"	"	"	
Lead	<3.0	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B9I1412	09/14/09	09/15/09	EPA 7470A (Dissolved)	
Nickel	<5.0	5.0	0.28	ug/L	1	B9I1407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
Selenium	<20	20	2.2	ug/L	1	"	"	"	"	
Silver	<5.0	5.0	0.18	ug/L	1	"	"	"	"	
Thallium	**1.9**	0.50	0.0081	ug/L	1	B9I1604	09/16/09	09/17/09	EPA 6020 (Dissolved)	
Zinc	<20	20	4.4	ug/L	1	B9I1407	09/14/09	09/14/09	EPA 6010B (Dissolved)	

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Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/18/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP4 (0903902-01) Water Sampled: 09/01/09 09:00 Received: 09/02/09 11:30										
1,2,4-Trichlorobenzene	<0.18	9.3	0.18	ug/L	1	B9I0803	09/08/09	09/09/09	EPA 8270C	
1,2-Dichlorobenzene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.56	9.3	0.56	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	9.3	0.74	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<1.5	9.3	1.5	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<0.93	9.3	0.93	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<0.31	9.3	0.31	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
2-Chlorophenol	<0.42	9.3	0.42	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<0.61	9.3	0.61	ug/L	1	"	"	"	"	
2-Methylphenol	<0.58	9.3	0.58	ug/L	1	"	"	"	"	
2-Nitroaniline	<0.67	9.3	0.67	ug/L	1	"	"	"	"	
2-Nitrophenol	<0.83	9.3	0.83	ug/L	1	"	"	"	"	
3,3´-Dichlorobenzidine	<6.8	23	6.8	ug/L	1	"	"	"	"	
3-Nitroaniline	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.60	9.3	0.60	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.51	9.3	0.51	ug/L	1	"	"	"	"	
4-Chloroaniline	<2.1	9.3	2.1	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
4-Methylphenol	<0.73	9.3	0.73	ug/L	1	"	"	"	"	
4-Nitroaniline	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
4-Nitrophenol	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Acenaphthene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
Acenaphthylene	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
Aniline	<2.0	9.3	2.0	ug/L	1	"	"	"	"	
Anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzidine	<17	93	17	ug/L	1	"	"	"	"	
Benzo (a) anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzo (a) pyrene	<0.27	9.3	0.27	ug/L	1	"	"	"	"	
Benzo (b) fluoranthene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	

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4700 W 77th St	Project Number:	23/19-0B05.07SIRI300		Work Order #:	0903902
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/18/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP4 (0903902-01) Water Sampled: 09/01/09 09:00 Received: 09/02/09 11:30										
Benzo (k) fluoranthene	<0.29	9.3	0.29	ug/L	1	B9I0803	09/08/09	09/09/09	EPA 8270C	
Benzoic acid	**3.8**	9.3	1.1	ug/L	1	"	"	"	"	J
Benzyl alcohol	<0.50	9.3	0.50	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.17	9.3	0.17	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.18	9.3	0.18	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.40	9.3	0.40	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Carbazole	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Chrysene	<0.25	9.3	0.25	ug/L	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dibenzofuran	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Diethyl phthalate	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dimethyl phthalate	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<0.35	9.3	0.35	ug/L	1	"	"	"	"	
Fluoranthene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Fluorene	<0.37	9.3	0.37	ug/L	1	"	"	"	"	
Hexachlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Hexachloroethane	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Isophorone	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Naphthalene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Nitrobenzene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<0.88	9.3	0.88	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Pentachlorophenol	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
Phenanthrene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Phenol	<0.53	9.3	0.53	ug/L	1	"	"	"	"	
Pyrene	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*84.4*			*48.5-114 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*67.8*			*41.7-98.4 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*57.8*			*30-93.5 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*71.0*			*47.4-97.8 %*		"	"	"	"	
Surrogate: Phenol-d6	*54.0*			*30-91.5 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*55.3*			*30-108 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07			
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300		Work Order #:	0903902
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/18/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP4 (0903902-01) Water Sampled: 09/01/09 09:00 Received: 09/02/09 11:30										
1,1,1,2-Tetrachloroethane	<0.28	1.0	0.28	ug/L	1	B9I0809	09/08/09	09/08/09	EPA 8260B	
1,1,1-Trichloroethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.28	1.0	0.28	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<0.11	1.0	0.11	ug/L	1	"	"	"	"	
1,1-Dichloroethene	<0.12	1.0	0.12	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.47	5.0	0.47	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	2.5	0.24	ug/L	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.32	5.0	0.32	ug/L	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	5.0	0.60	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
2-Butanone	<0.67	20	0.67	ug/L	1	"	"	"	"	
2-Chlorotoluene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
4-Chlorotoluene	<0.14	1.0	0.14	ug/L	1	"	"	"	"	
Acetone	<2.8	20	2.8	ug/L	1	"	"	"	"	
Allyl chloride	<0.76	5.0	0.76	ug/L	1	"	"	"	"	
Benzene	<0.093	1.0	0.093	ug/L	1	"	"	"	"	
Bromobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Bromochloromethane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Bromodichloromethane	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Bromoform	<0.50	5.0	0.50	ug/L	1	"	"	"	"	
Bromomethane	<0.95	5.0	0.95	ug/L	1	"	"	"	"	
Carbon tetrachloride	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Chlorobenzene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
Chloroethane	<0.46	2.5	0.46	ug/L	1	"	"	"	"	
Chloroform	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Chloromethane	**6.9**	2.5	0.37	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903902
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/18/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP4 (0903902-01) Water Sampled: 09/01/09 09:00 Received: 09/02/09 11:30										
cis-1,3-Dichloropropene	<0.16	1.0	0.16	ug/L	1	B9I0809	09/08/09	09/08/09	EPA 8260B	
Dibromochloromethane	<0.50	2.5	0.50	ug/L	1	"	"	"	"	
Dibromomethane	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<0.31	1.0	0.31	ug/L	1	"	"	"	"	
Ethyl ether	<0.53	5.0	0.53	ug/L	1	"	"	"	"	
Ethylbenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.76	10	0.76	ug/L	1	"	"	"	"	
Isopropylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
m,p-Xylene	<0.42	2.0	0.42	ug/L	1	"	"	"	"	
Methyl isobutyl ketone	<1.1	5.0	1.1	ug/L	1	"	"	"	"	
Methyl tert-butyl ether	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
Methylene chloride	<0.65	5.0	0.65	ug/L	1	"	"	"	"	
Naphthalene	<0.40	5.0	0.40	ug/L	1	"	"	"	"	
n-Butylbenzene	<0.32	2.5	0.32	ug/L	1	"	"	"	"	
n-Propylbenzene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
o-Xylene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
sec-Butylbenzene	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Styrene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
tert-Butylbenzene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Tetrachloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Tetrahydrofuran	<0.77	20	0.77	ug/L	1	"	"	"	"	
Toluene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.29	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Vinyl chloride	<0.087	1.0	0.087	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*113*			*76.4-125 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*106*			*80-120 %*		"	"	"	"	
Surrogate: Toluene-d8	*106*			*80-125 %*		"	"	"	"	

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4700 W 77th St	Project Number:	23/19-0B05.07SIRI300		Work Order #:	0903902
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/18/09

DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1407 - EPA 200.7/3005A Digestion											
Blank (B9I1407-BLK1)					Prepared & Analyzed: 09/14/09						
Arsenic	< 10	10	2.0	ug/L							
Cadmium	< 1.0	1.0	0.099	ug/L							
Chromium	< 10	10	0.24	ug/L							
Copper	< 20	20	1.4	ug/L							
Lead	< 3.0	3.0	0.68	ug/L							
Nickel	< 5.0	5.0	0.28	ug/L							
Selenium	< 20	20	2.2	ug/L							
Silver	< 5.0	5.0	0.18	ug/L							
Zinc	< 20	20	4.4	ug/L							
LCS (B9I1407-BS1)					Prepared & Analyzed: 09/14/09						
Arsenic	415	10	2.0	ug/L	399		104	80-120			
Cadmium	429	1.0	0.099	ug/L	399		108	80-120			
Chromium	418	10	0.24	ug/L	399		105	80-120			
Copper	422	20	1.4	ug/L	399		106	80-120			
Lead	429	3.0	0.68	ug/L	399		108	80-120			
Nickel	423	5.0	0.28	ug/L	399		106	80-120			
Selenium	403	20	2.2	ug/L	399		101	80-120			
Silver	41.8	5.0	0.18	ug/L	39.9		105	80-120			
Zinc	422	20	4.4	ug/L	399		106	80-120			
LCS Dup (B9I1407-BSD1)					Prepared & Analyzed: 09/14/09						
Arsenic	415	10	2.0	ug/L	399		104	80-120	0.0292	20	
Cadmium	428	1.0	0.099	ug/L	399		107	80-120	0.280	20	
Chromium	416	10	0.24	ug/L	399		104	80-120	0.618	20	
Copper	418	20	1.4	ug/L	399		105	80-120	0.880	20	
Lead	427	3.0	0.68	ug/L	399		107	80-120	0.499	20	
Nickel	421	5.0	0.28	ug/L	399		105	80-120	0.612	20	
Selenium	406	20	2.2	ug/L	399		102	80-120	0.696	20	
Silver	41.1	5.0	0.18	ug/L	39.9		103	80-120	1.69	20	
Zinc	418	20	4.4	ug/L	399		105	80-120	0.962	20	
Matrix Spike (B9I1407-MS1)		**Source: 0903902-01**			Prepared & Analyzed: 09/14/09						
Arsenic	413	10	2.0	ug/L	399	<10	103	75-125			
Cadmium	413	1.0	0.099	ug/L	399	<1.0	104	75-125			
Chromium	418	10	0.24	ug/L	399	<10	105	75-125			
Copper	425	20	1.4	ug/L	399	<20	107	75-125			
Lead	415	3.0	0.68	ug/L	399	<3.0	104	75-125			
Nickel	414	5.0	0.28	ug/L	399	<5.0	103	75-125			
Selenium	394	20	2.2	ug/L	399	<20	97.9	75-125			
Silver	42.1	5.0	0.18	ug/L	39.9	<5.0	105	75-125			

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903902
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/18/09

DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1407 - EPA 200.7/3005A Digestion											
Matrix Spike (B9I1407-MS1)		**Source: 0903902-01**			Prepared & Analyzed: 09/14/09						
Zinc	394	20	4.4	ug/L	399	<20	98.9	75-125			
Matrix Spike Dup (B9I1407-MSD1)		**Source: 0903902-01**			Prepared & Analyzed: 09/14/09						
Arsenic	413	10	2.0	ug/L	399	<10	103	75-125	0.0354	20	
Cadmium	409	1.0	0.099	ug/L	399	<1.0	102	75-125	1.10	20	
Chromium	403	10	0.24	ug/L	399	<10	101	75-125	3.68	20	
Copper	417	20	1.4	ug/L	399	<20	104	75-125	2.06	20	
Lead	409	3.0	0.68	ug/L	399	<3.0	103	75-125	1.31	20	
Nickel	405	5.0	0.28	ug/L	399	<5.0	101	75-125	2.24	20	
Selenium	413	20	2.2	ug/L	399	<20	103	75-125	4.80	20	
Silver	41.1	5.0	0.18	ug/L	39.9	<5.0	102	75-125	2.30	20	
Zinc	398	20	4.4	ug/L	399	<20	99.7	75-125	0.878	20	
Batch B9I1412 - EPA 245.1/7470A Digestion											
Blank (B9I1412-BLK1)					Prepared: 09/14/09	Analyzed: 09/15/09					
Mercury	< 0.20	0.20	0.018	ug/L							
LCS (B9I1412-BS1)					Prepared: 09/14/09	Analyzed: 09/15/09					
Mercury	2.11	0.20	0.018	ug/L	2.00		106	80-120			
LCS Dup (B9I1412-BSD1)					Prepared: 09/14/09	Analyzed: 09/15/09					
Mercury	2.13	0.20	0.018	ug/L	2.00		106	80-120	0.943	20	
Matrix Spike (B9I1412-MS1)		**Source: 0903902-01**			Prepared: 09/14/09	Analyzed: 09/15/09					
Mercury	1.96	0.20	0.018	ug/L	2.00	<0.20	98.0	75-125			
Matrix Spike Dup (B9I1412-MSD1)		**Source: 0903902-01**			Prepared: 09/14/09	Analyzed: 09/15/09					
Mercury	2.08	0.20	0.018	ug/L	2.00	<0.20	104	75-125	5.94	20	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903902
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/18/09

DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1604 - EPA 200.8 Digestion											
Blank (B9I1604-BLK1)					Prepared: 09/16/09		Analyzed: 09/17/09				
Antimony	< 0.046	0.50	0.046	ug/L							
Beryllium	< 0.027	0.50	0.027	ug/L							
Thallium	< 0.0081	0.50	0.0081	ug/L							
LCS (B9I1604-BS1)					Prepared: 09/16/09		Analyzed: 09/17/09				
Antimony	17.2	0.50	0.046	ug/L	20.0		85.7	80-120			
Beryllium	19.8	0.50	0.027	ug/L	20.0		98.7	80-120			
Thallium	19.1	0.50	0.0081	ug/L	20.0		95.3	80-120			
LCS Dup (B9I1604-BSD1)					Prepared: 09/16/09		Analyzed: 09/17/09				
Antimony	17.8	0.50	0.046	ug/L	20.0		88.9	80-120	3.61	20	
Beryllium	20.3	0.50	0.027	ug/L	20.0		101	80-120	2.50	20	
Thallium	19.0	0.50	0.0081	ug/L	20.0		94.9	80-120	0.490	20	
Matrix Spike (B9I1604-MS1)		**Source: 0903903-02**			Prepared: 09/16/09		Analyzed: 09/17/09				
Antimony	22.2	0.50	0.046	ug/L	20.0	<0.50	110	75-125			
Beryllium	22.6	0.50	0.027	ug/L	20.0	<0.50	113	75-125			
Thallium	21.0	0.50	0.0081	ug/L	20.0	<0.50	105	75-125			
Matrix Spike Dup (B9I1604-MSD1)		**Source: 0903903-02**			Prepared: 09/16/09		Analyzed: 09/17/09				
Antimony	24.5	0.50	0.046	ug/L	20.0	<0.50	121	75-125	9.96	20	
Beryllium	23.4	0.50	0.027	ug/L	20.0	<0.50	117	75-125	3.36	20	
Thallium	23.6	0.50	0.0081	ug/L	20.0	<0.50	118	75-125	11.6	20	

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4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903902
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/18/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0803 - EPA 3510C (Sep Funnel)											
Blank (B9I0803-BLK1)					Prepared & Analyzed: 09/08/09						
1,2,4-Trichlorobenzene	< 0.19	10	0.19	ug/L							
1,2-Dichlorobenzene	< 0.23	10	0.23	ug/L							
1,2-Diphenylhydrazine as Azobenzene	< 0.24	10	0.24	ug/L							
1,3-Dichlorobenzene	< 0.21	10	0.21	ug/L							
1,4-Dichlorobenzene	< 0.22	10	0.22	ug/L							
2,3,4,6-Tetrachlorophenol	< 0.61	10	0.61	ug/L							
2,4,5-Trichlorophenol	< 0.80	10	0.80	ug/L							
2,4,6-Trichlorophenol	< 0.48	10	0.48	ug/L							
2,4-Dichlorophenol	< 0.47	10	0.47	ug/L							
2,4-Dimethylphenol	< 1.6	10	1.6	ug/L							
2,4-Dinitrophenol	< 1.0	10	1.0	ug/L							
2,4-Dinitrotoluene	< 0.33	10	0.33	ug/L							
2,6-Dichlorophenol	< 0.48	10	0.48	ug/L							
2,6-Dinitrotoluene	< 0.36	10	0.36	ug/L							
2-Chloronaphthalene	< 0.28	10	0.28	ug/L							
2-Chlorophenol	< 0.45	10	0.45	ug/L							
2-Methylnaphthalene	< 0.66	10	0.66	ug/L							
2-Methylphenol	< 0.63	10	0.63	ug/L							
2-Nitroaniline	< 0.72	10	0.72	ug/L							
2-Nitrophenol	< 0.90	10	0.90	ug/L							
3,3´-Dichlorobenzidine	< 7.3	25	7.3	ug/L							
3-Nitroaniline	< 1.2	10	1.2	ug/L							
4,6-Dinitro-2-methylphenol	< 0.65	10	0.65	ug/L							
4-Bromophenyl phenyl ether	< 0.17	10	0.17	ug/L							
4-Chloro-3-methylphenol	< 0.55	10	0.55	ug/L							
4-Chloroaniline	< 2.3	10	2.3	ug/L							
4-Chlorophenyl phenyl ether	< 0.25	10	0.25	ug/L							
4-Methylphenol	< 0.79	10	0.79	ug/L							
4-Nitroaniline	< 0.59	10	0.59	ug/L							
4-Nitrophenol	< 1.2	10	1.2	ug/L							
Acenaphthene	< 0.36	10	0.36	ug/L							
Acenaphthylene	< 0.25	10	0.25	ug/L							
Aniline	< 2.2	10	2.2	ug/L							
Anthracene	< 0.37	10	0.37	ug/L							
Benzidine	< 18	100	18	ug/L							
Benzo (a) anthracene	< 0.37	10	0.37	ug/L							
Benzo (a) pyrene	< 0.29	10	0.29	ug/L							
Benzo (b) fluoranthene	< 0.22	10	0.22	ug/L							
Benzo (g,h,i) perylene	< 0.26	10	0.26	ug/L							

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903902
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/18/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0803 - EPA 3510C (Sep Funnel)											
Blank (B9I0803-BLK1)					Prepared & Analyzed: 09/08/09						
Benzo (k) fluoranthene	< 0.31	10	0.31	ug/L							
Benzoic acid	< 1.2	10	1.2	ug/L							
Benzyl alcohol	< 0.54	10	0.54	ug/L							
Bis(2-chloroethoxy)methane	< 0.18	10	0.18	ug/L							
Bis(2-chloroethyl)ether	< 0.17	10	0.17	ug/L							
Bis(2-chloroisopropyl)ether	< 0.19	10	0.19	ug/L							
Bis(2-ethylhexyl)phthalate	< 0.43	10	0.43	ug/L							
Butyl benzyl phthalate	< 0.37	10	0.37	ug/L							
Carbazole	< 0.26	10	0.26	ug/L							
Chrysene	< 0.27	10	0.27	ug/L							
Dibenz (a,h) anthracene	< 0.23	10	0.23	ug/L							
Dibenzofuran	< 0.39	10	0.39	ug/L							
Diethyl phthalate	< 0.23	10	0.23	ug/L							
Dimethyl phthalate	< 0.24	10	0.24	ug/L							
Di-n-butyl phthalate	< 0.28	10	0.28	ug/L							
Di-n-octyl phthalate	< 0.38	10	0.38	ug/L							
Fluoranthene	< 0.39	10	0.39	ug/L							
Fluorene	< 0.40	10	0.40	ug/L							
Hexachlorobenzene	< 0.20	10	0.20	ug/L							
Hexachlorobutadiene	< 0.26	10	0.26	ug/L							
Hexachlorocyclopentadiene	< 0.31	10	0.31	ug/L							
Hexachloroethane	< 0.31	10	0.31	ug/L							
Indeno (1,2,3-cd) pyrene	< 0.31	10	0.31	ug/L							
Isophorone	< 0.23	10	0.23	ug/L							
Naphthalene	< 0.37	10	0.37	ug/L							
Nitrobenzene	< 0.39	10	0.39	ug/L							
N-Nitrosodimethylamine	< 0.95	10	0.95	ug/L							
N-Nitrosodi-n-propylamine	< 0.21	10	0.21	ug/L							
N-Nitrosodiphenylamine	< 0.23	10	0.23	ug/L							
Pentachlorophenol	< 0.59	10	0.59	ug/L							
Phenanthrene	< 0.39	10	0.39	ug/L							
Phenol	< 0.57	10	0.57	ug/L							
Pyrene	< 0.47	10	0.47	ug/L							
Surrogate: 2,4,6-Tribromophenol	*102*			*ug/L*	*100*		*102*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*68.8*			*ug/L*	*100*		*68.8*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*70.0*			*ug/L*	*100*		*70.0*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*80.3*			*ug/L*	*100*		*80.3*	*47.4-97.8*			
Surrogate: Phenol-d6	*63.2*			*ug/L*	*100*		*63.2*	*30-91.5*			
Surrogate: Terphenyl-d14	*69.5*			*ug/L*	*100*		*69.5*	*30-108*			

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Barr Engineering Co.	Project:	23/19-0B05.07			
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300		Work Order #:	0903902
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/18/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0803 - EPA 3510C (Sep Funnel)											
LCS (B9I0803-BS1)					Prepared & Analyzed: 09/08/09						
1,2,4-Trichlorobenzene	62.5	10	0.19	ug/L	100		62.5	48.2-88.3			
1,4-Dichlorobenzene	55.2	10	0.22	ug/L	100		55.2	42.8-82.2			
2,4-Dinitrotoluene	94.1	10	0.33	ug/L	100		94.1	64.6-98.9			
2-Chlorophenol	73.1	10	0.45	ug/L	100		73.1	56.5-88.1			
4-Chloro-3-methylphenol	77.1	10	0.55	ug/L	100		77.1	63.4-95.2			
4-Nitrophenol	75.1	10	1.2	ug/L	100		75.1	51.3-90.6			
Anthracene	75.0	10	0.37	ug/L	100		75.0	66.7-92.8			
Benzo (a) anthracene	83.1	10	0.37	ug/L	100		83.1	72.7-97.2			
Benzo (a) pyrene	76.4	10	0.29	ug/L	100		76.4	66.4-101			
Chrysene	82.1	10	0.27	ug/L	100		82.1	71.5-98.1			
Fluoranthene	77.3	10	0.39	ug/L	100		77.3	68.8-94			
Fluorene	72.9	10	0.40	ug/L	100		72.9	64.2-94.4			
N-Nitrosodi-n-propylamine	69.5	10	0.21	ug/L	100		69.5	63.6-92.8			
Pentachlorophenol	88.2	10	0.59	ug/L	100		88.2	60.2-101			
Phenanthrene	76.3	10	0.39	ug/L	100		76.3	68.1-94.8			
Phenol	52.8	10	0.57	ug/L	100		52.8	39.6-71			
Surrogate: 2,4,6-Tribromophenol	*96.8*			*ug/L*	*100*		*96.8*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*66.9*			*ug/L*	*100*		*66.9*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*67.0*			*ug/L*	*100*		*67.0*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*77.8*			*ug/L*	*100*		*77.8*	*47.4-97.8*			
Surrogate: Phenol-d6	*61.1*			*ug/L*	*100*		*61.1*	*30-91.5*			
Surrogate: Terphenyl-d14	*76.7*			*ug/L*	*100*		*76.7*	*30-108*			
Matrix Spike (B9I0803-MS1)		**Source: 0903907-22**			Prepared & Analyzed: 09/08/09						
1,2,4-Trichlorobenzene	66.8	9.3	0.18	ug/L	92.6	<9.3	72.2	43.8-87.4			
1,4-Dichlorobenzene	60.3	9.3	0.20	ug/L	92.6	<9.3	65.2	43.7-78.7			
2,4-Dinitrotoluene	89.0	9.3	0.31	ug/L	92.6	<9.3	96.1	52.8-100			
2-Chlorophenol	66.5	9.3	0.42	ug/L	92.6	<9.3	71.8	30.1-95			
4-Chloro-3-methylphenol	71.9	9.3	0.51	ug/L	92.6	<9.3	77.6	44.8-98.7			
4-Nitrophenol	66.7	9.3	1.1	ug/L	92.6	<9.3	72.0	32.5-99.6			
Anthracene	70.8	9.3	0.34	ug/L	92.6	<9.3	76.4	44.8-97.6			
Benzo (a) anthracene	78.2	9.3	0.34	ug/L	92.6	<9.3	84.5	30-115			
Benzo (a) pyrene	71.7	9.3	0.27	ug/L	92.6	<9.3	77.4	30-110			
Chrysene	77.5	9.3	0.25	ug/L	92.6	<9.3	83.8	30-115			
Fluoranthene	72.9	9.3	0.36	ug/L	92.6	<9.3	78.7	37.4-103			
Fluorene	68.8	9.3	0.37	ug/L	92.6	<9.3	74.3	49.6-92.1			
N-Nitrosodi-n-propylamine	65.5	9.3	0.19	ug/L	92.6	<9.3	70.8	44.9-100			
Pentachlorophenol	80.7	9.3	0.55	ug/L	92.6	<9.3	87.2	31.2-123			
Phenanthrene	71.5	9.3	0.36	ug/L	92.6	<9.3	77.2	47-99.1			
Phenol	46.2	9.3	0.53	ug/L	92.6	<9.3	49.9	30-79.5			

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903902
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/18/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0803 - EPA 3510C (Sep Funnel)											
Matrix Spike (B9I0803-MS1)		**Source: 0903907-22**			Prepared & Analyzed: 09/08/09						
Surrogate: 2,4,6-Tribromophenol	*89.5*			*ug/L*	*92.6*		*96.7*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*64.8*			*ug/L*	*92.6*		*69.9*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*58.5*			*ug/L*	*92.6*		*63.2*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*73.1*			*ug/L*	*92.6*		*78.9*	*47.4-97.8*			
Surrogate: Phenol-d6	*53.0*			*ug/L*	*92.6*		*57.3*	*30-91.5*			
Surrogate: Terphenyl-d14	*71.8*			*ug/L*	*92.6*		*77.5*	*30-108*			
Matrix Spike Dup (B9I0803-MSD1)		**Source: 0903907-22**			Prepared & Analyzed: 09/08/09						
1,2,4-Trichlorobenzene	65.0	9.3	0.18	ug/L	92.6	<9.3	70.2	43.8-87.4	2.83	28.2	
1,4-Dichlorobenzene	57.4	9.3	0.20	ug/L	92.6	<9.3	62.0	43.7-78.7	5.02	25	
2,4-Dinitrotoluene	89.2	9.3	0.31	ug/L	92.6	<9.3	96.3	52.8-100	0.180	15	
2-Chlorophenol	64.8	9.3	0.42	ug/L	92.6	<9.3	70.0	30.1-95	2.64	27.5	
4-Chloro-3-methylphenol	71.7	9.3	0.51	ug/L	92.6	<9.3	77.4	44.8-98.7	0.241	27.6	
4-Nitrophenol	66.3	9.3	1.1	ug/L	92.6	<9.3	71.6	32.5-99.6	0.511	35	
Anthracene	69.3	9.3	0.34	ug/L	92.6	<9.3	74.9	44.8-97.6	2.06	21	
Benzo (a) anthracene	77.8	9.3	0.34	ug/L	92.6	<9.3	84.0	30-115	0.522	33.7	
Benzo (a) pyrene	71.1	9.3	0.27	ug/L	92.6	<9.3	76.8	30-110	0.796	33.8	
Chrysene	77.5	9.3	0.25	ug/L	92.6	<9.3	83.7	30-115	0.0920	35.1	
Fluoranthene	71.3	9.3	0.36	ug/L	92.6	<9.3	77.0	37.4-103	2.13	29.1	
Fluorene	68.3	9.3	0.37	ug/L	92.6	<9.3	73.8	49.6-92.1	0.632	19.7	
N-Nitrosodi-n-propylamine	64.0	9.3	0.19	ug/L	92.6	<9.3	69.1	44.9-100	2.41	18.6	
Pentachlorophenol	79.5	9.3	0.55	ug/L	92.6	<9.3	85.8	31.2-123	1.53	32.2	
Phenanthrene	70.2	9.3	0.36	ug/L	92.6	<9.3	75.8	47-99.1	1.85	18.4	
Phenol	44.7	9.3	0.53	ug/L	92.6	<9.3	48.3	30-79.5	3.38	33.6	
Surrogate: 2,4,6-Tribromophenol	*88.2*			*ug/L*	*92.6*		*95.3*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*64.1*			*ug/L*	*92.6*		*69.3*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*56.7*			*ug/L*	*92.6*		*61.2*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*71.6*			*ug/L*	*92.6*		*77.3*	*47.4-97.8*			
Surrogate: Phenol-d6	*51.0*			*ug/L*	*92.6*		*55.1*	*30-91.5*			
Surrogate: Terphenyl-d14	*71.4*			*ug/L*	*92.6*		*77.1*	*30-108*			

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903902
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/18/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0809 - EPA 5030 Water (Purge and Trap)											
Blank (B9I0809-BLK1)					Prepared & Analyzed: 09/08/09						
1,1,1,2-Tetrachloroethane	< 0.28	1.0	0.28	ug/L							
1,1,1-Trichloroethane	< 0.17	1.0	0.17	ug/L							
1,1,2,2-Tetrachloroethane	< 0.13	1.0	0.13	ug/L							
1,1,2-Trichloroethane	< 0.19	1.0	0.19	ug/L							
1,1,2-Trichlorotrifluoroethane	< 0.28	1.0	0.28	ug/L							
1,1-Dichloroethane	< 0.11	1.0	0.11	ug/L							
1,1-Dichloroethene	< 0.12	1.0	0.12	ug/L							
1,1-Dichloropropene	< 0.15	1.0	0.15	ug/L							
1,2,3-Trichlorobenzene	< 0.47	5.0	0.47	ug/L							
1,2,3-Trichloropropane	< 0.24	2.5	0.24	ug/L							
1,2,4-Trichlorobenzene	< 0.32	5.0	0.32	ug/L							
1,2,4-Trimethylbenzene	< 0.17	1.0	0.17	ug/L							
1,2-Dibromo-3-chloropropane	< 0.60	5.0	0.60	ug/L							
1,2-Dibromoethane (EDB)	< 0.37	2.5	0.37	ug/L							
1,2-Dichlorobenzene	< 0.16	1.0	0.16	ug/L							
1,2-Dichloroethane	< 0.18	1.0	0.18	ug/L							
1,2-Dichloropropane	< 0.21	1.0	0.21	ug/L							
1,3,5-Trimethylbenzene	< 0.18	1.0	0.18	ug/L							
1,3-Dichlorobenzene	< 0.21	1.0	0.21	ug/L							
1,3-Dichloropropane	< 0.15	1.0	0.15	ug/L							
1,4-Dichlorobenzene	< 0.17	1.0	0.17	ug/L							
2,2-Dichloropropane	< 0.58	5.0	0.58	ug/L							
2-Butanone	< 0.67	20	0.67	ug/L							
2-Chlorotoluene	< 0.17	1.0	0.17	ug/L							
4-Chlorotoluene	< 0.14	1.0	0.14	ug/L							
Acetone	< 2.8	20	2.8	ug/L							
Allyl chloride	< 0.76	5.0	0.76	ug/L							
Benzene	< 0.093	1.0	0.093	ug/L							
Bromobenzene	< 0.17	1.0	0.17	ug/L							
Bromochloromethane	< 0.21	1.0	0.21	ug/L							
Bromodichloromethane	< 0.22	1.0	0.22	ug/L							
Bromoform	< 0.50	5.0	0.50	ug/L							
Bromomethane	< 0.95	5.0	0.95	ug/L							
Carbon tetrachloride	< 0.16	1.0	0.16	ug/L							
Chlorobenzene	< 0.15	1.0	0.15	ug/L							
Chloroethane	< 0.46	2.5	0.46	ug/L							
Chloroform	< 0.19	1.0	0.19	ug/L							
Chloromethane	< 0.37	2.5	0.37	ug/L							
cis-1,2-Dichloroethene	< 0.19	1.0	0.19	ug/L							

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903902
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/18/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0809 - EPA 5030 Water (Purge and Trap)											
Blank (B9I0809-BLK1)					Prepared & Analyzed: 09/08/09						
cis-1,3-Dichloropropene	< 0.16	1.0	0.16	ug/L							
Dibromochloromethane	< 0.50	2.5	0.50	ug/L							
Dibromomethane	< 0.30	2.5	0.30	ug/L							
Dichlorodifluoromethane	< 0.58	5.0	0.58	ug/L							
Dichlorofluoromethane	< 0.31	1.0	0.31	ug/L							
Ethyl ether	< 0.53	5.0	0.53	ug/L							
Ethylbenzene	< 0.21	1.0	0.21	ug/L							
Hexachlorobutadiene	< 0.76	10	0.76	ug/L							
Isopropylbenzene	< 0.17	1.0	0.17	ug/L							
m,p-Xylene	< 0.42	2.0	0.42	ug/L							
Methyl isobutyl ketone	< 1.1	5.0	1.1	ug/L							
Methyl tert-butyl ether	< 0.13	1.0	0.13	ug/L							
Methylene chloride	< 0.65	5.0	0.65	ug/L							
Naphthalene	< 0.40	5.0	0.40	ug/L							
n-Butylbenzene	< 0.32	2.5	0.32	ug/L							
n-Propylbenzene	< 0.13	1.0	0.13	ug/L							
o-Xylene	< 0.18	1.0	0.18	ug/L							
p-Isopropyltoluene	< 0.30	2.5	0.30	ug/L							
sec-Butylbenzene	< 0.22	1.0	0.22	ug/L							
Styrene	< 0.13	1.0	0.13	ug/L							
tert-Butylbenzene	< 0.19	1.0	0.19	ug/L							
Tetrachloroethene	< 0.20	1.0	0.20	ug/L							
Tetrahydrofuran	< 0.77	20	0.77	ug/L							
Toluene	< 0.21	1.0	0.21	ug/L							
trans-1,2-Dichloroethene	< 0.29	1.0	0.29	ug/L							
trans-1,3-Dichloropropene	< 0.17	1.0	0.17	ug/L							
Trichloroethene	< 0.20	1.0	0.20	ug/L							
Trichlorofluoromethane	< 0.17	1.0	0.17	ug/L							
Vinyl chloride	< 0.087	1.0	0.087	ug/L							
Surrogate: 4-Bromofluorobenzene	*56.7*			*ug/L*	*50.0*		*113*	*76.4-125*			
Surrogate: Dibromofluoromethane	*52.7*			*ug/L*	*50.0*		*105*	*80-120*			
Surrogate: Toluene-d8	*53.5*			*ug/L*	*50.0*		*107*	*80-125*			
LCS (B9I0809-BS1)					Prepared & Analyzed: 09/08/09						
1,1,2,2-Tetrachloroethane	50.2	1.0	0.13	ug/L	50.0		100	80-120			
1,1-Dichloroethane	53.0	1.0	0.11	ug/L	50.0		106	76.6-120			
1,1-Dichloroethene	53.3	1.0	0.12	ug/L	50.0		107	75.9-120			
1,3,5-Trimethylbenzene	46.0	1.0	0.18	ug/L	50.0		92.0	80-120			
1,4-Dichlorobenzene	49.2	1.0	0.17	ug/L	50.0		98.5	75-125			
2-Chlorotoluene	46.0	1.0	0.17	ug/L	50.0		91.9	80-120			

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903902
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/18/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0809 - EPA 5030 Water (Purge and Trap)											
LCS (B9I0809-BS1)					Prepared & Analyzed: 09/08/09						
Benzene	52.1	1.0	0.093	ug/L	50.0		104	80-120			
Bromoform	52.6	5.0	0.50	ug/L	50.0		105	75.4-125			
Chlorobenzene	51.3	1.0	0.15	ug/L	50.0		103	80-120			
Chloroform	52.2	1.0	0.19	ug/L	50.0		104	80-120			
Ethylbenzene	50.7	1.0	0.21	ug/L	50.0		101	80-120			
n-Butylbenzene	49.5	2.5	0.32	ug/L	50.0		99.0	70.6-125			
n-Propylbenzene	46.5	1.0	0.13	ug/L	50.0		93.0	79.7-120			
Toluene	52.6	1.0	0.21	ug/L	50.0		105	80-120			
Trichloroethene	50.4	1.0	0.20	ug/L	50.0		101	80-120			
Vinyl chloride	51.1	1.0	0.087	ug/L	50.0		102	75-129			
Surrogate: 4-Bromofluorobenzene	*56.2*			*ug/L*	*50.0*		*112*	*76.4-125*			
Surrogate: Dibromofluoromethane	*51.5*			*ug/L*	*50.0*		*103*	*80-120*			
Surrogate: Toluene-d8	*51.6*			*ug/L*	*50.0*		*103*	*80-125*			
Matrix Spike (B9I0809-MS1)		**Source: 0903883-01**			Prepared & Analyzed: 09/08/09						
1,1,2,2-Tetrachloroethane	51.8	1.0	0.13	ug/L	50.0	<1.0	104	80-120			
1,1-Dichloroethane	56.6	1.0	0.11	ug/L	50.0	<1.0	113	78-120			
1,1-Dichloroethene	53.9	1.0	0.12	ug/L	50.0	<1.0	108	75-120			
1,3,5-Trimethylbenzene	48.0	1.0	0.18	ug/L	50.0	<1.0	96.1	75.8-120			
1,4-Dichlorobenzene	48.4	1.0	0.17	ug/L	50.0	<1.0	96.9	75-125			
2-Chlorotoluene	46.8	1.0	0.17	ug/L	50.0	<1.0	93.7	79.1-120			
Benzene	53.8	1.0	0.093	ug/L	50.0	<1.0	108	80-120			
Bromoform	54.4	5.0	0.50	ug/L	50.0	<5.0	109	80-123			
Chlorobenzene	53.6	1.0	0.15	ug/L	50.0	<1.0	107	80-120			
Chloroform	54.9	1.0	0.19	ug/L	50.0	<1.0	110	80-120			
Ethylbenzene	52.3	1.0	0.21	ug/L	50.0	<1.0	105	80-120			
n-Butylbenzene	47.7	2.5	0.32	ug/L	50.0	<2.5	95.4	74.2-125			
n-Propylbenzene	47.5	1.0	0.13	ug/L	50.0	<1.0	94.9	76.3-120			
Toluene	54.5	1.0	0.21	ug/L	50.0	<1.0	109	80-120			
Trichloroethene	51.8	1.0	0.20	ug/L	50.0	<1.0	104	80-120			
Vinyl chloride	55.0	1.0	0.087	ug/L	50.0	<1.0	110	70.3-126			
Surrogate: 4-Bromofluorobenzene	*58.2*			*ug/L*	*50.0*		*116*	*76.4-125*			
Surrogate: Dibromofluoromethane	*52.5*			*ug/L*	*50.0*		*105*	*80-120*			
Surrogate: Toluene-d8	*53.3*			*ug/L*	*50.0*		*107*	*80-125*			
Matrix Spike Dup (B9I0809-MSD1)		**Source: 0903883-01**			Prepared & Analyzed: 09/08/09						
1,1,2,2-Tetrachloroethane	50.4	1.0	0.13	ug/L	50.0	<1.0	101	80-120	2.84	20	
1,1-Dichloroethane	55.1	1.0	0.11	ug/L	50.0	<1.0	110	78-120	2.81	20	
1,1-Dichloroethene	54.1	1.0	0.12	ug/L	50.0	<1.0	108	75-120	0.290	20	
1,3,5-Trimethylbenzene	45.7	1.0	0.18	ug/L	50.0	<1.0	91.4	75.8-120	4.91	20	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903902
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/18/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0809 - EPA 5030 Water (Purge and Trap)											
Matrix Spike Dup (B9I0809-MSD1)		**Source: 0903883-01**			Prepared & Analyzed: 09/08/09						
1,4-Dichlorobenzene	48.1	1.0	0.17	ug/L	50.0	<1.0	96.1	75-125	0.752	20	
2-Chlorotoluene	45.2	1.0	0.17	ug/L	50.0	<1.0	90.4	79.1-120	3.56	20	
Benzene	52.9	1.0	0.093	ug/L	50.0	<1.0	106	80-120	1.70	20	
Bromoform	53.2	5.0	0.50	ug/L	50.0	<5.0	106	80-123	2.29	20	
Chlorobenzene	51.2	1.0	0.15	ug/L	50.0	<1.0	102	80-120	4.67	20	
Chloroform	53.9	1.0	0.19	ug/L	50.0	<1.0	108	80-120	1.89	20	
Ethylbenzene	50.4	1.0	0.21	ug/L	50.0	<1.0	101	80-120	3.66	20	
n-Butylbenzene	48.2	2.5	0.32	ug/L	50.0	<2.5	96.3	74.2-125	0.944	20	
n-Propylbenzene	45.6	1.0	0.13	ug/L	50.0	<1.0	91.3	76.3-120	3.91	20	
Toluene	53.1	1.0	0.21	ug/L	50.0	<1.0	106	80-120	2.71	20	
Trichloroethene	50.8	1.0	0.20	ug/L	50.0	<1.0	102	80-120	1.81	20	
Vinyl chloride	55.7	1.0	0.087	ug/L	50.0	<1.0	111	70.3-126	1.25	20	
Surrogate: 4-Bromofluorobenzene	*56.7*			*ug/L*	*50.0*		*113*	*76.4-125*			
Surrogate: Dibromofluoromethane	*51.7*			*ug/L*	*50.0*		*103*	*80-120*			
Surrogate: Toluene-d8	*52.1*			*ug/L*	*50.0*		*104*	*80-125*			

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903902
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/18/09

Notes and Definitions

J	Parameter was present between the MDL and RL and should be considered an estimated value
<	Less than value listed
dry	Sample results reported on a dry weight basis
NA	Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL	Method Detection Limit
RL	Reporting Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
MS	Matrix Spike = Laboratory Fortified Matrix (LFM)

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0903902

Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number: 23/119-805S1/R1 300
Project Name: UMA SS1/R1 № 28516

COC 1 of 1
Project Manager: SMC
Project Contact: KSN
Sampled by: ESC
Laboratory: Legend

Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Volatile Organics (Pres.) *1	Semivolatile Organics *2	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	General (Unpreserved) *3	Cyanide (NaOH)	Nutrients (H_2SO_4) *4	Oil and Grease (H_2SO_4)	Sulfide (Zn Acetate)	Methane	Bacteria ($Na_2S_2O_3$)	DRO (HCl)	VOCs (2-oz tared MeOH) *1	GRO, BTEX (2-oz tared MeOH) *1	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.) *2	% Moisture (plastic vial, unpres.)	Total No. Of Containers	Remarks
1. SCS-GP4	9-8-09	09:00	X		X			3															5				Metals are field filtered
2.																											See attached analyte list
3.																											
4.																											
5.																											
6.																											
7.																											
8.																											
9.																											
10.																											
11.																											
12.																											

Relinquished By: On Ice? Y N Date Time
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Received By: Date 9/10/09 Time 11:30
Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Courier ☐ Other
Air Bill Number:

Common Parameter/Container - Preservation Key
*1 - Volatile Organics = BTEX, GRO, TPH, Full List
*2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
*3 - General = pH, Chloride, Flouride, Alkalinity, TSS, TDS, TS, Sulfate
*4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Job Coordinator

HRLEGSTDFORMS/Chain Of Custody Form RLG Rev 07/01/05

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [1]	Minnesota Tier SLV [4]	Minnesota SRV [5]	Minnesota Tier II Industrial SRV [6]
Metals										
Antimony	7440-36-0	Soil/Solid	6010B	0.0055	0.50	mg/kg	--	2.7	12	100
Arsenic	7440-38-2	Soil/Solid	6010B	0.10	0.50	mg/kg	--	15.1	9	20
Beryllium	7440-41-7	Soil/Solid	6010B	0.011	0.25	mg/kg	--	1.4	55	230
Cadmium	7440-43-9	Soil/Solid	6010B	0.025	0.25	mg/kg	--	4.4	25	200
Chromium	7440-47-3	Soil/Solid	6010B	0.012	0.50	mg/kg	--	1000000 (8)	44000 (8)	100000 (8)
Copper	7440-50-8	Soil/Solid	6010B	0.070	1.0	mg/kg	--	400	100	9000
Lead	7439-92-1	Soil/Solid	6010B	0.034	1.0	mg/kg	--	525	300	700
Nickel	7440-02-0	Soil/Solid	6010B	0.014	0.25	mg/kg	--	88	560	2500
Selenium	7782-49-2	Soil/Solid	6010B	0.11	1.0	mg/kg	--	1.5	160	1300
Silver	7440-22-4	Soil/Solid	6010B	0.0090	0.25	mg/kg	--	3.9	160	1300
Thallium	7440-28-0	Soil/Solid	6010B	0.13	2.0	mg/kg	--	--	3	21
Zinc	7440-66-6	Soil/Solid	6010B	0.22	1.0	mg/kg	--	1500	8700	75000
Metals										
Antimony	7440-36-0	Water/Liquid	6020	0.046	0.500	ug/L	6	--	--	--
Arsenic	7440-38-2	Water/Liquid	6010B	2	10.000	ug/L	--	--	--	--
Beryllium	7440-41-7	Water/Liquid	6020	0.027	0.5000	ug/L	0.08	--	--	--
Cadmium	7440-43-9	Water/Liquid	6010B	0.099	1.0000	ug/L	4	--	--	--
Chromium	7440-47-3	Water/Liquid	6010B	0.24	10.000	ug/L	100 (5)	--	--	--
Copper	7440-50-8	Water/Liquid	6010B	1.4	20.000	ug/L	--	--	--	--
Lead	7439-92-1	Water/Liquid	6010B	0.68	3.0000	ug/L	--	--	--	--
Nickel	7440-02-0	Water/Liquid	6010B	0.28	5.0000	ug/L	100	--	--	--
Selenium	7782-49-2	Water/Liquid	6010B	2.2	20.000	ug/L	30	--	--	--
Silver	7440-22-4	Water/Liquid	6010B	0.18	5.0000	ug/L	30	--	--	--
Thallium	7440-28-0	Water/Liquid	6020	0.0081	0.500	ug/L	0.6	--	--	--
Zinc	7440-66-6	Water/Liquid	6010B	4.4	20.000	ug/L	2000	--	--	--
Mercury										
Mercury	7439-97-6	Soil/Solid	7471A	0.0031	0.10	mg/kg	--	1.5 C	0.5	1.5
Mercury	7439-97-6	Water/Liquid	7470A	0.000031	0.00020	mg/L	--	--	--	--
Nitrate+Nitrite Nitrogen as N (Braun)										
N+N Nitrogen as N	NA	Water/Liquid	SM4500-NO3-F	0.007	0.02	mg/L	10 (3)	--	--	--
Total Kjeldahl Nitrogen (Braun)										
TKN as N	NA	Water/Liquid	SM4500-NH3-C	0.17	0.5	mg/L	--	--	--	--
Perchlorate (TA)										
Perchlorate	NA	Water/Liquid	314	0.36	4	ug/L	--	--	--	--
Nitrocellulose (TA)										
Nitrocellulose	NA	Soil/Solid	353.2Mod	0.78	0.5	mg/kg	--	--	--	--
Nitrocellulose (TA)										
Nitrocellulose	NA	Water/Liquid	353.2Mod	0.124	0.5	mg/L	--	--	--	--
Organochlorine Pesticides										
4,4'-DDD	72-54-8	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	56	125
4,4'-DDE	72-55-9	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	40	80
4,4'-DDT	50-29-3	Soil/Solid	8081A	0.0020	0.040	mg/kg	--	--	15	88
a-Chlordane	5103-71-9	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	--	--
Aldrin	309-00-2	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	1	2
alpha-BHC	319-84-6	Soil/Solid	8081A	0.0011	0.040	mg/kg	--	--	2	3.5
beta-BHC	319-85-7	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	7	15
delta-BHC	319-86-8	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	--	--
Dieldrin	60-57-1	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	0.8	2
Endosulfan I	959-98-8	Soil/Solid	8081A	0.0013	0.040	mg/kg	--	--	--	--
Endosulfan II	891-86-1	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
Endosulfan sulfate	1031-07-8	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
Endrin	72-20-8	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	8	56
Endrin aldehyde	7421-93-4	Soil/Solid	8081A	0.0041	0.040	mg/kg	--	--	--	--
Endrin ketone	53494-70-5	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
gamma-BHC (Lindane)	58-89-9	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	9	15
gamma-Chlordane	5566-34-7	Soil/Solid	8081A	0.0017	0.040	mg/kg	--	--	--	--
Heptachlor	76-44-8	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	2	3.5
Heptachlor epoxide	1024-57-3	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	0.4	3
Methoxychlor	72-43-5	Soil/Solid	8081A	0.0019	0.040	mg/kg	--	--	11	50
Toxaphene	8001-35-2	Soil/Solid	8081A	0.015	0.080	mg/kg	--	--	13	28
Organochlorine Pesticides										
4,4'-DDD	72-54-8	Water/Liquid	8081A	0.026	0.40	ug/L	1	--	--	--
4,4'-DDE	72-55-9	Water/Liquid	8081A	0.037	0.40	ug/L	1	--	--	--
4,4'-DDT	50-29-3	Water/Liquid	8081A	0.031	0.40	ug/L	1	--	--	--
a-Chlordane	5103-71-9	Water/Liquid	8081A	0.030	0.40	ug/L	--	--	--	--
Aldrin	309-00-2	Water/Liquid	8081A	0.036	0.40	ug/L	--	--	--	--
alpha-BHC	319-84-6	Water/Liquid	8081A	0.026	0.40	ug/L	--	--	--	--
beta-BHC	319-85-7	Water/Liquid	8081A	0.026	0.40	ug/L	--	--	--	--
delta-BHC	319-86-8	Water/Liquid	8081A	0.023	0.40	ug/L	--	--	--	--
Dieldrin	60-57-1	Water/Liquid	8081A	0.031	0.40	ug/L	0.006 (4)	--	--	--
Endosulfan I	959-98-8	Water/Liquid	8081A	0.032	0.40	ug/L	--	--	--	--
Endosulfan II	891-86-1	Water/Liquid	8081A	0.035	0.40	ug/L	--	--	--	--

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Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [1]	Minnesota Tier SLV [4]	Minnesota SRV [5]	Minnesota Tier II Industrial SRV [6]
Endosulfan sulfate	1031-07-8	Water/Liquid	8081A	0.034	0.40	ug/L	--	--	--	--
Endrin	72-20-8	Water/Liquid	8081A	0.029	0.40	ug/L	--	--	--	--
Endrin aldehyde	7421-93-4	Water/Liquid	8081A	0.044	0.40	ug/L	--	--	--	--
Endrin ketone	53494-70-5	Water/Liquid	8081A	0.031	0.40	ug/L	--	--	--	--
gamma-BHC (Lindane)	58-89-9	Water/Liquid	8081A	0.024	0.40	ug/L	--	--	--	--
gamma-Chlordane	5566-34-7	Water/Liquid	8081A	0.030	0.40	ug/L	--	--	--	--
Heptachlor	76-44-8	Water/Liquid	8081A	0.028	0.40	ug/L	0.08	--	--	--
Heptachlor epoxide	1024-57-3	Water/Liquid	8081A	0.030	0.40	ug/L	0.04	--	--	--
Methoxychlor	72-43-5	Water/Liquid	8081A	0.032	0.40	ug/L	--	--	--	--
Toxaphene	8001-35-2	Water/Liquid	8081A	0.069	1.00	ug/L	0.3	--	--	--
MDA List 1 Pesticides (Braun)										
EPTC	759-94-4	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Propachlor	1918-16-7	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Ethalfluralin	55283-68-6	Soil/Solid	8270C	0.014	0.04	mg/kg	--	--	--	--
Deisopropylatrazine	1007-28-9	Soil/Solid	8270C	0.0080	0.04	mg/kg	--	--	--	--
Trifluralin	1582-09-8	Soil/Solid	8270C	0.014	0.04	mg/kg	--	--	--	--
Desethylatrazine	6190-65-4	Soil/Solid	8270C	0.011	0.04	mg/kg	--	--	--	--
Phorate	298-02-2	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Prometon	1610-18-0	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Simazine	122-34-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Atrazine	1912-24-9	Soil/Solid	8270C	0.0100	0.04	mg/kg	--	--	--	--
Propazine	139-40-2	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Terbufos	13071-79-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	0.6	3.5
Fonofos	944-22-9	Soil/Solid	8270C	0.0040	0.04	mg/kg	--	--	--	--
Triallate	2303-17-5	Soil/Solid	8270C	0.0050	0.04	mg/kg	--	--	--	--
Metribuzin	21087-64-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Dimethenamid	87674-68-8	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Acetochlor	34256-82-1	Soil/Solid	8270C	0.010	0.04	mg/kg	--	--	--	--
Alachlor	15972-60-8	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Cyanazine	21725-46-2	Soil/Solid	8270C	0.0080	0.04	mg/kg	--	--	--	--
Metolachlor	51218-45-2	Soil/Solid	8270C	0.0030	0.04	mg/kg	--	--	435	3300
Chlorpyrifos	2921-88-2	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Pendimethalin	40487-42-1	Soil/Solid	8270C	0.016	0.04	mg/kg	--	--	--	--
MDA List 1 Pesticides (Braun)										
EPTC	759-94-4	Water/Liquid	8270C	0.22	0.50	ug/L	200	--	--	--
Propachlor	1918-16-7	Water/Liquid	8270C	0.14	0.50	ug/L	--	--	--	--
Ethalfluralin	55283-68-6	Water/Liquid	8270C	0.47	0.50	ug/L	300 (1)	--	--	--
Deisopropylatrazine	1007-28-9	Water/Liquid	8270C	0.26	0.50	ug/L	--	--	--	--
Trifluralin	1582-09-8	Water/Liquid	8270C	0.21	0.50	ug/L	5 (1)	--	--	--
Desethylatrazine	6190-65-4	Water/Liquid	8270C	0.29	0.50	ug/L	--	--	--	--
Phorate	298-02-2	Water/Liquid	8270C	0.58	1.00	ug/L	1 (1)	--	--	--
Prometon	1610-18-0	Water/Liquid	8270C	0.29	0.50	ug/L	100	--	--	--
Simazine	122-34-9	Water/Liquid	8270C	0.32	0.50	ug/L	4 (3)	--	--	--
Atrazine	1912-24-9	Water/Liquid	8270C	0.24	0.50	ug/L	3 (3)	--	--	--
Propazine	139-40-2	Water/Liquid	8270C	0.21	0.50	ug/L	10 (1)	--	--	--
Terbufos	13071-79-9	Water/Liquid	8270C	0.54	1.00	ug/L	0.2 (1)	--	--	--
Fonofos	944-22-9	Water/Liquid	8270C	0.30	0.50	ug/L	10 (1)	--	--	--
Triallate	2303-17-5	Water/Liquid	8270C	0.34	0.50	ug/L	9 (1)	--	--	--
Metribuzin	21087-64-9	Water/Liquid	8270C	0.35	0.50	ug/L	200	--	--	--
Dimethenamid	87674-68-8	Water/Liquid	8270C	0.24	0.50	ug/L	40 (1)	--	--	--
Acetochlor	34256-82-1	Water/Liquid	8270C	0.25	0.50	ug/L	9 (4)	--	--	--
Alachlor	15972-60-8	Water/Liquid	8270C	0.19	0.50	ug/L	5 (4)	--	--	--
Cyanazine	21725-46-2	Water/Liquid	8270C	0.48	0.50	ug/L	1	--	--	--
Metolachlor	51218-45-2	Water/Liquid	8270C	0.28	0.50	ug/L	300 (4)	--	--	--
Chlorpyrifos	2921-88-2	Water/Liquid	8270C	0.34	0.50	ug/L	20 (1)	--	--	--
Pendimethalin	40487-42-1	Water/Liquid	8270C	0.25	0.50	ug/L	--	--	--	--
MDA List 2 Pesticides (Braun)										
Dicamba	1918-00-9	Soil/Solid	8270C	0.008	0.50	mg/kg	--	--	--	--
MCPA	94-74-6	Soil/Solid	8270C	0.014	0.50	mg/kg	--	--	16	110
2,4-D	94-75-7	Soil/Solid	8270C	0.012	0.50	mg/kg	--	--	285	2200
Trichlopyr	55336-06-3	Soil/Solid	8270C	0.008	0.50	mg/kg	--	--	--	--
Pentachlorophenol	87-86-5	Soil/Solid	8270C	0.007	0.50	mg/kg	--	--	80	120
2,4,5-T.P.	93-72-1	Soil/Solid	8270C	0.007	0.50	mg/kg	--	--	--	--
2,4,5-T	93-76-5	Soil/Solid	8270C	0.009	0.50	mg/kg	--	--	290	2150
Dinoseb	88-85-7	Soil/Solid	8270C	0.005	0.50	mg/kg	--	--	--	--
2,4-D.B.	94-82-6	Soil/Solid	8270C	0.011	0.50	mg/kg	--	--	226	1750
Bentazone	25057-89-0	Soil/Solid	8270C	0.009	0.50	mg/kg	--	--	--	--
Picloram	1918-02-1	Soil/Solid	8270C	0.011	0.50	mg/kg	--	--	2000	15000
MDA List 2 Pesticides (Braun)										
Dicamba	1918-00-9	Water/Liquid	8270C	0.38	0.50	ug/L	200	--	--	--

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Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [1]	Minnesota Tier SLV [2]	Minnesota SRV [3]	Minnesota Tier II Industrial SRV [4]
MCPA	94-74-6	Water/Liquid	8270C	0.29	0.30	ug/L	--	--	--	--
2,4-D	94-75-7	Water/Liquid	8270C	0.26	0.50	ug/L	70	--	--	--
Trichlopyr	55336-06-3	Water/Liquid	8270C	0.41	0.50	ug/L	300 (1)	--	--	--
Pentachlorophenol	87-86-5	Water/Liquid	8270C	0.39	0.50	ug/L	1 (3)	--	--	--
2,4,5-T.P.	93-72-1	Water/Liquid	8270C	0.28	0.50	ug/L	50 (3)	--	--	--
2,4,5-T	93-76-5	Water/Liquid	8270C	0.31	0.50	ug/L	--	--	--	--
Dinoseb	88-85-7	Water/Liquid	8270C	0.34	0.50	ug/L	7 (1)	--	--	--
2,4-D.B.	94-82-6	Water/Liquid	8270C	0.15	0.50	ug/L	60 (1)	--	--	--
Bentazone	25057-89-0	Water/Liquid	8270C	0.22	0.50	ug/L	200 (1)	--	--	--
Picloram	1918-02-1	Water/Liquid	8270C	0.25	0.50	ug/L	500	--	--	--
PCBs										
Aroclor 1016	12674-11-2	Soil/Solid	8082	0.017	0.20	mg/kg	--	--	--	--
Aroclor 1221	11104-28-2	Soil/Solid	8082	0.039	0.20	mg/kg	--	--	--	--
Aroclor 1232	11141-16-5	Soil/Solid	8082	0.010	0.20	mg/kg	--	--	--	--
Aroclor 1242	53469-21-9	Soil/Solid	8082	0.016	0.20	mg/kg	--	--	--	--
Aroclor 1248	12672-29-6	Soil/Solid	8082	0.0078	0.20	mg/kg	--	--	--	--
Aroclor 1254	11097-69-1	Soil/Solid	8082	0.0071	0.20	mg/kg	--	--	--	--
Aroclor 1260	11096-82-5	Soil/Solid	8082	0.015	0.20	mg/kg	--	--	--	--
PCBs										
Aroclor 1016	12674-11-2	Water/Liquid	8082	0.41	2.0	ug/L	--	--	--	--
Aroclor 1221	11104-28-2	Water/Liquid	8082	0.36	2.0	ug/L	--	--	--	--
Aroclor 1232	11141-16-5	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1242	53469-21-9	Water/Liquid	8082	0.58	2.0	ug/L	--	--	--	--
Aroclor 1248	12672-29-6	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1254	11097-69-1	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1260	11096-82-5	Water/Liquid	8082	0.32	2.0	ug/L	--	--	--	--
VOCs - Soil/Solid										
1,1,1,2-Tetrachloroethane	630-20-6	Soil/Solid	8260B	0.019	0.25	mg/kg	--	1.4	31	51
1,1,1-Trichloroethane	71-55-6	Soil/Solid	8260B	0.0098	0.25	mg/kg	--	3.5	140	472
1,1,2,2-Tetrachloroethane	79-34-5	Soil/Solid	8260B	0.012	0.25	mg/kg	--	0.005	3.5	6.5
1,1,2-Trichloroethane	79-00-5	Soil/Solid	8260B	0.022	0.25	mg/kg	--	0.010	9	14
1,1,2-Trichlorotrifluoroethane	76-13-1	Soil/Solid	8260B	0.052	0.25	mg/kg	--	2580	3745	5430
1,1-Dichloroethane	75-34-3	Soil/Solid	8260B	0.013	0.25	mg/kg	--	0.18	34	55
1,1-Dichloroethene	75-35-4	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.025	20	60
1,1-Dichloropropene	563-58-6	Soil/Solid	8260B	0.021	0.25	mg/kg	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	Soil/Solid	8260B	0.063	0.50	mg/kg	--	--	--	--
1,2,3-Trichloropropane	96-18-4	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.35	--	--
1,2,4-Trichlorobenzene	120-82-1	Soil/Solid	8260B	0.052	0.50	mg/kg	--	0.31	200	985
1,2,4-Trimethylbenzene	95-63-6	Soil/Solid	8260B	0.013	0.25	mg/kg	--	--	8	25
1,2-Dibromo-3-chloropropane	96-12-8	Soil/Solid	8260B	0.079	0.50	mg/kg	--	0.001	--	--
1,2-Dibromoethane (EDB)	106-93-4	Soil/Solid	8260B	0.0056	0.25	mg/kg	--	0.00001	0.3	0.5
1,2-Dichlorobenzene	95-50-1	Soil/Solid	8260B	0.0055	0.25	mg/kg	--	8.1	26	75
1,2-Dichloroethane	107-06-2	Soil/Solid	8260B	0.030	0.25	mg/kg	--	0.010	4	6
1,2-Dichloropropane	78-87-5	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.011	4	6
1,3,5-Trimethylbenzene	108-67-8	Soil/Solid	8260B	0.0077	0.25	mg/kg	--	--	3	10
1,3-Dichlorobenzene	541-73-1	Soil/Solid	8260B	0.015	0.25	mg/kg	--	4.2	26	200
1,3-Dichloropropane	142-28-9	Soil/Solid	8260B	0.017	0.25	mg/kg	--	--	--	--
1,4-Dichlorobenzene	106-46-7	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.13	30	50
2,2-Dichloropropane	594-20-7	Soil/Solid	8260B	0.034	0.50	mg/kg	--	--	--	--
2-Butanone	78-93-3	Soil/Solid	8260B	0.069	2.0	mg/kg	--	--	5500	19000
2-Chlorotoluene	95-49-8	Soil/Solid	8260B	0.015	0.25	mg/kg	--	--	436	436
4-Chlorotoluene	106-43-4	Soil/Solid	8260B	0.015	0.25	mg/kg	--	--	--	--
Acetone	67-64-1	Soil/Solid	8260B	0.16	2.0	mg/kg	--	0.7	340	1000
Allyl chloride	107-05-1	Soil/Solid	8260B	0.016	0.50	mg/kg	--	0.032	--	--
Benzene	71-43-2	Soil/Solid	8260B	0.0070	0.25	mg/kg	--	0.034	6	10
Bromobenzene	108-86-1	Soil/Solid	8260B	0.017	0.25	mg/kg	--	--	--	--
Bromochloromethane	74-97-5	Soil/Solid	8260B	0.021	0.25	mg/kg	--	0.15	--	--
Bromodichloromethane	75-27-4	Soil/Solid	8260B	0.020	0.25	mg/kg	--	0.013	10	17
Bromoform	75-25-2	Soil/Solid	8260B	0.015	0.50	mg/kg	--	0.14	370	650
Bromomethane	74-83-9	Soil/Solid	8260B	0.012	0.50	mg/kg	--	0.5	0.7	2
Carbon tetrachloride	56-23-5	Soil/Solid	8260B	0.018	0.25	mg/kg	--	0.023	0.3	0.9
Chlorobenzene	108-90-7	Soil/Solid	8260B	0.011	0.25	mg/kg	--	1.1	11	32
Chloroethane	75-00-3	Soil/Solid	8260B	0.045	0.25	mg/kg	--	--	1000	3000
Chloroform	67-66-3	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.17	2.5	4
Chloromethane	74-87-3	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.006	8	23
cis-1,2-Dichloroethene	156-59-2	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.14	8	22
cis-1,3-Dichloropropene	10061-01-5	Soil/Solid	8260B	0.0098	0.25	mg/kg	--	0.005 M	--	--
Dibromochloromethane	124-48-1	Soil/Solid	8260B	0.014	0.25	mg/kg	--	0.03	12	20
Dibromomethane	74-95-3	Soil/Solid	8260B	0.021	0.25	mg/kg	--	--	260	1860
Dichlorodifluoromethane	75-71-8	Soil/Solid	8260B	0.035	0.50	mg/kg	--	38	16	50
Dichlorofluoromethane	75-43-4	Soil/Solid	8260B	0.014	0.25	mg/kg	--	--	--	--
Ethyl ether	60-29-7	Soil/Solid	8260B	0.017	0.50	mg/kg	--	1.2	--	--
Ethylbenzene	100-41-4	Soil/Solid	8260B	0.011	0.25	mg/kg	--	4.7	200	200
Hexachlorobutadiene	87-68-3	Soil/Solid	8260B	0.11	1.0	mg/kg	--	25	6	37
Isopropylbenzene	98-82-8	Soil/Solid	8260B	0.019	0.25	mg/kg	--	18	30	87

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits	Minnesota Tier SLV [a]	Minnesota SRV [b]	Minnesota Tier II Industrial SRV [b]
m,p-Xylene	108-38-3/ 106-42-3	Soil/Solid	8260B	0.024	0.50	mg/kg	--	45 M	45 M	130 M
Methyl isobutyl ketone	108-10-1	Soil/Solid	8260B	0.031	0.50	mg/kg	--	0.42	1700	9000
Methyl tert-butyl ether	1634-04-4	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.027	--	--
Methylene chloride	75-09-2	Soil/Solid	8260B	0.043	1.0	mg/kg	--	0.068	97	158
Naphthalene	91-20-3	Soil/Solid	8260B	0.060	0.50	mg/kg	--	7.5	10	28
n-Butylbenzene	104-51-8	Soil/Solid	8260B	0.012	0.25	mg/kg	--	--	30	92
n-Propylbenzene	103-65-1	Soil/Solid	8260B	0.013	0.25	mg/kg	--	--	30	93
o-Xylene	95-47-6	Soil/Solid	8260B	0.015	0.25	mg/kg	--	45 M	45 M	130 M
p-Isopropyltoluene	99-87-6	Soil/Solid	8260B	0.014	0.25	mg/kg	--	--	--	--
sec-Butylbenzene	135-98-8	Soil/Solid	8260B	0.012	0.25	mg/kg	--	--	25	70
Styrene	100-42-5	Soil/Solid	8260B	0.012	0.25	mg/kg	--	1.9	210	600
tert-Butylbenzene	98-06-6	Soil/Solid	8260B	0.0073	0.25	mg/kg	--	--	30	90
Tetrachloroethene	127-18-4	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.068	72	131
Tetrahydrofuran	109-99-9	Soil/Solid	8260B	0.068	2.0	mg/kg	--	0.16	--	--
Toluene	108-88-3	Soil/Solid	8260B	0.0063	0.25	mg/kg	--	6.4	107	305
trans-1,2-Dichloroethene	156-60-5	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.27	11	33
trans-1,3-Dichloropropene	10061-02-6	Soil/Solid	8260B	0.013	0.25	mg/kg	--	0.005 M	--	--
Trichloroethene	79-01-6	Soil/Solid	8260B	0.013	0.25	mg/kg	--	0.14	29	46
Trichlorofluoromethane	75-69-4	Soil/Solid	8260B	0.035	0.25	mg/kg	--	22	67	195
Vinyl chloride	75-01-4	Soil/Solid	8260B	0.031	0.25	mg/kg	--	0.001	0.8	2.2
VOCs - Water/Liquid										
1,1,1,2-Tetrachloroethane	630-20-6	Water/Liquid	8260B	0.083	1.0	ug/L	70	--	--	--
1,1,1-Trichloroethane	71-55-6	Water/Liquid	8260B	0.098	1.0	ug/L	9000 (4)	--	--	--
1,1,2,2-Tetrachloroethane	79-34-5	Water/Liquid	8260B	0.084	1.0	ug/L	2	--	--	--
1,1,2-Trichloroethane	79-00-5	Water/Liquid	8260B	0.15	1.0	ug/L	3	--	--	--
1,1,2-Trichlorotrifluoroethane	76-13-1	Water/Liquid	8260B	0.10	1.0	ug/L	200000	--	--	--
1,1-Dichloroethane	75-34-3	Water/Liquid	8260B	0.094	1.0	ug/L	100 (7)	--	--	--
1,1-Dichloroethene	75-35-4	Water/Liquid	8260B	0.10	1.0	ug/L	200	--	--	--
1,1-Dichloropropene	563-58-6	Water/Liquid	8260B	0.099	1.0	ug/L	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	Water/Liquid	8260B	0.40	5.0	ug/L	--	--	--	--
1,2,3-Trichloropropane	96-18-4	Water/Liquid	8260B	0.13	2.5	ug/L	40	--	--	--
1,2,4-Trichlorobenzene	120-82-1	Water/Liquid	8260B	0.52	5.0	ug/L	--	--	--	--
1,2,4-Trimethylbenzene	95-63-6	Water/Liquid	8260B	0.052	1.0	ug/L	--	--	--	--
1,2-Dibromo-3-chloropropane	96-12-8	Water/Liquid	8260B	1.2	5.0	ug/L	--	--	--	--
1,2-Dibromoethane (EDB)	106-93-4	Water/Liquid	8260B	0.10	2.5	ug/L	0.004	--	--	--
1,2-Dichlorobenzene	95-50-1	Water/Liquid	8260B	0.12	1.0	ug/L	600	--	--	--
1,2-Dichloroethane	107-06-2	Water/Liquid	8260B	0.084	1.0	ug/L	4	--	--	--
1,2-Dichloropropane	78-87-5	Water/Liquid	8260B	0.13	1.0	ug/L	5	--	--	--
1,3,5-Trimethylbenzene	108-67-8	Water/Liquid	8260B	0.066	1.0	ug/L	100 (4) (6)	--	--	--
1,3-Dichlorobenzene	541-73-1	Water/Liquid	8260B	0.094	1.0	ug/L	--	--	--	--
1,3-Dichloropropane	142-28-9	Water/Liquid	8260B	0.074	1.0	ug/L	--	--	--	--
1,4-Dichlorobenzene	106-46-7	Water/Liquid	8260B	0.053	1.0	ug/L	10	--	--	--
2,2-Dichloropropane	594-20-7	Water/Liquid	8260B	0.23	5.0	ug/L	--	--	--	--
2-Butanone	78-93-3	Water/Liquid	8260B	0.58	20	ug/L	4000	--	--	--
2-Chlorotoluene	95-49-8	Water/Liquid	8260B	0.077	1.0	ug/L	--	--	--	--
4-Chlorotoluene	106-43-4	Water/Liquid	8260B	0.059	1.0	ug/L	--	--	--	--
Acetone	67-64-1	Water/Liquid	8260B	0.69	20	ug/L	700	--	--	--
Allyl chloride	107-05-1	Water/Liquid	8260B	0.28	5.0	ug/L	30	--	--	--
Benzene	71-43-2	Water/Liquid	8260B	0.047	1.0	ug/L	2 (4)	--	--	--
Bromobenzene	108-86-1	Water/Liquid	8260B	0.084	1.0	ug/L	--	--	--	--
Bromochloromethane	74-97-5	Water/Liquid	8260B	0.075	1.0	ug/L	--	--	--	--
Bromodichloromethane	75-27-4	Water/Liquid	8260B	0.13	1.0	ug/L	8	--	--	--
Bromoform	75-25-2	Water/Liquid	8260B	0.074	5.0	ug/L	40	--	--	--
Bromomethane	74-83-9	Water/Liquid	8260B	0.26	5.0	ug/L	10	--	--	--
Carbon tetrachloride	56-23-5	Water/Liquid	8260B	0.074	1.0	ug/L	3	--	--	--
Chlorobenzene	108-90-7	Water/Liquid	8260B	0.025	1.0	ug/L	100	--	--	--
Chloroethane	75-00-3	Water/Liquid	8260B	0.26	2.5	ug/L	--	--	--	--
Chloroform	67-66-3	Water/Liquid	8260B	0.098	1.0	ug/L	30 (4) (6)	--	--	--
Chloromethane	74-87-3	Water/Liquid	8260B	0.098	2.5	ug/L	--	--	--	--
cis-1,2-Dichloroethene	156-59-2	Water/Liquid	8260B	0.12	1.0	ug/L	50 (4)	--	--	--
cis-1,3-Dichloropropene	10061-01-5	Water/Liquid	8260B	0.11	1.0	ug/L	--	--	--	--
Dibromochloromethane	124-48-1	Water/Liquid	8260B	0.084	2.5	ug/L	10	--	--	--
Dibromomethane	74-95-3	Water/Liquid	8260B	0.14	2.5	ug/L	--	--	--	--
Dichlorodifluoromethane	75-71-8	Water/Liquid	8260B	0.39	5.0	ug/L	700 (4)	--	--	--
Dichlorofluoromethane	75-43-4	Water/Liquid	8260B	0.070	1.0	ug/L	--	--	--	--
Ethyl ether	60-29-7	Water/Liquid	8260B	0.10	5.0	ug/L	1000	--	--	--
Ethylbenzene	100-41-4	Water/Liquid	8260B	0.055	1.0	ug/L	700	--	--	--
Hexachlorobutadiene	87-68-3	Water/Liquid	8260B	0.58	10	ug/L	1	--	--	--
Isopropylbenzene	98-82-8	Water/Liquid	8260B	0.068	1.0	ug/L	300	--	--	--
m,p-Xylene	108-38-3 106-42-3	Water/Liquid	8260B	0.14	2.0	ug/L	10000 M	--	--	--
Methyl isobutyl ketone	108-10-1	Water/Liquid	8260B	0.13	5.0	ug/L	300	--	--	--
Methyl tert-butyl ether	1634-04-4	Water/Liquid	8260B	0.079	1.0	ug/L	--	--	--	--

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [a]	Minnesota Tier SLV [a]	Minnesota SRV [b]	Minnesota Tier II Industrial SRV [b]
Methylene chloride	75-09-2	Water/Liquid	8260B	0.29	5.0	ug/L	5 (3)	--	--	--
Naphthalene	91-20-3	Water/Liquid	8260B	0.38	5.0	ug/L	300	--	--	--
n-Butylbenzene	104-51-8	Water/Liquid	8260B	0.094	2.5	ug/L	--	--	--	--
n-Propylbenzene	103-65-1	Water/Liquid	8260B	0.079	1.0	ug/L	--	--	--	--
o-Xylene	95-47-6	Water/Liquid	8260B	0.074	1.0	ug/L	10000 M	--	--	--
p-Isopropyltoluene	99-87-6	Water/Liquid	8260B	0.087	2.5	ug/L	--	--	--	--
sec-Butylbenzene	135-98-8	Water/Liquid	8260B	0.030	1.0	ug/L	--	--	--	--
Styrene	100-42-5	Water/Liquid	8260B	0.072	1.0	ug/L	--	--	--	--
tert-Butylbenzene	98-06-6	Water/Liquid	8260B	0.046	1.0	ug/L	--	--	--	--
Tetrachloroethene	127-18-4	Water/Liquid	8260B	0.10	1.0	ug/L	5 (3)	--	--	--
Tetrahydrofuran	109-99-9	Water/Liquid	8260B	0.76	20	ug/L	--	--	--	--
Toluene	108-88-3	Water/Liquid	8260B	0.036	1.0	ug/L	1000	--	--	--
trans-1,2-Dichloroethene	156-60-5	Water/Liquid	8260B	0.14	1.0	ug/L	100	--	--	--
trans-1,3-Dichloropropene	10061-02-6	Water/Liquid	8260B	0.082	1.0	ug/L	--	--	--	--
Trichloroethene	79-01-6	Water/Liquid	8260B	0.097	1.0	ug/L	5 (3)	--	--	--
Trichlorofluoromethane	75-69-4	Water/Liquid	8260B	0.17	1.0	ug/L	2000	--	--	--
Vinyl chloride	75-01-4	Water/Liquid	8260B	0.10	1.0	ug/L	0.2 (4)	--	--	--
SemiVolatile Organics										
1,2,4-Trichlorobenzene	120-82-1	Soil/Solid	8270C	0.020	0.33	mg/kg	--	0.31	200	985
1,2-Dichlorobenzene	95-50-1	Soil/Solid	8270C	0.012	0.33	mg/kg	--	8.1	26	75
1,2-Diphenylhydrazine as Azobenzene	103-33-3	Soil/Solid	8270C	0.039	0.33	mg/kg	--	--	--	--
1,3-Dichlorobenzene	541-73-1	Soil/Solid	8270C	0.014	0.33	mg/kg	--	4.2	26	200
1,4-Dichlorobenzene	106-46-7	Soil/Solid	8270C	0.013	0.33	mg/kg	--	0.13	30	50
2,3,4,6-Tetrachlorophenol	58-90-2	Soil/Solid	8270C	0.072	0.67	mg/kg	--	--	636	3700
2,4,5-Trichlorophenol	95-95-4	Soil/Solid	8270C	0.039	0.67	mg/kg	--	--	1920	10600
2,4,6-Trichlorophenol	88-06-2	Soil/Solid	8270C	0.081	0.67	mg/kg	--	0.21	595	1060
2,4-Dichlorophenol	120-83-2	Soil/Solid	8270C	0.046	0.67	mg/kg	--	0.076	46	230
2,4-Dimethylphenol	105-67-9	Soil/Solid	8270C	0.079	0.67	mg/kg	--	0.34	390	1925
2,4-Dinitrophenol	51-28-5	Soil/Solid	8270C	0.064	0.67	mg/kg	--	0.014	--	--
2,4-Dinitrotoluene	121-14-2	Soil/Solid	8270C	0.044	0.33	mg/kg	--	0.001	50	355
2,6-Dichlorophenol	87-65-0	Soil/Solid	8270C	0.042	0.67	mg/kg	--	--	--	--
2,6-Dinitrotoluene	606-20-2	Soil/Solid	8270C	0.040	0.33	mg/kg	--	0.001	25	175
2-Chloronaphthalene	91-58-7	Soil/Solid	8270C	0.018	0.33	mg/kg	--	--	--	--
2-Chlorophenol	95-57-8	Soil/Solid	8270C	0.029	0.67	mg/kg	--	0.26	--	--
2-Methylnaphthalene	91-57-6	Soil/Solid	8270C	0.021	0.33	mg/kg	--	--	100	369
2-Methylphenol	95-48-7	Soil/Solid	8270C	0.019	0.67	mg/kg	--	0.064	75	352
2-Nitroaniline	88-74-4	Soil/Solid	8270C	0.041	0.33	mg/kg	--	--	--	--
2-Nitrophenol	88-75-5	Soil/Solid	8270C	0.040	0.67	mg/kg	--	0.60	--	--
3,3'-Dichlorobenzidine	91-94-1	Soil/Solid	8270C	0.21	1.6	mg/kg	--	0.36	25	50
3-Nitroaniline	99-09-2	Soil/Solid	8270C	0.041	0.33	mg/kg	--	--	--	--
4,6-Dinitro-2-methylphenol	534-52-1	Soil/Solid	8270C	0.097	0.67	mg/kg	--	--	--	--
4-Bromophenyl phenyl ether	101-55-3	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	--	--
4-Chloro-3-methylphenol	59-50-7	Soil/Solid	8270C	0.075	0.67	mg/kg	--	--	--	--
4-Chloroaniline	106-47-8	Soil/Solid	8270C	0.022	0.67	mg/kg	--	--	--	--
4-Chlorophenyl phenyl ether	7005-72-3	Soil/Solid	8270C	0.024	0.33	mg/kg	--	--	--	--
4-Methylphenol	106-44-5	Soil/Solid	8270C	0.017	0.67	mg/kg	--	0.033	10	59
4-Nitroaniline	100-01-6	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	--	--
4-Nitrophenol	100-02-7	Soil/Solid	8270C	0.081	0.67	mg/kg	--	--	--	--
Acenaphthene	83-32-9	Soil/Solid	8270C	0.020	0.33	mg/kg	--	50	1200	5260
Acenaphthylene	208-96-8	Soil/Solid	8270C	0.031	0.33	mg/kg	--	--	--	--
Aniline	62-53-3	Soil/Solid	8270C	0.034	0.67	mg/kg	--	--	--	--
Anthracene	120-12-7	Soil/Solid	8270C	0.043	0.33	mg/kg	--	942	7880	45400
Benzidine	92-87-5	Soil/Solid	8270C	0.71	2.5	mg/kg	--	--	--	--
Benzo (a) anthracene	56-55-3	Soil/Solid	8270C	0.045	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (a) pyrene	50-32-8	Soil/Solid	8270C	0.049	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (b) fluoranthene	205-99-2	Soil/Solid	8270C	0.048	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (g,h,i) perylene	191-24-2	Soil/Solid	8270C	0.050	0.33	mg/kg	--	--	--	--
Benzo (k) fluoranthene	207-08-9	Soil/Solid	8270C	0.053	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzoic acid	65-85-0	Soil/Solid	8270C	0.036	0.33	mg/kg	--	30	50000	100000
Benzyl alcohol	100-51-6	Soil/Solid	8270C	0.11	0.67	mg/kg	--	--	8700	56000
Bis(2-chloroethoxy)methane	111-91-1	Soil/Solid	8270C	0.021	0.33	mg/kg	--	--	--	--
Bis(2-chloroethyl)ether	111-44-4	Soil/Solid	8270C	0.013	0.33	mg/kg	--	0.001	2.5	5
Bis(2-chloroisopropyl)ether	39638-32-9	Soil/Solid	8270C	0.017	0.33	mg/kg	--	--	--	--
Bis(2-ethylhexyl)phthalate	117-81-7	Soil/Solid	8270C	0.046	0.33	mg/kg	--	40	570	2100
Butyl benzyl phthalate	85-68-7	Soil/Solid	8270C	0.047	0.33	mg/kg	--	28	580	3700
Carbazole	86-74-8	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	700	1310
Chrysene	218-01-9	Soil/Solid	8270C	0.049	0.33	mg/kg	--	10.2 T	2 T	3 T
Dibenz (a,h) anthracene	53-70-3	Soil/Solid	8270C	0.053	0.33	mg/kg	--	10.2 T	2 T	3 T
Dibenzofuran	132-64-9	Soil/Solid	8270C	0.022	0.33	mg/kg	--	--	104	810

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits	Minnesota Tier SLV *	Minnesota SRV *	Minnesota Tier II Industrial SRV *
Diethyl phthalate	84-66-2	Soil/Solid	8270C	0.045	0.33	mg/kg	--	18	--	--
Dimethyl phthalate	131-11-3	Soil/Solid	8270C	0.043	0.33	mg/kg	--	172	--	--
Di-n-butyl phthalate	84-74-2	Soil/Solid	8270C	0.054	0.33	mg/kg	--	23	2440	16300
Di-n-octyl phthalate	117-84-0	Soil/Solid	8270C	0.056	0.33	mg/kg	--	--	520	3700
Fluoranthene	206-44-0	Soil/Solid	8270C	0.047	0.33	mg/kg	--	295	1080	6800
Fluorene	86-73-7	Soil/Solid	8270C	0.011	0.33	mg/kg	--	47	850	4120
Hexachlorobenzene	118-74-1	Soil/Solid	8270C	0.041	0.33	mg/kg	--	0.32	5	9
Hexachlorobutadiene	87-68-3	Soil/Solid	8270C	0.035	0.33	mg/kg	--	25	6	37
Hexachlorocyclopentadiene	77-47-4	Soil/Solid	8270C	0.030	0.33	mg/kg	--	4.4	2	6
Hexachloroethane	67-72-1	Soil/Solid	8270C	0.018	0.33	mg/kg	--	0.050	--	--
Indeno (1,2,3-cd) pyrene	193-39-5	Soil/Solid	8270C	0.042	0.33	mg/kg	--	10.2 T	2 T	3 T
Isophorone	78-59-1	Soil/Solid	8270C	0.018	0.33	mg/kg	--	0.16	--	--
Naphthalene	91-20-3	Soil/Solid	8270C	0.015	0.33	mg/kg	--	7.5	10	28
Nitrobenzene	98-95-3	Soil/Solid	8270C	0.014	0.33	mg/kg	--	--	--	--
N-Nitrosodimethylamine	62-75-9	Soil/Solid	8270C	0.028	0.33	mg/kg	--	0.82	--	--
N-Nitrosodi-n-propylamine	621-64-7	Soil/Solid	8270C	0.014	0.33	mg/kg	--	--	0.7	1.2
N-Nitrosodiphenylamine ***	86-30-6	Soil/Solid	8270C	0.045	0.33	mg/kg	--	0.88	1950	3720
Diphenylamine ***	122-39-4	Soil/Solid	8270C	--	--	--	--	--	--	--
Pentachlorophenol	87-86-5	Soil/Solid	8270C	0.081	0.67	mg/kg	--	0.034	80	120
Phenanthrene	85-01-8	Soil/Solid	8270C	0.026	0.33	mg/kg	--	--	--	--
Phenol	108-95-2	Soil/Solid	8270C	0.027	0.67	mg/kg	--	7.8	1500	20203
Pyrene	129-00-0	Soil/Solid	8270C	0.046	0.33	mg/kg	--	272	890	5800
2,4-Dinitrotoluene (DNT)	121-14-2	Soil/Solid	8270C	0.063	3.0	mg/kg	--	0.001	50	355
2,6-Dinitrotoluene (DNT)	606-20-2	Soil/Solid	8270C	0.13	3.0	mg/kg	--	0.001	25	175
SemiVolatile Organics										
1,2,4-Trichlorobenzene	120-82-1	Water/Liquid	8270C	0.28	10	ug/L	--	--	--	--
1,2-Dichlorobenzene	95-50-1	Water/Liquid	8270C	0.21	10	ug/L	600	--	--	--
1,2-Diphenylhydrazine as Azobenzene	103-33-3	Water/Liquid	8270C	0.20	10	ug/L	--	--	--	--
1,3-Dichlorobenzene	541-73-1	Water/Liquid	8270C	0.21	10	ug/L	--	--	--	--
1,4-Dichlorobenzene	106-46-7	Water/Liquid	8270C	0.18	10	ug/L	10	--	--	--
2,3,4,6-Tetrachlorophenol	58-90-2	Water/Liquid	8270C	1.0	10	ug/L	--	--	--	--
2,4,5-Trichlorophenol	95-95-4	Water/Liquid	8270C	0.85	10	ug/L	--	--	--	--
2,4,6-Trichlorophenol	88-06-2	Water/Liquid	8270C	0.89	10	ug/L	30	--	--	--
2,4-Dichlorophenol	120-83-2	Water/Liquid	8270C	0.78	10	ug/L	20	--	--	--
2,4-Dimethylphenol	105-67-9	Water/Liquid	8270C	0.78	10	ug/L	100	--	--	--
2,4-Dinitrophenol	51-28-5	Water/Liquid	8270C	0.50	10	ug/L	10	--	--	--
2,4-Dinitrotoluene	121-14-2	Water/Liquid	8270C	0.49	10	ug/L	0.5 (2)	--	--	--
2,6-Dichlorophenol	87-65-0	Water/Liquid	8270C	0.78	10	ug/L	--	--	--	--
2,6-Dinitrotoluene	606-20-2	Water/Liquid	8270C	0.39	10	ug/L	0.5 (2)	--	--	--
2-Chloronaphthalene	91-58-7	Water/Liquid	8270C	0.20	10	ug/L	--	--	--	--
2-Chlorophenol	95-57-8	Water/Liquid	8270C	0.66	10	ug/L	30	--	--	--
2-Methylnaphthalene	91-57-6	Water/Liquid	8270C	0.32	10	ug/L	--	--	--	--
2-Methylphenol	95-48-7	Water/Liquid	8270C	0.77	10	ug/L	30	--	--	--
2-Nitroaniline	88-74-4	Water/Liquid	8270C	0.92	10	ug/L	--	--	--	--
2-Nitrophenol	88-75-5	Water/Liquid	8270C	1.0	10	ug/L	--	--	--	--
3,3'-Dichlorobenzidine	91-94-1	Water/Liquid	8270C	7.1	25	ug/L	0.8	--	--	--
3-Nitroaniline	99-09-2	Water/Liquid	8270C	0.95	10	ug/L	--	--	--	--
4,6-Dinitro-2-methylphenol	534-52-1	Water/Liquid	8270C	0.90	10	ug/L	--	--	--	--
4-Bromophenyl phenyl ether	101-55-3	Water/Liquid	8270C	0.19	10	ug/L	--	--	--	--
4-Chloro-3-methylphenol	59-50-7	Water/Liquid	8270C	0.79	10	ug/L	--	--	--	--
4-Chloroaniline	106-47-8	Water/Liquid	8270C	1.0	10	ug/L	--	--	--	--
4-Chlorophenol	106-48-9	Water/Liquid	8270C	NA	NA	ug/L	--	--	--	--
4-Chlorophenyl phenyl ether	7005-72-3	Water/Liquid	8270C	0.15	10	ug/L	--	--	--	--
4-Methylphenol	106-44-5	Water/Liquid	8270C	0.82	10	ug/L	3	--	--	--
4-Nitroaniline	100-01-6	Water/Liquid	8270C	0.63	10	ug/L	--	--	--	--
4-Nitrophenol	100-02-7	Water/Liquid	8270C	1.2	10	ug/L	--	--	--	--
Acenaphthene	83-32-9	Water/Liquid	8270C	0.15	10	ug/L	400	--	--	--
Acenaphthylene	208-96-8	Water/Liquid	8270C	0.17	10	ug/L	--	--	--	--
Aniline	62-53-3	Water/Liquid	8270C	0.97	10	ug/L	--	--	--	--
Anthracene	120-12-7	Water/Liquid	8270C	0.19	10	ug/L	2000	--	--	--
Benzidine	92-87-5	Water/Liquid	8270C	23	100	ug/L	--	--	--	--
Benzo (a) anthracene	56-55-3	Water/Liquid	8270C	0.18	10	ug/L	--	--	--	--
Benzo (a) pyrene	50-32-8	Water/Liquid	8270C	0.22	10	ug/L	--	--	--	--
Benzo (b) fluoranthene	205-99-2	Water/Liquid	8270C	0.18	10	ug/L	--	--	--	--
Benzo (g,h,i) perylene	191-24-2	Water/Liquid	8270C	0.24	10	ug/L	--	--	--	--
Benzo (k) fluoranthene	207-08-9	Water/Liquid	8270C	0.21	10	ug/L	--	--	--	--
Benzoic acid	65-85-0	Water/Liquid	8270C	0.75	10	ug/L	30000	--	--	--
Benzyl alcohol	100-51-6	Water/Liquid	8270C	0.66	10	ug/L	--	--	--	--
Bis(2-chloroethoxy)methane	111-91-1	Water/Liquid	8270C	0.21	10	ug/L	--	--	--	--

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [3]	Minnesota Tier SLV [4]	Minnesota SRV [5]	Minnesota Tier II Industrial SRV [6]
Bis(2-chloroethyl)ether	111-44-4	Water/Liquid	8270C	0.21	10	ug/L	0.3	--	--	--
Bis(2-chloroisopropyl)ether	39638-32-9	Water/Liquid	8270C	0.14	10	ug/L	--	--	--	--
Bis(2-ethylhexyl)phthalate	117-81-7	Water/Liquid	8270C	0.45	10	ug/L	20 (1)	--	--	--
Butyl benzyl phthalate	85-68-7	Water/Liquid	8270C	0.33	10	ug/L	100	--	--	--
Carbazole	86-74-8	Water/Liquid	8270C	0.24	10	ug/L	--	--	--	--
Chrysene	218-01-9	Water/Liquid	8270C	0.15	10	ug/L	--	--	--	--
Dibenz (a,h) anthracene	53-70-3	Water/Liquid	8270C	0.25	10	ug/L	--	--	--	--
Dibenzofuran	132-64-9	Water/Liquid	8270C	0.27	10	ug/L	--	--	--	--
Diethyl phthalate	84-66-2	Water/Liquid	8270C	0.32	10	ug/L	6000	--	--	--
Dimethyl phthalate	131-11-3	Water/Liquid	8270C	0.26	10	ug/L	70000	--	--	--
Di-n-butyl phthalate	84-74-2	Water/Liquid	8270C	0.33	10	ug/L	700	--	--	--
Di-n-octyl phthalate	117-84-0	Water/Liquid	8270C	0.42	10	ug/L	--	--	--	--
Fluoranthene	206-44-0	Water/Liquid	8270C	0.23	10	ug/L	300	--	--	--
Fluorene	86-73-7	Water/Liquid	8270C	0.16	10	ug/L	300	--	--	--
Hexachlorobenzene	118-74-1	Water/Liquid	8270C	0.15	10	ug/L	0.2	--	--	--
Hexachlorobutadiene	87-68-3	Water/Liquid	8270C	0.34	10	ug/L	1	--	--	--
Hexachlorocyclopentadiene	77-47-4	Water/Liquid	8270C	0.22	10	ug/L	--	--	--	--
Hexachloroethane	67-72-1	Water/Liquid	8270C	0.30	10	ug/L	--	--	--	--
Indeno (1,2,3-cd) pyrene	193-39-5	Water/Liquid	8270C	0.19	10	ug/L	--	--	--	--
Isophorone	78-59-1	Water/Liquid	8270C	0.23	10	ug/L	100	--	--	--
Naphthalene	91-20-3	Water/Liquid	8270C	0.19	10	ug/L	300	--	--	--
Nitrobenzene	98-95-3	Water/Liquid	8270C	0.26	10	ug/L	--	--	--	--
N-Nitrosodimethylamine	62-75-9	Water/Liquid	8270C	0.30	10	ug/L	--	--	--	--
N-Nitrosodi-n-propylamine	621-64-7	Water/Liquid	8270C	0.28	10	ug/L	--	--	--	--
N-Nitrosodiphenylamine ***	86-30-6	Water/Liquid	8270C	0.27	10	ug/L	70	--	--	--
Diphenylamine ***	122-39-4	Water/Liquid	8270C	--	--	--	--	--	--	--
Pentachlorophenol	87-86-5	Water/Liquid	8270C	0.99	10	ug/L	1 (3)	--	--	--
Phenanthrene	85-01-8	Water/Liquid	8270C	0.13	10	ug/L	--	--	--	--
Phenol	108-95-2	Water/Liquid	8270C	0.59	10	ug/L	4000	--	--	--
Pyrene	129-00-0	Water/Liquid	8270C	0.24	10	ug/L	200	--	--	--

Notes:
M - the values with this notation indicate the limit is for all combined isomers of this compound
T - the values with this notation represent the limit for the total carcinogenic PAHs as BaP
C - Mercury as mercuric chloride
(TA) - Legend Technical Services, Inc. will subcontract this analysis to Test America, West Sacramento, California.
(Braun) - Legend Technical Services, Inc. will subcontract this analysis to Braun Intertec, Minneapolis, MN.
(1) Not a HRL but a Health Based Value (HBV)
(2) (SRL)-Specific Risk Level (water concentration which corresponds to a riskof 1E-5.
(3) Not a HRL but an EPA Maximum Contaminant Level (MCL).
(4) Value is representative of the lowest exposure duration published in the 2008 Health Risk Limits.
(5) Value represents the criteria for Chromium, hexavalent.
(6) Set at short-term HRL.
(7) Not a HRL, but a Risk Assessment Advice (RAA).
(8) Value represents the criteria for Chromium, Trivalent.
[3] - Minnesota Department of Health, Health Risk Limit (HRL) unless noted otherwise.
[4] - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Soil Leaching Value (SLV)
[5] - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Soil Reference Value (SRV)
[6] - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Tier II Industrial SRV.

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September 18, 2009

Ms. Kelly Neppl
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0903903
RE: 23/19-0B05.07

Enclosed are the results of analyses for samples received by the laboratory on 09/02/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of this report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

Terri Olson
Client Manager II
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Barb Rutten
Report Reviewer
brutten@legend-group.com

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903903
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/18/09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC5-SS9-0.5'	0903903-01	Soil	09/01/09 08:50	09/02/09 11:30
FB-1	0903903-02	Water	09/01/09 10:30	09/02/09 11:30
SOC5-TT29-5'	0903903-03	Soil	09/01/09 11:30	09/02/09 11:30

Shipping Container Information

Default Cooler Temperature (°C): 9.3

Received on ice: Yes
Received on melt water: No
Custody seals: No
Temperature blank was present
Ambient: No
Received on ice pack: No
Acceptable (IH/ISO only): No

Case Narrative:

MN Certification does not apply to carbazole in the 8270C analysis.

Recovery for the 8270 SVOC compound pentachlorophenol exceeded laboratory limits in the batch B9I0810 MS/MSD. All spike compounds and surrogates were within limits in the batch method blank and LCS. The MS/MSD source sample was not associated with this work order.

Di-n-butyl phthalate was detected in the 8270 soil batch B9I0810 method blank between the MDL and RL. Samples where the di-n-butyl phthalate result was equal to or less than five times the blank concentration are flagged.

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Barr Engineering Co.	Project:	23/19-0B05.07			
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300		Work Order #:	0903903
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/18/09

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS9-0.5' (0903903-01) Soil Sampled: 09/01/09 08:50 Received: 09/02/09 11:30										
Antimony	<0.59	0.59	0.0065	mg/kg dry	1	B9I1012	09/10/09	09/10/09	EPA 6010B	
Arsenic	**6.9**	0.59	0.12	mg/kg dry	1	"	"	"	"	
Beryllium	<0.29	0.29	0.013	mg/kg dry	1	"	"	"	"	
Cadmium	<0.29	0.29	0.029	mg/kg dry	1	"	"	"	"	
Chromium	**15**	0.59	0.014	mg/kg dry	1	"	"	"	"	
Copper	**11**	1.2	0.082	mg/kg dry	1	"	"	"	"	
Lead	**11**	1.2	0.040	mg/kg dry	1	"	"	"	"	
Mercury	<0.12	0.12	0.0021	mg/kg dry	1	B9I0315	09/03/09	09/04/09	EPA 7471A	
Nickel	**14**	0.59	0.016	mg/kg dry	1	B9I1012	09/10/09	09/10/09	EPA 6010B	
Selenium	<1.2	1.2	0.13	mg/kg dry	1	"	"	"	"	
Silver	<0.29	0.29	0.011	mg/kg dry	1	"	"	"	"	
Thallium	<2.4	2.4	0.15	mg/kg dry	1	"	"	"	"	
Zinc	**36**	1.2	0.26	mg/kg dry	1	"	"	"	"	
FB-1 (0903903-02) Water Sampled: 09/01/09 10:30 Received: 09/02/09 11:30										
Antimony	**0.23**	0.50	0.046	ug/L	1	B9I1604	09/16/09	09/17/09	EPA 6020	J
Arsenic	<10	10	2.0	ug/L	1	B9I1407	09/14/09	09/14/09	EPA 6010B	
Beryllium	<0.027	0.50	0.027	ug/L	1	B9I1604	09/16/09	09/17/09	EPA 6020	
Cadmium	<1.0	1.0	0.099	ug/L	1	B9I1407	09/14/09	09/14/09	EPA 6010B	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	
Copper	<20	20	1.4	ug/L	1	"	"	"	"	
Lead	<3.0	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B9I0811	09/08/09	09/08/09	EPA 7470A	
Nickel	<5.0	5.0	0.28	ug/L	1	B9I1407	09/14/09	09/14/09	EPA 6010B	
Selenium	<20	20	2.2	ug/L	1	"	"	"	"	
Silver	<5.0	5.0	0.18	ug/L	1	"	"	"	"	
Thallium	<0.0081	0.50	0.0081	ug/L	1	B9I1604	09/16/09	09/17/09	EPA 6020	
Zinc	<20	20	4.4	ug/L	1	B9I1407	09/14/09	09/14/09	EPA 6010B	
SOC5-TT29-5' (0903903-03) Soil Sampled: 09/01/09 11:30 Received: 09/02/09 11:30										
Antimony	<0.57	0.57	0.0063	mg/kg dry	1	B9I1012	09/10/09	09/10/09	EPA 6010B	
Arsenic	**6.7**	0.57	0.11	mg/kg dry	1	"	"	"	"	
Beryllium	<0.29	0.29	0.013	mg/kg dry	1	"	"	"	"	
Cadmium	<0.29	0.29	0.029	mg/kg dry	1	"	"	"	"	
Chromium	**16**	0.57	0.014	mg/kg dry	1	"	"	"	"	
Copper	**9.5**	1.1	0.080	mg/kg dry	1	"	"	"	"	
Lead	**8.9**	1.1	0.039	mg/kg dry	1	"	"	"	"	
Mercury	<0.11	0.11	0.0021	mg/kg dry	1	B9I0315	09/03/09	09/04/09	EPA 7471A	
Nickel	**13**	0.57	0.016	mg/kg dry	1	B9I1012	09/10/09	09/10/09	EPA 6010B	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903903
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/18/09

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-TT29-5' (0903903-03) Soil Sampled: 09/01/09 11:30 Received: 09/02/09 11:30										
Selenium	<1.1	1.1	0.13	mg/kg dry	1	B9I1012	09/10/09	09/10/09	EPA 6010B	
Silver	<0.29	0.29	0.010	mg/kg dry	1	"	"	"	"	
Thallium	<2.3	2.3	0.15	mg/kg dry	1	"	"	"	"	
Zinc	**33**	1.1	0.25	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903903
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/18/09

PERCENT SOLIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS9-0.5' (0903903-01) Soil Sampled: 09/01/09 08:50 Received: 09/02/09 11:30										
% Solids	**85**			%	1	B9I0806	09/08/09	09/08/09	% calculation	
SOC5-TT29-5' (0903903-03) Soil Sampled: 09/01/09 11:30 Received: 09/02/09 11:30										
% Solids	**87**			%	1	B9I0806	09/08/09	09/08/09	% calculation	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903903
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/18/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS9-0.5' (0903903-01) Soil Sampled: 09/01/09 08:50 Received: 09/02/09 11:30										
1,2,4-Trichlorobenzene	<0.032	0.39	0.032	mg/kg dry	1	B9I0810	09/08/09	09/09/09	EPA 8270C	
1,2-Dichlorobenzene	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.028	0.39	0.028	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.045	0.79	0.045	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.028	0.79	0.028	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.041	0.79	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.041	0.79	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.79	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.068	0.79	0.068	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.051	0.79	0.051	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.39	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.39	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.045	0.79	0.045	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.041	0.79	0.041	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.042	0.79	0.042	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.46	1.9	0.46	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.087	0.79	0.087	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.39	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.047	0.79	0.047	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.79	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.032	0.79	0.032	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.79	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
Aniline	<0.11	0.79	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
Benzidine	<0.85	2.9	0.85	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.032	0.39	0.032	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.032	0.39	0.032	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.040	0.39	0.040	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.035	0.39	0.035	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903903
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/18/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS9-0.5' (0903903-01) Soil Sampled: 09/01/09 08:50 Received: 09/02/09 11:30										
Benzo (k) fluoranthene	<0.036	0.39	0.036	mg/kg dry	1	B9I0810	09/08/09	09/09/09	EPA 8270C	
Benzoic acid	<0.068	0.39	0.068	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.79	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.028	0.39	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.026	0.39	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
Carbazole	<0.026	0.39	0.026	mg/kg dry	1	"	"	"	"	
Chrysene	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.040	0.39	0.040	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.022	0.39	0.022	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.018	0.39	0.018	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	**0.15**	0.39	0.044	mg/kg dry	1	"	"	"	"	B, J
Di-n-octyl phthalate	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.028	0.39	0.028	mg/kg dry	1	"	"	"	"	
Fluorene	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.019	0.39	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.048	0.39	0.048	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.038	0.39	0.038	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.39	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.034	0.39	0.034	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.035	0.39	0.035	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.038	0.39	0.038	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.79	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.022	0.39	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.067	0.79	0.067	mg/kg dry	1	"	"	"	"	
Pyrene	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*53.1*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*76.3*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*57.1*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*64.2*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*67.1*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*91.2*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903903
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/18/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
FB-1 (0903903-02) Water Sampled: 09/01/09 10:30 Received: 09/02/09 11:30										
1,2,4-Trichlorobenzene	<0.18	9.3	0.18	ug/L	1	B9I0803	09/08/09	09/08/09	EPA 8270C	
1,2-Dichlorobenzene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.56	9.3	0.56	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	9.3	0.74	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<1.5	9.3	1.5	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<0.93	9.3	0.93	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<0.31	9.3	0.31	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
2-Chlorophenol	<0.42	9.3	0.42	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<0.61	9.3	0.61	ug/L	1	"	"	"	"	
2-Methylphenol	<0.58	9.3	0.58	ug/L	1	"	"	"	"	
2-Nitroaniline	<0.67	9.3	0.67	ug/L	1	"	"	"	"	
2-Nitrophenol	<0.83	9.3	0.83	ug/L	1	"	"	"	"	
3,3´-Dichlorobenzidine	<6.8	23	6.8	ug/L	1	"	"	"	"	
3-Nitroaniline	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.60	9.3	0.60	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.51	9.3	0.51	ug/L	1	"	"	"	"	
4-Chloroaniline	<2.1	9.3	2.1	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
4-Methylphenol	<0.73	9.3	0.73	ug/L	1	"	"	"	"	
4-Nitroaniline	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
4-Nitrophenol	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Acenaphthene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
Acenaphthylene	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
Aniline	<2.0	9.3	2.0	ug/L	1	"	"	"	"	
Anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzidine	<17	93	17	ug/L	1	"	"	"	"	
Benzo (a) anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzo (a) pyrene	<0.27	9.3	0.27	ug/L	1	"	"	"	"	
Benzo (b) fluoranthene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07			
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300		Work Order #:	0903903
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/18/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
FB-1 (0903903-02) Water Sampled: 09/01/09 10:30 Received: 09/02/09 11:30										
Benzo (k) fluoranthene	<0.29	9.3	0.29	ug/L	1	B9I0803	09/08/09	09/08/09	EPA 8270C	
Benzoic acid	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Benzyl alcohol	<0.50	9.3	0.50	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.17	9.3	0.17	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.18	9.3	0.18	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.40	9.3	0.40	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Carbazole	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Chrysene	<0.25	9.3	0.25	ug/L	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dibenzofuran	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Diethyl phthalate	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dimethyl phthalate	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<0.35	9.3	0.35	ug/L	1	"	"	"	"	
Fluoranthene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Fluorene	<0.37	9.3	0.37	ug/L	1	"	"	"	"	
Hexachlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Hexachloroethane	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Isophorone	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Naphthalene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Nitrobenzene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<0.88	9.3	0.88	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Pentachlorophenol	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
Phenanthrene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Phenol	<0.53	9.3	0.53	ug/L	1	"	"	"	"	
Pyrene	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*98.1*			*48.5-114 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*69.5*			*41.7-98.4 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*56.0*			*30-93.5 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*76.2*			*47.4-97.8 %*		"	"	"	"	
Surrogate: Phenol-d6	*50.2*			*30-91.5 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*67.2*			*30-108 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903903
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/18/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0315 - EPA 7471A											
Blank (B9I0315-BLK1)					Prepared: 09/03/09		Analyzed: 09/04/09				
Mercury	< 0.10	0.10	0.0018	mg/kg wet							
LCS (B9I0315-BS1)					Prepared: 09/03/09		Analyzed: 09/04/09				
Mercury	0.227	0.10	0.0018	mg/kg wet	0.200		114	80-120			
LCS Dup (B9I0315-BSD1)					Prepared: 09/03/09		Analyzed: 09/04/09				
Mercury	0.221	0.10	0.0018	mg/kg wet	0.200		110	80-120	2.68	20	
Matrix Spike (B9I0315-MS1)		**Source: 0903887-01**			Prepared: 09/03/09		Analyzed: 09/04/09				
Mercury	0.274	0.11	0.0020	mg/kg dry	0.225	<0.11	104	75-125			
Matrix Spike Dup (B9I0315-MSD1)		**Source: 0903887-01**			Prepared: 09/03/09		Analyzed: 09/04/09				
Mercury	0.263	0.11	0.0020	mg/kg dry	0.225	<0.11	99.5	75-125	4.18	20	
Batch B9I0811 - EPA 245.1/7470A Digestion											
Blank (B9I0811-BLK1)					Prepared & Analyzed: 09/08/09						
Mercury	< 0.20	0.20	0.018	ug/L							
LCS (B9I0811-BS1)					Prepared & Analyzed: 09/08/09						
Mercury	2.26	0.20	0.018	ug/L	2.00		113	80-120			
LCS Dup (B9I0811-BSD1)					Prepared & Analyzed: 09/08/09						
Mercury	2.16	0.20	0.018	ug/L	2.00		108	80-120	4.52	20	
Matrix Spike (B9I0811-MS1)		**Source: 0903675-01**			Prepared & Analyzed: 09/08/09						
Mercury	2.14	0.20	0.018	ug/L	2.00	<0.20	107	75-125			
Matrix Spike Dup (B9I0811-MSD1)		**Source: 0903675-01**			Prepared & Analyzed: 09/08/09						
Mercury	2.35	0.20	0.018	ug/L	2.00	<0.20	118	75-125	9.35	20	

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Barr Engineering Co.	Project:	23/19-0B05.07			
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300		Work Order #:	0903903
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/18/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1012 - EPA 3050B											
Blank (B9I1012-BLK1)					Prepared & Analyzed: 09/10/09						
Antimony	< 0.50	0.50	0.0055	mg/kg wet							
Arsenic	< 0.50	0.50	0.10	mg/kg wet							
Beryllium	< 0.25	0.25	0.011	mg/kg wet							
Cadmium	< 0.25	0.25	0.025	mg/kg wet							
Chromium	< 0.50	0.50	0.012	mg/kg wet							
Copper	< 1.0	1.0	0.070	mg/kg wet							
Lead	< 1.0	1.0	0.034	mg/kg wet							
Nickel	< 0.50	0.50	0.014	mg/kg wet							
Selenium	< 1.0	1.0	0.11	mg/kg wet							
Silver	< 0.25	0.25	0.0090	mg/kg wet							
Thallium	< 2.0	2.0	0.13	mg/kg wet							
Zinc	< 1.0	1.0	0.22	mg/kg wet							
LCS (B9I1012-BS1)					Prepared & Analyzed: 09/10/09						
Antimony	38.4	0.50	0.0055	mg/kg wet	39.9		96.2	80-120			
Arsenic	40.5	0.50	0.10	mg/kg wet	39.9		101	80-120			
Beryllium	4.16	0.25	0.011	mg/kg wet	3.99		104	80-120			
Cadmium	42.5	0.25	0.025	mg/kg wet	39.9		106	80-120			
Chromium	41.2	0.50	0.012	mg/kg wet	39.9		103	80-120			
Copper	42.5	1.0	0.070	mg/kg wet	39.9		106	80-120			
Lead	42.4	1.0	0.034	mg/kg wet	39.9		106	80-120			
Nickel	41.4	0.50	0.014	mg/kg wet	39.9		104	80-120			
Selenium	39.9	1.0	0.11	mg/kg wet	39.9		100	80-120			
Silver	4.15	0.25	0.0090	mg/kg wet	3.99		104	80-120			
Thallium	40.3	2.0	0.13	mg/kg wet	39.9		101	80-120			
Zinc	44.9	1.0	0.22	mg/kg wet	39.9		113	80-120			
LCS Dup (B9I1012-BSD1)					Prepared & Analyzed: 09/10/09						
Antimony	39.1	0.50	0.0055	mg/kg wet	39.9		98.1	80-120	1.90	20	
Arsenic	40.2	0.50	0.10	mg/kg wet	39.9		101	80-120	0.745	20	
Beryllium	4.10	0.25	0.011	mg/kg wet	3.99		103	80-120	1.54	20	
Cadmium	41.6	0.25	0.025	mg/kg wet	39.9		104	80-120	1.94	20	
Chromium	40.7	0.50	0.012	mg/kg wet	39.9		102	80-120	1.38	20	
Copper	41.8	1.0	0.070	mg/kg wet	39.9		105	80-120	1.76	20	
Lead	41.8	1.0	0.034	mg/kg wet	39.9		105	80-120	1.35	20	
Nickel	40.8	0.50	0.014	mg/kg wet	39.9		102	80-120	1.30	20	
Selenium	39.3	1.0	0.11	mg/kg wet	39.9		98.4	80-120	1.55	20	
Silver	4.12	0.25	0.0090	mg/kg wet	3.99		103	80-120	0.558	20	
Thallium	40.2	2.0	0.13	mg/kg wet	39.9		101	80-120	0.345	20	
Zinc	41.0	1.0	0.22	mg/kg wet	39.9		103	80-120	8.99	20	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903903
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/18/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1012 - EPA 3050B											
Matrix Spike (B9I1012-MS1)		**Source: 0903926-05**			Prepared & Analyzed: 09/10/09						
Antimony	34.6	0.52	0.0057	mg/kg dry	41.6	<0.52	83.3	75-125			
Arsenic	41.3	0.52	0.10	mg/kg dry	41.6	4.11	89.5	75-125			
Beryllium	4.19	0.26	0.011	mg/kg dry	4.16	0.265	94.5	75-125			
Cadmium	36.2	0.26	0.026	mg/kg dry	41.6	<0.26	86.9	75-125			
Chromium	61.3	0.52	0.012	mg/kg dry	41.6	26.7	83.3	75-125			
Copper	105	1.0	0.073	mg/kg dry	41.6	62.7	101	75-125			
Lead	44.3	1.0	0.035	mg/kg dry	41.6	7.94	87.4	75-125			
Nickel	78.7	0.52	0.015	mg/kg dry	41.6	42.8	86.3	75-125			
Selenium	34.5	1.0	0.11	mg/kg dry	41.6	<1.0	83.1	75-125			
Silver	3.84	0.26	0.0094	mg/kg dry	4.16	<0.26	92.4	75-125			
Thallium	34.5	2.1	0.14	mg/kg dry	41.6	2.45	77.1	75-125			
Zinc	85.1	1.0	0.23	mg/kg dry	41.6	46.1	93.9	75-125			
Matrix Spike Dup (B9I1012-MSD1)		**Source: 0903926-05**			Prepared & Analyzed: 09/10/09						
Antimony	34.5	0.52	0.0057	mg/kg dry	41.6	<0.52	83.1	75-125	0.291	20	
Arsenic	41.0	0.52	0.10	mg/kg dry	41.6	4.11	88.8	75-125	0.661	20	
Beryllium	4.17	0.26	0.011	mg/kg dry	4.16	0.265	93.9	75-125	0.626	20	
Cadmium	36.2	0.26	0.026	mg/kg dry	41.6	<0.26	87.0	75-125	0.0621	20	
Chromium	61.8	0.52	0.012	mg/kg dry	41.6	26.7	84.4	75-125	0.746	20	
Copper	106	1.0	0.073	mg/kg dry	41.6	62.7	104	75-125	1.23	20	
Lead	44.5	1.0	0.035	mg/kg dry	41.6	7.94	87.9	75-125	0.452	20	
Nickel	75.4	0.52	0.015	mg/kg dry	41.6	42.8	78.3	75-125	4.33	20	
Selenium	34.6	1.0	0.11	mg/kg dry	41.6	<1.0	83.3	75-125	0.252	20	
Silver	3.92	0.26	0.0094	mg/kg dry	4.16	<0.26	94.2	75-125	1.94	20	
Thallium	35.0	2.1	0.14	mg/kg dry	41.6	2.45	78.4	75-125	1.48	20	
Zinc	85.2	1.0	0.23	mg/kg dry	41.6	46.1	94.2	75-125	0.142	20	

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Barr Engineering Co.	Project:	23/19-0B05.07			
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300		Work Order #:	0903903
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/18/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1407 - EPA 200.7/3005A Digestion											
Blank (B9I1407-BLK1)					Prepared & Analyzed: 09/14/09						
Arsenic	< 10	10	2.0	ug/L							
Cadmium	< 1.0	1.0	0.099	ug/L							
Chromium	< 10	10	0.24	ug/L							
Copper	< 20	20	1.4	ug/L							
Lead	< 3.0	3.0	0.68	ug/L							
Nickel	< 5.0	5.0	0.28	ug/L							
Selenium	< 20	20	2.2	ug/L							
Silver	< 5.0	5.0	0.18	ug/L							
Zinc	< 20	20	4.4	ug/L							
LCS (B9I1407-BS1)					Prepared & Analyzed: 09/14/09						
Arsenic	415	10	2.0	ug/L	399		104	80-120			
Cadmium	429	1.0	0.099	ug/L	399		108	80-120			
Chromium	418	10	0.24	ug/L	399		105	80-120			
Copper	422	20	1.4	ug/L	399		106	80-120			
Lead	429	3.0	0.68	ug/L	399		108	80-120			
Nickel	423	5.0	0.28	ug/L	399		106	80-120			
Selenium	403	20	2.2	ug/L	399		101	80-120			
Silver	41.8	5.0	0.18	ug/L	39.9		105	80-120			
Zinc	422	20	4.4	ug/L	399		106	80-120			
LCS Dup (B9I1407-BSD1)					Prepared & Analyzed: 09/14/09						
Arsenic	415	10	2.0	ug/L	399		104	80-120	0.0292	20	
Cadmium	428	1.0	0.099	ug/L	399		107	80-120	0.280	20	
Chromium	416	10	0.24	ug/L	399		104	80-120	0.618	20	
Copper	418	20	1.4	ug/L	399		105	80-120	0.880	20	
Lead	427	3.0	0.68	ug/L	399		107	80-120	0.499	20	
Nickel	421	5.0	0.28	ug/L	399		105	80-120	0.612	20	
Selenium	406	20	2.2	ug/L	399		102	80-120	0.696	20	
Silver	41.1	5.0	0.18	ug/L	39.9		103	80-120	1.69	20	
Zinc	418	20	4.4	ug/L	399		105	80-120	0.962	20	
Matrix Spike (B9I1407-MS1)		**Source: 0903902-01**			Prepared & Analyzed: 09/14/09						
Arsenic	413	10	2.0	ug/L	399	<10	103	75-125			
Cadmium	413	1.0	0.099	ug/L	399	<1.0	104	75-125			
Chromium	418	10	0.24	ug/L	399	<10	105	75-125			
Copper	425	20	1.4	ug/L	399	<20	107	75-125			
Lead	415	3.0	0.68	ug/L	399	<3.0	104	75-125			
Nickel	414	5.0	0.28	ug/L	399	<5.0	103	75-125			
Selenium	394	20	2.2	ug/L	399	<20	97.9	75-125			
Silver	42.1	5.0	0.18	ug/L	39.9	<5.0	105	75-125			

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903903
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/18/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1407 - EPA 200.7/3005A Digestion											
Matrix Spike (B9I1407-MS1)		**Source: 0903902-01**			Prepared & Analyzed: 09/14/09						
Zinc	394	20	4.4	ug/L	399	<20	98.9	75-125			
Matrix Spike Dup (B9I1407-MSD1)		**Source: 0903902-01**			Prepared & Analyzed: 09/14/09						
Arsenic	413	10	2.0	ug/L	399	<10	103	75-125	0.0354	20	
Cadmium	409	1.0	0.099	ug/L	399	<1.0	102	75-125	1.10	20	
Chromium	403	10	0.24	ug/L	399	<10	101	75-125	3.68	20	
Copper	417	20	1.4	ug/L	399	<20	104	75-125	2.06	20	
Lead	409	3.0	0.68	ug/L	399	<3.0	103	75-125	1.31	20	
Nickel	405	5.0	0.28	ug/L	399	<5.0	101	75-125	2.24	20	
Selenium	413	20	2.2	ug/L	399	<20	103	75-125	4.80	20	
Silver	41.1	5.0	0.18	ug/L	39.9	<5.0	102	75-125	2.30	20	
Zinc	398	20	4.4	ug/L	399	<20	99.7	75-125	0.878	20	
Batch B9I1604 - EPA 200.8 Digestion											
Blank (B9I1604-BLK1)					Prepared: 09/16/09	Analyzed: 09/17/09					
Antimony	< 0.046	0.50	0.046	ug/L							
Beryllium	< 0.027	0.50	0.027	ug/L							
Thallium	< 0.0081	0.50	0.0081	ug/L							
LCS (B9I1604-BS1)					Prepared: 09/16/09	Analyzed: 09/17/09					
Antimony	17.2	0.50	0.046	ug/L	20.0		85.7	80-120			
Beryllium	19.8	0.50	0.027	ug/L	20.0		98.7	80-120			
Thallium	19.1	0.50	0.0081	ug/L	20.0		95.3	80-120			
LCS Dup (B9I1604-BSD1)					Prepared: 09/16/09	Analyzed: 09/17/09					
Antimony	17.8	0.50	0.046	ug/L	20.0		88.9	80-120	3.61	20	
Beryllium	20.3	0.50	0.027	ug/L	20.0		101	80-120	2.50	20	
Thallium	19.0	0.50	0.0081	ug/L	20.0		94.9	80-120	0.490	20	
Matrix Spike (B9I1604-MS1)		**Source: 0903903-02**			Prepared: 09/16/09	Analyzed: 09/17/09					
Antimony	22.2	0.50	0.046	ug/L	20.0	<0.50	110	75-125			
Beryllium	22.6	0.50	0.027	ug/L	20.0	<0.50	113	75-125			
Thallium	21.0	0.50	0.0081	ug/L	20.0	<0.50	105	75-125			
Matrix Spike Dup (B9I1604-MSD1)		**Source: 0903903-02**			Prepared: 09/16/09	Analyzed: 09/17/09					
Antimony	24.5	0.50	0.046	ug/L	20.0	<0.50	121	75-125	9.96	20	
Beryllium	23.4	0.50	0.027	ug/L	20.0	<0.50	117	75-125	3.36	20	
Thallium	23.6	0.50	0.0081	ug/L	20.0	<0.50	118	75-125	11.6	20	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903903
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/18/09

PERCENT SOLIDS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0806 - General Preparation											
Duplicate (B9I0806-DUP1)		**Source: 0903879-01**			Prepared & Analyzed: 09/08/09						
% Solids	91.0			%		91.0			0.00	20	
Duplicate (B9I0806-DUP2)		**Source: 0903884-02**			Prepared & Analyzed: 09/08/09						
% Solids	88.0			%		87.0			1.14	20	
Duplicate (B9I0806-DUP3)		**Source: 0903903-03**			Prepared & Analyzed: 09/08/09						
% Solids	86.0			%		87.0			1.16	20	
Duplicate (B9I0806-DUP4)		**Source: 0903921-05**			Prepared & Analyzed: 09/08/09						
% Solids	96.0			%		96.0			0.00	20	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903903
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/18/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0803 - EPA 3510C (Sep Funnel)											
Blank (B9I0803-BLK1)					Prepared & Analyzed: 09/08/09						
1,2,4-Trichlorobenzene	< 0.19	10	0.19	ug/L							
1,2-Dichlorobenzene	< 0.23	10	0.23	ug/L							
1,2-Diphenylhydrazine as Azobenzene	< 0.24	10	0.24	ug/L							
1,3-Dichlorobenzene	< 0.21	10	0.21	ug/L							
1,4-Dichlorobenzene	< 0.22	10	0.22	ug/L							
2,3,4,6-Tetrachlorophenol	< 0.61	10	0.61	ug/L							
2,4,5-Trichlorophenol	< 0.80	10	0.80	ug/L							
2,4,6-Trichlorophenol	< 0.48	10	0.48	ug/L							
2,4-Dichlorophenol	< 0.47	10	0.47	ug/L							
2,4-Dimethylphenol	< 1.6	10	1.6	ug/L							
2,4-Dinitrophenol	< 1.0	10	1.0	ug/L							
2,4-Dinitrotoluene	< 0.33	10	0.33	ug/L							
2,6-Dichlorophenol	< 0.48	10	0.48	ug/L							
2,6-Dinitrotoluene	< 0.36	10	0.36	ug/L							
2-Chloronaphthalene	< 0.28	10	0.28	ug/L							
2-Chlorophenol	< 0.45	10	0.45	ug/L							
2-Methylnaphthalene	< 0.66	10	0.66	ug/L							
2-Methylphenol	< 0.63	10	0.63	ug/L							
2-Nitroaniline	< 0.72	10	0.72	ug/L							
2-Nitrophenol	< 0.90	10	0.90	ug/L							
3,3´-Dichlorobenzidine	< 7.3	25	7.3	ug/L							
3-Nitroaniline	< 1.2	10	1.2	ug/L							
4,6-Dinitro-2-methylphenol	< 0.65	10	0.65	ug/L							
4-Bromophenyl phenyl ether	< 0.17	10	0.17	ug/L							
4-Chloro-3-methylphenol	< 0.55	10	0.55	ug/L							
4-Chloroaniline	< 2.3	10	2.3	ug/L							
4-Chlorophenyl phenyl ether	< 0.25	10	0.25	ug/L							
4-Methylphenol	< 0.79	10	0.79	ug/L							
4-Nitroaniline	< 0.59	10	0.59	ug/L							
4-Nitrophenol	< 1.2	10	1.2	ug/L							
Acenaphthene	< 0.36	10	0.36	ug/L							
Acenaphthylene	< 0.25	10	0.25	ug/L							
Aniline	< 2.2	10	2.2	ug/L							
Anthracene	< 0.37	10	0.37	ug/L							
Benzidine	< 18	100	18	ug/L							
Benzo (a) anthracene	< 0.37	10	0.37	ug/L							
Benzo (a) pyrene	< 0.29	10	0.29	ug/L							
Benzo (b) fluoranthene	< 0.22	10	0.22	ug/L							
Benzo (g,h,i) perylene	< 0.26	10	0.26	ug/L							

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903903
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/18/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0803 - EPA 3510C (Sep Funnel)											
Blank (B9I0803-BLK1)					Prepared & Analyzed: 09/08/09						
Benzo (k) fluoranthene	< 0.31	10	0.31	ug/L							
Benzoic acid	< 1.2	10	1.2	ug/L							
Benzyl alcohol	< 0.54	10	0.54	ug/L							
Bis(2-chloroethoxy)methane	< 0.18	10	0.18	ug/L							
Bis(2-chloroethyl)ether	< 0.17	10	0.17	ug/L							
Bis(2-chloroisopropyl)ether	< 0.19	10	0.19	ug/L							
Bis(2-ethylhexyl)phthalate	< 0.43	10	0.43	ug/L							
Butyl benzyl phthalate	< 0.37	10	0.37	ug/L							
Carbazole	< 0.26	10	0.26	ug/L							
Chrysene	< 0.27	10	0.27	ug/L							
Dibenz (a,h) anthracene	< 0.23	10	0.23	ug/L							
Dibenzofuran	< 0.39	10	0.39	ug/L							
Diethyl phthalate	< 0.23	10	0.23	ug/L							
Dimethyl phthalate	< 0.24	10	0.24	ug/L							
Di-n-butyl phthalate	< 0.28	10	0.28	ug/L							
Di-n-octyl phthalate	< 0.38	10	0.38	ug/L							
Fluoranthene	< 0.39	10	0.39	ug/L							
Fluorene	< 0.40	10	0.40	ug/L							
Hexachlorobenzene	< 0.20	10	0.20	ug/L							
Hexachlorobutadiene	< 0.26	10	0.26	ug/L							
Hexachlorocyclopentadiene	< 0.31	10	0.31	ug/L							
Hexachloroethane	< 0.31	10	0.31	ug/L							
Indeno (1,2,3-cd) pyrene	< 0.31	10	0.31	ug/L							
Isophorone	< 0.23	10	0.23	ug/L							
Naphthalene	< 0.37	10	0.37	ug/L							
Nitrobenzene	< 0.39	10	0.39	ug/L							
N-Nitrosodimethylamine	< 0.95	10	0.95	ug/L							
N-Nitrosodi-n-propylamine	< 0.21	10	0.21	ug/L							
N-Nitrosodiphenylamine	< 0.23	10	0.23	ug/L							
Pentachlorophenol	< 0.59	10	0.59	ug/L							
Phenanthrene	< 0.39	10	0.39	ug/L							
Phenol	< 0.57	10	0.57	ug/L							
Pyrene	< 0.47	10	0.47	ug/L							
Surrogate: 2,4,6-Tribromophenol	*102*			*ug/L*	*100*		*102*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*68.8*			*ug/L*	*100*		*68.8*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*70.0*			*ug/L*	*100*		*70.0*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*80.3*			*ug/L*	*100*		*80.3*	*47.4-97.8*			
Surrogate: Phenol-d6	*63.2*			*ug/L*	*100*		*63.2*	*30-91.5*			
Surrogate: Terphenyl-d14	*69.5*			*ug/L*	*100*		*69.5*	*30-108*			

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903903
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/18/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0803 - EPA 3510C (Sep Funnel)											
LCS (B9I0803-BS1)					Prepared & Analyzed: 09/08/09						
1,2,4-Trichlorobenzene	62.5	10	0.19	ug/L	100		62.5	48.2-88.3			
1,4-Dichlorobenzene	55.2	10	0.22	ug/L	100		55.2	42.8-82.2			
2,4-Dinitrotoluene	94.1	10	0.33	ug/L	100		94.1	64.6-98.9			
2-Chlorophenol	73.1	10	0.45	ug/L	100		73.1	56.5-88.1			
4-Chloro-3-methylphenol	77.1	10	0.55	ug/L	100		77.1	63.4-95.2			
4-Nitrophenol	75.1	10	1.2	ug/L	100		75.1	51.3-90.6			
Anthracene	75.0	10	0.37	ug/L	100		75.0	66.7-92.8			
Benzo (a) anthracene	83.1	10	0.37	ug/L	100		83.1	72.7-97.2			
Benzo (a) pyrene	76.4	10	0.29	ug/L	100		76.4	66.4-101			
Chrysene	82.1	10	0.27	ug/L	100		82.1	71.5-98.1			
Fluoranthene	77.3	10	0.39	ug/L	100		77.3	68.8-94			
Fluorene	72.9	10	0.40	ug/L	100		72.9	64.2-94.4			
N-Nitrosodi-n-propylamine	69.5	10	0.21	ug/L	100		69.5	63.6-92.8			
Pentachlorophenol	88.2	10	0.59	ug/L	100		88.2	60.2-101			
Phenanthrene	76.3	10	0.39	ug/L	100		76.3	68.1-94.8			
Phenol	52.8	10	0.57	ug/L	100		52.8	39.6-71			
Surrogate: 2,4,6-Tribromophenol	*96.8*			*ug/L*	*100*		*96.8*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*66.9*			*ug/L*	*100*		*66.9*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*67.0*			*ug/L*	*100*		*67.0*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*77.8*			*ug/L*	*100*		*77.8*	*47.4-97.8*			
Surrogate: Phenol-d6	*61.1*			*ug/L*	*100*		*61.1*	*30-91.5*			
Surrogate: Terphenyl-d14	*76.7*			*ug/L*	*100*		*76.7*	*30-108*			
Matrix Spike (B9I0803-MS1)		**Source: 0903907-22**			Prepared & Analyzed: 09/08/09						
1,2,4-Trichlorobenzene	66.8	9.3	0.18	ug/L	92.6	<9.3	72.2	43.8-87.4			
1,4-Dichlorobenzene	60.3	9.3	0.20	ug/L	92.6	<9.3	65.2	43.7-78.7			
2,4-Dinitrotoluene	89.0	9.3	0.31	ug/L	92.6	<9.3	96.1	52.8-100			
2-Chlorophenol	66.5	9.3	0.42	ug/L	92.6	<9.3	71.8	30.1-95			
4-Chloro-3-methylphenol	71.9	9.3	0.51	ug/L	92.6	<9.3	77.6	44.8-98.7			
4-Nitrophenol	66.7	9.3	1.1	ug/L	92.6	<9.3	72.0	32.5-99.6			
Anthracene	70.8	9.3	0.34	ug/L	92.6	<9.3	76.4	44.8-97.6			
Benzo (a) anthracene	78.2	9.3	0.34	ug/L	92.6	<9.3	84.5	30-115			
Benzo (a) pyrene	71.7	9.3	0.27	ug/L	92.6	<9.3	77.4	30-110			
Chrysene	77.5	9.3	0.25	ug/L	92.6	<9.3	83.8	30-115			
Fluoranthene	72.9	9.3	0.36	ug/L	92.6	<9.3	78.7	37.4-103			
Fluorene	68.8	9.3	0.37	ug/L	92.6	<9.3	74.3	49.6-92.1			
N-Nitrosodi-n-propylamine	65.5	9.3	0.19	ug/L	92.6	<9.3	70.8	44.9-100			
Pentachlorophenol	80.7	9.3	0.55	ug/L	92.6	<9.3	87.2	31.2-123			
Phenanthrene	71.5	9.3	0.36	ug/L	92.6	<9.3	77.2	47-99.1			
Phenol	46.2	9.3	0.53	ug/L	92.6	<9.3	49.9	30-79.5			

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903903
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/18/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0803 - EPA 3510C (Sep Funnel)											
Matrix Spike (B9I0803-MS1)		**Source: 0903907-22**			Prepared & Analyzed: 09/08/09						
Surrogate: 2,4,6-Tribromophenol	*89.5*			*ug/L*	*92.6*		*96.7*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*64.8*			*ug/L*	*92.6*		*69.9*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*58.5*			*ug/L*	*92.6*		*63.2*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*73.1*			*ug/L*	*92.6*		*78.9*	*47.4-97.8*			
Surrogate: Phenol-d6	*53.0*			*ug/L*	*92.6*		*57.3*	*30-91.5*			
Surrogate: Terphenyl-d14	*71.8*			*ug/L*	*92.6*		*77.5*	*30-108*			
Matrix Spike Dup (B9I0803-MSD1)		**Source: 0903907-22**			Prepared & Analyzed: 09/08/09						
1,2,4-Trichlorobenzene	65.0	9.3	0.18	ug/L	92.6	<9.3	70.2	43.8-87.4	2.83	28.2	
1,4-Dichlorobenzene	57.4	9.3	0.20	ug/L	92.6	<9.3	62.0	43.7-78.7	5.02	25	
2,4-Dinitrotoluene	89.2	9.3	0.31	ug/L	92.6	<9.3	96.3	52.8-100	0.180	15	
2-Chlorophenol	64.8	9.3	0.42	ug/L	92.6	<9.3	70.0	30.1-95	2.64	27.5	
4-Chloro-3-methylphenol	71.7	9.3	0.51	ug/L	92.6	<9.3	77.4	44.8-98.7	0.241	27.6	
4-Nitrophenol	66.3	9.3	1.1	ug/L	92.6	<9.3	71.6	32.5-99.6	0.511	35	
Anthracene	69.3	9.3	0.34	ug/L	92.6	<9.3	74.9	44.8-97.6	2.06	21	
Benzo (a) anthracene	77.8	9.3	0.34	ug/L	92.6	<9.3	84.0	30-115	0.522	33.7	
Benzo (a) pyrene	71.1	9.3	0.27	ug/L	92.6	<9.3	76.8	30-110	0.796	33.8	
Chrysene	77.5	9.3	0.25	ug/L	92.6	<9.3	83.7	30-115	0.0920	35.1	
Fluoranthene	71.3	9.3	0.36	ug/L	92.6	<9.3	77.0	37.4-103	2.13	29.1	
Fluorene	68.3	9.3	0.37	ug/L	92.6	<9.3	73.8	49.6-92.1	0.632	19.7	
N-Nitrosodi-n-propylamine	64.0	9.3	0.19	ug/L	92.6	<9.3	69.1	44.9-100	2.41	18.6	
Pentachlorophenol	79.5	9.3	0.55	ug/L	92.6	<9.3	85.8	31.2-123	1.53	32.2	
Phenanthrene	70.2	9.3	0.36	ug/L	92.6	<9.3	75.8	47-99.1	1.85	18.4	
Phenol	44.7	9.3	0.53	ug/L	92.6	<9.3	48.3	30-79.5	3.38	33.6	
Surrogate: 2,4,6-Tribromophenol	*88.2*			*ug/L*	*92.6*		*95.3*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*64.1*			*ug/L*	*92.6*		*69.3*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*56.7*			*ug/L*	*92.6*		*61.2*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*71.6*			*ug/L*	*92.6*		*77.3*	*47.4-97.8*			
Surrogate: Phenol-d6	*51.0*			*ug/L*	*92.6*		*55.1*	*30-91.5*			
Surrogate: Terphenyl-d14	*71.4*			*ug/L*	*92.6*		*77.1*	*30-108*			

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903903
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/18/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0810 - EPA 3545 ASE Extraction											
Blank (B9I0810-BLK1)					Prepared: 09/08/09 Analyzed: 09/09/09						
1,2,4-Trichlorobenzene	< 0.027	0.33	0.027	mg/kg wet							
1,2-Dichlorobenzene	< 0.025	0.33	0.025	mg/kg wet							
1,2-Diphenylhydrazine as Azobenzene	< 0.020	0.33	0.020	mg/kg wet							
1,3-Dichlorobenzene	< 0.023	0.33	0.023	mg/kg wet							
1,4-Dichlorobenzene	< 0.024	0.33	0.024	mg/kg wet							
2,3,4,6-Tetrachlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2,4,5-Trichlorophenol	< 0.024	0.67	0.024	mg/kg wet							
2,4,6-Trichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dimethylphenol	< 0.090	0.67	0.090	mg/kg wet							
2,4-Dinitrophenol	< 0.058	0.67	0.058	mg/kg wet							
2,4-Dinitrotoluene	< 0.021	0.33	0.021	mg/kg wet							
2,6-Dichlorophenol	< 0.043	0.67	0.043	mg/kg wet							
2,6-Dinitrotoluene	< 0.019	0.33	0.019	mg/kg wet							
2-Chloronaphthalene	< 0.019	0.33	0.019	mg/kg wet							
2-Chlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2-Methylnaphthalene	< 0.028	0.33	0.028	mg/kg wet							
2-Methylphenol	< 0.035	0.67	0.035	mg/kg wet							
2-Nitroaniline	< 0.020	0.33	0.020	mg/kg wet							
2-Nitrophenol	< 0.036	0.67	0.036	mg/kg wet							
3,3´-Dichlorobenzidine	< 0.39	1.6	0.39	mg/kg wet							
3-Nitroaniline	< 0.033	0.33	0.033	mg/kg wet							
4,6-Dinitro-2-methylphenol	< 0.074	0.67	0.074	mg/kg wet							
4-Bromophenyl phenyl ether	< 0.017	0.33	0.017	mg/kg wet							
4-Chloro-3-methylphenol	< 0.040	0.67	0.040	mg/kg wet							
4-Chloroaniline	< 0.11	0.67	0.11	mg/kg wet							
4-Chlorophenyl phenyl ether	< 0.023	0.33	0.023	mg/kg wet							
4-Methylphenol	< 0.027	0.67	0.027	mg/kg wet							
4-Nitroaniline	< 0.023	0.33	0.023	mg/kg wet							
4-Nitrophenol	< 0.099	0.67	0.099	mg/kg wet							
Acenaphthene	< 0.028	0.33	0.028	mg/kg wet							
Acenaphthylene	< 0.023	0.33	0.023	mg/kg wet							
Aniline	< 0.090	0.67	0.090	mg/kg wet							
Anthracene	< 0.025	0.33	0.025	mg/kg wet							
Benzidine	< 0.72	2.5	0.72	mg/kg wet							
Benzo (a) anthracene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (a) pyrene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (b) fluoranthene	< 0.034	0.33	0.034	mg/kg wet							
Benzo (g,h,i) perylene	< 0.030	0.33	0.030	mg/kg wet							

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903903
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/18/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0810 - EPA 3545 ASE Extraction											
Blank (B9I0810-BLK1)					Prepared: 09/08/09	Analyzed: 09/09/09					
Benzo (k) fluoranthene	< 0.031	0.33	0.031	mg/kg wet							
Benzoic acid	< 0.058	0.33	0.058	mg/kg wet							
Benzyl alcohol	< 0.12	0.67	0.12	mg/kg wet							
Bis(2-chloroethoxy)methane	< 0.021	0.33	0.021	mg/kg wet							
Bis(2-chloroethyl)ether	< 0.024	0.33	0.024	mg/kg wet							
Bis(2-chloroisopropyl)ether	< 0.022	0.33	0.022	mg/kg wet							
Bis(2-ethylhexyl)phthalate	< 0.020	0.33	0.020	mg/kg wet							
Butyl benzyl phthalate	< 0.021	0.33	0.021	mg/kg wet							
Carbazole	< 0.022	0.33	0.022	mg/kg wet							
Chrysene	< 0.033	0.33	0.033	mg/kg wet							
Dibenz (a,h) anthracene	< 0.034	0.33	0.034	mg/kg wet							
Dibenzofuran	< 0.019	0.33	0.019	mg/kg wet							
Diethyl phthalate	< 0.015	0.33	0.015	mg/kg wet							
Dimethyl phthalate	< 0.018	0.33	0.018	mg/kg wet							
Di-n-butyl phthalate	0.109	0.33	0.037	mg/kg wet							B-02, J
Di-n-octyl phthalate	< 0.025	0.33	0.025	mg/kg wet							
Fluoranthene	< 0.024	0.33	0.024	mg/kg wet							
Fluorene	< 0.018	0.33	0.018	mg/kg wet							
Hexachlorobenzene	< 0.016	0.33	0.016	mg/kg wet							
Hexachlorobutadiene	< 0.033	0.33	0.033	mg/kg wet							
Hexachlorocyclopentadiene	< 0.041	0.33	0.041	mg/kg wet							
Hexachloroethane	< 0.028	0.33	0.028	mg/kg wet							
Indeno (1,2,3-cd) pyrene	< 0.032	0.33	0.032	mg/kg wet							
Isophorone	< 0.017	0.33	0.017	mg/kg wet							
Naphthalene	< 0.029	0.33	0.029	mg/kg wet							
Nitrobenzene	< 0.030	0.33	0.030	mg/kg wet							
N-Nitrosodimethylamine	< 0.032	0.33	0.032	mg/kg wet							
N-Nitrosodi-n-propylamine	< 0.025	0.33	0.025	mg/kg wet							
N-Nitrosodiphenylamine	< 0.018	0.33	0.018	mg/kg wet							
Pentachlorophenol	< 0.096	0.67	0.096	mg/kg wet							
Phenanthrene	< 0.019	0.33	0.019	mg/kg wet							
Phenol	< 0.057	0.67	0.057	mg/kg wet							
Pyrene	< 0.023	0.33	0.023	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	*3.55*			*mg/kg wet*	*6.67*		*53.3*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*3.93*			*mg/kg wet*	*6.67*		*59.0*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*3.88*			*mg/kg wet*	*6.67*		*58.2*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*3.86*			*mg/kg wet*	*6.67*		*57.8*	*49.1-86.9*			
Surrogate: Phenol-d6	*3.90*			*mg/kg wet*	*6.67*		*58.5*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.10*			*mg/kg wet*	*6.67*		*76.5*	*43.6-112*			

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LEGEND Technical Services, Inc.
www.legend-group.com

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903903
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/18/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0810 - EPA 3545 ASE Extraction											
LCS (B9I0810-BS1)					Prepared: 09/08/09		Analyzed: 09/09/09				
1,2,4-Trichlorobenzene	4.65	0.33	0.027	mg/kg wet	6.67		69.8	50.7-82.1			
1,4-Dichlorobenzene	4.27	0.33	0.024	mg/kg wet	6.67		64.0	44-77			
2,4-Dinitrotoluene	4.72	0.33	0.021	mg/kg wet	6.67		70.9	56.7-81.7			
2-Chlorophenol	4.51	0.67	0.038	mg/kg wet	6.67		67.6	52.3-88.2			
4-Chloro-3-methylphenol	4.70	0.67	0.040	mg/kg wet	6.67		70.4	53.4-87			
4-Nitrophenol	4.65	0.67	0.099	mg/kg wet	6.67		69.8	55.7-87.1			
Anthracene	5.94	0.33	0.025	mg/kg wet	6.67		89.2	65.3-92			
Benzo (a) anthracene	5.76	0.33	0.027	mg/kg wet	6.67		86.4	69-95.3			
Benzo (a) pyrene	6.09	0.33	0.027	mg/kg wet	6.67		91.4	68.5-98.2			
Chrysene	5.62	0.33	0.033	mg/kg wet	6.67		84.4	68.6-94.2			
Fluoranthene	5.78	0.33	0.024	mg/kg wet	6.67		86.7	64.3-94.6			
Fluorene	5.26	0.33	0.018	mg/kg wet	6.67		78.9	61.9-89.4			
N-Nitrosodi-n-propylamine	4.87	0.33	0.025	mg/kg wet	6.67		73.1	55.5-91.1			
Pentachlorophenol	3.82	0.67	0.096	mg/kg wet	6.67		57.4	54.7-74.6			
Phenanthrene	5.70	0.33	0.019	mg/kg wet	6.67		85.6	64.3-90.9			
Phenol	4.67	0.67	0.057	mg/kg wet	6.67		70.1	49.7-85.4			
Surrogate: 2,4,6-Tribromophenol	*4.40*			*mg/kg wet*	*6.67*		*66.0*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*5.18*			*mg/kg wet*	*6.67*		*77.8*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*4.88*			*mg/kg wet*	*6.67*		*73.2*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.85*			*mg/kg wet*	*6.67*		*72.8*	*49.1-86.9*			
Surrogate: Phenol-d6	*4.99*			*mg/kg wet*	*6.67*		*74.8*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.37*			*mg/kg wet*	*6.67*		*80.6*	*43.6-112*			
Matrix Spike (B9I0810-MS1)		**Source: 0903926-05**			Prepared: 09/08/09		Analyzed: 09/09/09				
1,2,4-Trichlorobenzene	4.81	0.34	0.028	mg/kg dry	7.00	<0.34	68.8	51-77.5			
1,4-Dichlorobenzene	4.42	0.34	0.025	mg/kg dry	7.00	<0.34	63.1	41.7-73.4			
2,4-Dinitrotoluene	4.79	0.34	0.022	mg/kg dry	7.00	<0.34	68.5	50-84.8			
2-Chlorophenol	4.71	0.70	0.040	mg/kg dry	7.00	<0.70	67.4	47.8-90.8			
4-Chloro-3-methylphenol	4.81	0.70	0.042	mg/kg dry	7.00	<0.70	68.8	48.4-95.1			
4-Nitrophenol	4.59	0.70	0.10	mg/kg dry	7.00	<0.70	65.5	44-105			
Anthracene	6.04	0.34	0.026	mg/kg dry	7.00	<0.34	86.4	60.2-97.3			
Benzo (a) anthracene	5.88	0.34	0.028	mg/kg dry	7.00	<0.34	84.1	59.8-102			
Benzo (a) pyrene	6.11	0.34	0.028	mg/kg dry	7.00	<0.34	87.3	57.2-105			
Chrysene	5.67	0.34	0.034	mg/kg dry	7.00	<0.34	81.0	59.2-102			
Fluoranthene	5.89	0.34	0.025	mg/kg dry	7.00	<0.34	83.6	50.4-108			
Fluorene	5.47	0.34	0.019	mg/kg dry	7.00	<0.34	78.1	57.8-94.4			
N-Nitrosodi-n-propylamine	5.10	0.34	0.026	mg/kg dry	7.00	<0.34	72.9	46.2-96.2			
Pentachlorophenol	3.55	0.70	0.10	mg/kg dry	7.00	<0.70	50.8	53.6-80.4			M2
Phenanthrene	5.83	0.34	0.020	mg/kg dry	7.00	<0.34	83.3	58.4-97.5			
Phenol	4.86	0.70	0.059	mg/kg dry	7.00	<0.70	69.4	44-88.5			

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903903
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/18/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0810 - EPA 3545 ASE Extraction											
Matrix Spike (B9I0810-MS1)		**Source: 0903926-05**			Prepared: 09/08/09		Analyzed: 09/09/09				
Surrogate: 2,4,6-Tribromophenol	*4.55*			*mg/kg dry*	*7.00*		*65.1*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*5.23*			*mg/kg dry*	*7.00*		*74.7*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*4.96*			*mg/kg dry*	*7.00*		*70.9*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.92*			*mg/kg dry*	*7.00*		*70.3*	*49.1-86.9*			
Surrogate: Phenol-d6	*5.07*			*mg/kg dry*	*7.00*		*72.5*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.38*			*mg/kg dry*	*7.00*		*76.9*	*43.6-112*			
Matrix Spike Dup (B9I0810-MSD1)		**Source: 0903926-05**			Prepared: 09/08/09		Analyzed: 09/09/09				
1,2,4-Trichlorobenzene	4.33	0.34	0.028	mg/kg dry	7.02	<0.34	61.7	51-77.5	10.5	15.7	
1,4-Dichlorobenzene	3.96	0.34	0.025	mg/kg dry	7.02	<0.34	56.4	41.7-73.4	10.9	14.7	
2,4-Dinitrotoluene	4.26	0.34	0.022	mg/kg dry	7.02	<0.34	60.7	50-84.8	11.6	20.5	
2-Chlorophenol	4.23	0.70	0.040	mg/kg dry	7.02	<0.70	60.2	47.8-90.8	10.9	19.8	
4-Chloro-3-methylphenol	4.19	0.70	0.042	mg/kg dry	7.02	<0.70	59.6	48.4-95.1	13.8	18.7	
4-Nitrophenol	4.10	0.70	0.10	mg/kg dry	7.02	<0.70	58.3	44-105	11.2	30.9	
Anthracene	5.28	0.34	0.026	mg/kg dry	7.02	<0.34	75.2	60.2-97.3	13.4	15.1	
Benzo (a) anthracene	5.28	0.34	0.028	mg/kg dry	7.02	<0.34	75.2	59.8-102	10.7	19.6	
Benzo (a) pyrene	5.49	0.34	0.028	mg/kg dry	7.02	<0.34	78.2	57.2-105	10.6	19.4	
Chrysene	5.07	0.34	0.034	mg/kg dry	7.02	<0.34	72.2	59.2-102	11.1	19.6	
Fluoranthene	5.17	0.34	0.025	mg/kg dry	7.02	<0.34	73.1	50.4-108	12.9	21	
Fluorene	4.95	0.34	0.019	mg/kg dry	7.02	<0.34	70.4	57.8-94.4	10.0	15.8	
N-Nitrosodi-n-propylamine	4.61	0.34	0.026	mg/kg dry	7.02	<0.34	65.7	46.2-96.2	9.96	17.1	
Pentachlorophenol	3.07	0.70	0.10	mg/kg dry	7.02	<0.70	43.7	53.6-80.4	14.6	22.4	M2
Phenanthrene	5.16	0.34	0.020	mg/kg dry	7.02	<0.34	73.4	58.4-97.5	12.2	14.3	
Phenol	4.32	0.70	0.059	mg/kg dry	7.02	<0.70	61.6	44-88.5	11.6	21.5	
Surrogate: 2,4,6-Tribromophenol	*4.08*			*mg/kg dry*	*7.02*		*58.1*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*4.69*			*mg/kg dry*	*7.02*		*66.8*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*4.49*			*mg/kg dry*	*7.02*		*64.0*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.47*			*mg/kg dry*	*7.02*		*63.7*	*49.1-86.9*			
Surrogate: Phenol-d6	*4.56*			*mg/kg dry*	*7.02*		*64.9*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*4.77*			*mg/kg dry*	*7.02*		*67.9*	*43.6-112*			

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903903
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/18/09

Notes and Definitions

M2	Matrix spike recovery was low, the associated blank spike recovery was acceptable.
J	Parameter was present between the MDL and RL and should be considered an estimated value
B-02	Target analyte was present in the method blank between the MDL and RL.
B	Analyte was present in the method blank. Sample result is less than or equal to 5 times the blank concentration.
<	Less than value listed
dry	Sample results reported on a dry weight basis
NA	Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL	Method Detection Limit
RL	Reporting Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
MS	Matrix Spike = Laboratory Fortified Matrix (LFM)

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0903903

BARR

Chain of Custody

4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number: 23/19-0B05.07 SIR 1300

Project Name: UMA-SSI/RI

№ 28809

COC 1 of 1

Project Manager: JSTUME

Project Contact: KJN/AAN

Sampled by: KLB

Laboratory: Legend

	Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: OC	Volatile Organics (Pres.)*1	Semivolatile Organics *2	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	General (Unpreserved) *3	Cyanide (NaOH)	Nutrients (H_2SO_4) *4	Oil and Grease (H_2SO_4)	Sulfide (Zn Acetate)	Methane	Bacteria ($Na_2S_2O_3$)	DRO (HCl)	VOCs (2-oz tared MeOH) *1	GRO, BTEX (2-oz tared MeOH)*1	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.)*2	% Moisture (plastic vial, unpres.)	Total No. Of Containers	Remarks
01	1. SOCS-SS9-0.5'	9/1/09	850		X	X																		X	X	X	7	Analyze PPL metals + SVOCs MS/MSD vol include
02	2. FB-1		1030	X		X		X		X		X															2	Analyze PPL metals + SVOCs
03	3. SOCS-TT29-5'	↓	1130		X	X																		X		X	3	Analyze PPL metals
	4.																											
	5.																											
	6.																											
	7.																											
	8.																											
	9.																											
	10.																											
	11.																											
	12.																											

Common Parameter/Container - Preservation Key

*1 - *Volatile Organics = BTEX, GRO, TPH, Full List*
*2 - *Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs*
*3 - *General = pH, Chloride, Flouride, Alkalinity, TSS, TDS, TS, Sulfate*
*4 - *Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN*

Relinquished By:	On Ice? Y N	Date	Time	Received by:	Date	Time
[signature]	Y	9/2/09	800			
Relinquished By:	On Ice? Y N	Date	Time	Received by: [signature]	Date 9/2/09	Time 11:30

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other _____

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

H:\LG\STDFORMS\COC-Chain Of Custody.Form RLG Rev. 07.01.05

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September 24, 2009

Ms. Kelly Neppl
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0903921
RE: 23/19-0B05.07

Enclosed are the results of analyses for samples received by the laboratory on 09/04/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of this report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

Terri Olson
Client Manager II
tolson@legend-group.com

Erica Nastrom
QA/QC Coordinator
enastrom@legend-group.com

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88 Empire Drive
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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC5-GP1 (0.5-1.5)	0903921-01	Soil	09/02/09 08:45	09/04/09 12:00
SOC5-GP1	0903921-02	Water	09/02/09 09:50	09/04/09 12:00
SOC5-Dup1	0903921-03	Water	09/02/09 12:00	09/04/09 12:00
SOC5-GP2 (2-3)	0903921-04	Soil	09/02/09 11:15	09/04/09 12:00
SOC5-GP3 (1-2)	0903921-05	Soil	09/02/09 14:30	09/04/09 12:00
Trip Blank	0903921-06	Water	06/08/09 00:00	09/04/09 12:00

Shipping Container Information

Default Cooler Temperature (°C): 4.7

Received on ice: Yes
Received on melt water: No
Custody seals: Yes

Temperature blank was present
Ambient: No

Received on ice pack: No
Acceptable (IH/ISO only): No

Case Narrative:

MN Certification does not apply to dichlorofluoromethane, tetrahydrofuran, and 1,1,2-trichlorotrifluoroethane in the 8260B analysis or to carbazole in the 8270C analysis.

Beryllium recoveries in the MS/MSD samples for the 6020 batch B9I2003 were below laboratory control limits. Recoveries in the LCS/LCSD samples and the corresponding RPDs were within limits. The MS/MSD source sample was sample SOC5-GP1.

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Barr Engineering Co.	Project:	23/19-0B05.07			
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300		Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/24/09

DISSOLVED METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP1 (0903921-02) Water Sampled: 09/02/09 09:50 Received: 09/04/09 12:00										
Antimony	**0.54**	0.50	0.046	ug/L	1	B9I2003	09/20/09	09/21/09	EPA 6020 (Dissolved)	
Arsenic	<10	10	2.0	ug/L	1	B9I1407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
Beryllium	<0.027	0.50	0.027	ug/L	1	B9I2003	09/20/09	09/21/09	EPA 6020 (Dissolved)	M2
Cadmium	<1.0	1.0	0.099	ug/L	1	B9I1407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	
Copper	<20	20	1.4	ug/L	1	"	"	"	"	
Lead	<3.0	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B9I0811	09/21/09	09/21/09	EPA 7470A (Dissolved)	
Nickel	**5.3**	5.0	0.28	ug/L	1	B9I1407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
Selenium	<20	20	2.2	ug/L	1	"	"	"	"	
Silver	<5.0	5.0	0.18	ug/L	1	"	"	"	"	
Thallium	**0.097**	0.50	0.0081	ug/L	1	B9I2003	09/20/09	09/21/09	EPA 6020 (Dissolved)	J
Zinc	<20	20	4.4	ug/L	1	B9I1407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
SOC5-Dup1 (0903921-03) Water Sampled: 09/02/09 12:00 Received: 09/04/09 12:00										
Antimony	**1.2**	0.50	0.046	ug/L	1	B9I2003	09/20/09	09/21/09	EPA 6020 (Dissolved)	
Arsenic	<10	10	2.0	ug/L	1	B9I1407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
Beryllium	<0.027	0.50	0.027	ug/L	1	B9I2003	09/20/09	09/21/09	EPA 6020 (Dissolved)	
Cadmium	<1.0	1.0	0.099	ug/L	1	B9I1407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	
Copper	<20	20	1.4	ug/L	1	"	"	"	"	
Lead	<3.0	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B9I0811	09/21/09	09/21/09	EPA 7470A (Dissolved)	
Nickel	**6.4**	5.0	0.28	ug/L	1	B9I1407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
Selenium	<20	20	2.2	ug/L	1	"	"	"	"	
Silver	<5.0	5.0	0.18	ug/L	1	"	"	"	"	
Thallium	**0.11**	0.50	0.0081	ug/L	1	B9I2003	09/20/09	09/21/09	EPA 6020 (Dissolved)	J
Zinc	<20	20	4.4	ug/L	1	B9I1407	09/14/09	09/14/09	EPA 6010B (Dissolved)	

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Barr Engineering Co.	Project:	23/19-0B05.07			
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300		Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/24/09

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP1 (0.5-1.5) (0903921-01) Soil Sampled: 09/02/09 08:45 Received: 09/04/09 12:00										
Antimony	<0.60	0.60	0.0065	mg/kg dry	1	B9I1012	09/10/09	09/10/09	EPA 6010B	
Arsenic	**7.6**	0.60	0.12	mg/kg dry	1	"	"	"	"	
Beryllium	<0.30	0.30	0.013	mg/kg dry	1	"	"	"	"	
Cadmium	<0.30	0.30	0.030	mg/kg dry	1	"	"	"	"	
Chromium	**16**	0.60	0.014	mg/kg dry	1	"	"	"	"	
Copper	**14**	1.2	0.083	mg/kg dry	1	"	"	"	"	
Lead	**10**	1.2	0.040	mg/kg dry	1	"	"	"	"	
Mercury	<0.12	0.12	0.0021	mg/kg dry	1	B9I0905	09/09/09	09/24/09	EPA 7471A	
Nickel	**16**	0.60	0.017	mg/kg dry	1	B9I1012	09/10/09	09/10/09	EPA 6010B	
Selenium	<1.2	1.2	0.13	mg/kg dry	1	"	"	"	"	
Silver	<0.30	0.30	0.011	mg/kg dry	1	"	"	"	"	
Thallium	<2.4	2.4	0.15	mg/kg dry	1	"	"	"	"	
Zinc	**36**	1.2	0.26	mg/kg dry	1	"	"	"	"	
SOC5-GP2 (2-3) (0903921-04) Soil Sampled: 09/02/09 11:15 Received: 09/04/09 12:00										
Antimony	<0.56	0.56	0.0062	mg/kg dry	1	B9I1012	09/10/09	09/10/09	EPA 6010B	
Arsenic	**8.0**	0.56	0.11	mg/kg dry	1	"	"	"	"	
Beryllium	<0.28	0.28	0.012	mg/kg dry	1	"	"	"	"	
Cadmium	<0.28	0.28	0.028	mg/kg dry	1	"	"	"	"	
Chromium	**17**	0.56	0.013	mg/kg dry	1	"	"	"	"	
Copper	**12**	1.1	0.079	mg/kg dry	1	"	"	"	"	
Lead	**8.8**	1.1	0.038	mg/kg dry	1	"	"	"	"	
Mercury	<0.11	0.11	0.0020	mg/kg dry	1	B9I0905	09/09/09	09/24/09	EPA 7471A	
Nickel	**15**	0.56	0.016	mg/kg dry	1	B9I1012	09/10/09	09/10/09	EPA 6010B	
Selenium	<1.1	1.1	0.12	mg/kg dry	1	"	"	"	"	
Silver	<0.28	0.28	0.010	mg/kg dry	1	"	"	"	"	
Thallium	<2.2	2.2	0.15	mg/kg dry	1	"	"	"	"	
Zinc	**36**	1.1	0.25	mg/kg dry	1	"	"	"	"	
SOC5-GP3 (1-2) (0903921-05) Soil Sampled: 09/02/09 14:30 Received: 09/04/09 12:00										
Antimony	<0.52	0.52	0.0057	mg/kg dry	1	B9I1012	09/10/09	09/10/09	EPA 6010B	
Arsenic	**3.1**	0.52	0.10	mg/kg dry	1	"	"	"	"	
Beryllium	<0.26	0.26	0.011	mg/kg dry	1	"	"	"	"	
Cadmium	<0.26	0.26	0.026	mg/kg dry	1	"	"	"	"	
Chromium	**9.2**	0.52	0.012	mg/kg dry	1	"	"	"	"	
Copper	**8.1**	1.0	0.073	mg/kg dry	1	"	"	"	"	
Lead	**3.6**	1.0	0.035	mg/kg dry	1	"	"	"	"	
Mercury	<0.10	0.10	0.0019	mg/kg dry	1	B9I0905	09/09/09	09/24/09	EPA 7471A	
Nickel	**9.7**	0.52	0.015	mg/kg dry	1	B9I1012	09/10/09	09/10/09	EPA 6010B	
Selenium	<1.0	1.0	0.11	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP3 (1-2) (0903921-05) Soil Sampled: 09/02/09 14:30 Received: 09/04/09 12:00										
Silver	<0.26	0.26	0.0094	mg/kg dry	1	B9I1012	09/10/09	09/10/09	EPA 6010B	
Thallium	<2.1	2.1	0.14	mg/kg dry	1	"	"	"	"	
Zinc	**15**	1.0	0.23	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

PERCENT SOLIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP1 (0.5-1.5) (0903921-01) Soil Sampled: 09/02/09 08:45 Received: 09/04/09 12:00										
% Solids	**84**			%	1	B9I0806	09/08/09	09/08/09	% calculation	
SOC5-GP2 (2-3) (0903921-04) Soil Sampled: 09/02/09 11:15 Received: 09/04/09 12:00										
% Solids	**89**			%	1	B9I0806	09/08/09	09/08/09	% calculation	
SOC5-GP3 (1-2) (0903921-05) Soil Sampled: 09/02/09 14:30 Received: 09/04/09 12:00										
% Solids	**96**			%	1	B9I0806	09/08/09	09/08/09	% calculation	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP1 (0.5-1.5) (0903921-01) Soil	**Sampled: 09/02/09 08:45**			**Received: 09/04/09 12:00**						
1,2,4-Trichlorobenzene	<0.032	0.39	0.032	mg/kg dry	1	B9I0910	09/09/09	09/10/09	EPA 8270C	
1,2-Dichlorobenzene	<0.030	0.39	0.030	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.045	0.80	0.045	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.029	0.80	0.029	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.042	0.80	0.042	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.042	0.80	0.042	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.80	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.069	0.80	0.069	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.051	0.80	0.051	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.023	0.39	0.023	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.023	0.39	0.023	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.045	0.80	0.045	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.042	0.80	0.042	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.043	0.80	0.043	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.46	1.9	0.46	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.088	0.80	0.088	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.39	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.048	0.80	0.048	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.80	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.032	0.80	0.032	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.80	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
Aniline	<0.11	0.80	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	<0.030	0.39	0.030	mg/kg dry	1	"	"	"	"	
Benzidine	<0.86	3.0	0.86	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.032	0.39	0.032	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.032	0.39	0.032	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.040	0.39	0.040	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.036	0.39	0.036	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP1 (0.5-1.5) (0903921-01) Soil	**Sampled: 09/02/09 08:45**			**Received: 09/04/09 12:00**						
Benzo (k) fluoranthene	<0.037	0.39	0.037	mg/kg dry	1	B9I0910	09/09/09	09/10/09	EPA 8270C	
Benzoic acid	<0.069	0.39	0.069	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.80	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.026	0.39	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
Carbazole	<0.026	0.39	0.026	mg/kg dry	1	"	"	"	"	
Chrysene	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.040	0.39	0.040	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.023	0.39	0.023	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.018	0.39	0.018	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.044	0.39	0.044	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.030	0.39	0.030	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
Fluorene	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.019	0.39	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.049	0.39	0.049	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.038	0.39	0.038	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.39	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.035	0.39	0.035	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.036	0.39	0.036	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.038	0.39	0.038	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.030	0.39	0.030	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.80	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.023	0.39	0.023	mg/kg dry	1	"	"	"	"	
Phenol	<0.068	0.80	0.068	mg/kg dry	1	"	"	"	"	
Pyrene	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*61.7*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*68.5*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*65.6*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*63.1*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*68.2*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*79.2*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP1 (0903921-02) Water Sampled: 09/02/09 09:50 Received: 09/04/09 12:00										
1,2,4-Trichlorobenzene	<0.18	9.3	0.18	ug/L	1	B9I0803	09/08/09	09/09/09	EPA 8270C	
1,2-Dichlorobenzene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.56	9.3	0.56	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	9.3	0.74	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<1.5	9.3	1.5	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<0.93	9.3	0.93	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<0.31	9.3	0.31	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
2-Chlorophenol	<0.42	9.3	0.42	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<0.61	9.3	0.61	ug/L	1	"	"	"	"	
2-Methylphenol	<0.58	9.3	0.58	ug/L	1	"	"	"	"	
2-Nitroaniline	<0.67	9.3	0.67	ug/L	1	"	"	"	"	
2-Nitrophenol	<0.83	9.3	0.83	ug/L	1	"	"	"	"	
3,3´-Dichlorobenzidine	<6.8	23	6.8	ug/L	1	"	"	"	"	
3-Nitroaniline	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.60	9.3	0.60	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.51	9.3	0.51	ug/L	1	"	"	"	"	
4-Chloroaniline	<2.1	9.3	2.1	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
4-Methylphenol	<0.73	9.3	0.73	ug/L	1	"	"	"	"	
4-Nitroaniline	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
4-Nitrophenol	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Acenaphthene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
Acenaphthylene	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
Aniline	<2.0	9.3	2.0	ug/L	1	"	"	"	"	
Anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzidine	<17	93	17	ug/L	1	"	"	"	"	
Benzo (a) anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzo (a) pyrene	<0.27	9.3	0.27	ug/L	1	"	"	"	"	
Benzo (b) fluoranthene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP1 (0903921-02) Water Sampled: 09/02/09 09:50 Received: 09/04/09 12:00										
Benzo (k) fluoranthene	<0.29	9.3	0.29	ug/L	1	B9I0803	09/08/09	09/09/09	EPA 8270C	
Benzoic acid	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Benzyl alcohol	<0.50	9.3	0.50	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.17	9.3	0.17	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.18	9.3	0.18	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.40	9.3	0.40	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Carbazole	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Chrysene	<0.25	9.3	0.25	ug/L	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dibenzofuran	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Diethyl phthalate	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dimethyl phthalate	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<0.35	9.3	0.35	ug/L	1	"	"	"	"	
Fluoranthene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Fluorene	<0.37	9.3	0.37	ug/L	1	"	"	"	"	
Hexachlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Hexachloroethane	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Isophorone	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Naphthalene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Nitrobenzene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<0.88	9.3	0.88	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Pentachlorophenol	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
Phenanthrene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Phenol	<0.53	9.3	0.53	ug/L	1	"	"	"	"	
Pyrene	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*89.9*			*48.5-114 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*72.1*			*41.7-98.4 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*62.2*			*30-93.5 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*75.3*			*47.4-97.8 %*		"	"	"	"	
Surrogate: Phenol-d6	*57.8*			*30-91.5 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*56.1*			*30-108 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-Dup1 (0903921-03) Water Sampled: 09/02/09 12:00 Received: 09/04/09 12:00										
1,2,4-Trichlorobenzene	<0.18	9.3	0.18	ug/L	1	B9I0803	09/08/09	09/09/09	EPA 8270C	
1,2-Dichlorobenzene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.56	9.3	0.56	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	9.3	0.74	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<1.5	9.3	1.5	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<0.93	9.3	0.93	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<0.31	9.3	0.31	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
2-Chlorophenol	<0.42	9.3	0.42	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<0.61	9.3	0.61	ug/L	1	"	"	"	"	
2-Methylphenol	<0.58	9.3	0.58	ug/L	1	"	"	"	"	
2-Nitroaniline	<0.67	9.3	0.67	ug/L	1	"	"	"	"	
2-Nitrophenol	<0.83	9.3	0.83	ug/L	1	"	"	"	"	
3,3´-Dichlorobenzidine	<6.8	23	6.8	ug/L	1	"	"	"	"	
3-Nitroaniline	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.60	9.3	0.60	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.51	9.3	0.51	ug/L	1	"	"	"	"	
4-Chloroaniline	<2.1	9.3	2.1	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
4-Methylphenol	<0.73	9.3	0.73	ug/L	1	"	"	"	"	
4-Nitroaniline	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
4-Nitrophenol	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Acenaphthene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
Acenaphthylene	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
Aniline	<2.0	9.3	2.0	ug/L	1	"	"	"	"	
Anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzidine	<17	93	17	ug/L	1	"	"	"	"	
Benzo (a) anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzo (a) pyrene	<0.27	9.3	0.27	ug/L	1	"	"	"	"	
Benzo (b) fluoranthene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07	
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #: 0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported: 09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-Dup1 (0903921-03) Water Sampled: 09/02/09 12:00 Received: 09/04/09 12:00										
Benzo (k) fluoranthene	<0.29	9.3	0.29	ug/L	1	B9I0803	09/08/09	09/09/09	EPA 8270C	
Benzoic acid	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Benzyl alcohol	<0.50	9.3	0.50	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.17	9.3	0.17	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.18	9.3	0.18	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.40	9.3	0.40	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Carbazole	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Chrysene	<0.25	9.3	0.25	ug/L	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dibenzofuran	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Diethyl phthalate	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dimethyl phthalate	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<0.35	9.3	0.35	ug/L	1	"	"	"	"	
Fluoranthene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Fluorene	<0.37	9.3	0.37	ug/L	1	"	"	"	"	
Hexachlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Hexachloroethane	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Isophorone	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Naphthalene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Nitrobenzene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<0.88	9.3	0.88	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Pentachlorophenol	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
Phenanthrene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Phenol	<0.53	9.3	0.53	ug/L	1	"	"	"	"	
Pyrene	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*87.5*			*48.5-114 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*71.6*			*41.7-98.4 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*60.6*			*30-93.5 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*75.3*			*47.4-97.8 %*		"	"	"	"	
Surrogate: Phenol-d6	*56.6*			*30-91.5 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*57.6*			*30-108 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP2 (2-3) (0903921-04) Soil Sampled: 09/02/09 11:15 Received: 09/04/09 12:00										
1,2,4-Trichlorobenzene	<0.030	0.37	0.030	mg/kg dry	1	B9I0910	09/09/09	09/10/09	EPA 8270C	
1,2-Dichlorobenzene	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.022	0.37	0.022	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.027	0.37	0.027	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.043	0.75	0.043	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.027	0.75	0.027	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.039	0.75	0.039	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.039	0.75	0.039	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.75	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.065	0.75	0.065	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.024	0.37	0.024	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.048	0.75	0.048	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.043	0.75	0.043	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.031	0.37	0.031	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.039	0.75	0.039	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.022	0.37	0.022	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.040	0.75	0.040	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.44	1.8	0.44	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.037	0.37	0.037	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.083	0.75	0.083	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.019	0.37	0.019	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.045	0.75	0.045	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.12	0.75	0.12	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.030	0.75	0.030	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.75	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.031	0.37	0.031	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.75	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
Benzidine	<0.81	2.8	0.81	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.030	0.37	0.030	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.030	0.37	0.030	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.038	0.37	0.038	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.034	0.37	0.034	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP2 (2-3) (0903921-04) Soil Sampled: 09/02/09 11:15 Received: 09/04/09 12:00										
Benzo (k) fluoranthene	<0.035	0.37	0.035	mg/kg dry	1	B9I0910	09/09/09	09/10/09	EPA 8270C	
Benzoic acid	<0.065	0.37	0.065	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.13	0.75	0.13	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.024	0.37	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.027	0.37	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.025	0.37	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.022	0.37	0.022	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.024	0.37	0.024	mg/kg dry	1	"	"	"	"	
Carbazole	<0.025	0.37	0.025	mg/kg dry	1	"	"	"	"	
Chrysene	<0.037	0.37	0.037	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.038	0.37	0.038	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.017	0.37	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.020	0.37	0.020	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.042	0.37	0.042	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.027	0.37	0.027	mg/kg dry	1	"	"	"	"	
Fluorene	<0.020	0.37	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.018	0.37	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.037	0.37	0.037	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.046	0.37	0.046	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.031	0.37	0.031	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.036	0.37	0.036	mg/kg dry	1	"	"	"	"	
Isophorone	<0.019	0.37	0.019	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.033	0.37	0.033	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.034	0.37	0.034	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.036	0.37	0.036	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.020	0.37	0.020	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.75	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
Phenol	<0.064	0.75	0.064	mg/kg dry	1	"	"	"	"	
Pyrene	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*68.4*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*71.9*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*70.5*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*66.4*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*73.9*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*87.4*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP3 (1-2) (0903921-05) Soil Sampled: 09/02/09 14:30 Received: 09/04/09 12:00										
1,2,4-Trichlorobenzene	<0.028	0.34	0.028	mg/kg dry	1	B9I0910	09/09/09	09/10/09	EPA 8270C	
1,2-Dichlorobenzene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.040	0.70	0.040	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.025	0.70	0.025	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.036	0.70	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.036	0.70	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.094	0.70	0.094	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.060	0.70	0.060	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.045	0.70	0.045	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.040	0.70	0.040	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.036	0.70	0.036	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.038	0.70	0.038	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.41	1.7	0.41	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.077	0.70	0.077	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.042	0.70	0.042	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.11	0.70	0.11	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.028	0.70	0.028	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.10	0.70	0.10	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Aniline	<0.094	0.70	0.094	mg/kg dry	1	"	"	"	"	
Anthracene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Benzidine	<0.75	2.6	0.75	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP3 (1-2) (0903921-05) Soil Sampled: 09/02/09 14:30 Received: 09/04/09 12:00										
Benzo (k) fluoranthene	<0.032	0.34	0.032	mg/kg dry	1	B9I0910	09/09/09	09/10/09	EPA 8270C	
Benzoic acid	<0.060	0.34	0.060	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.12	0.70	0.12	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Carbazole	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Chrysene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.016	0.34	0.016	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.039	0.34	0.039	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
Fluorene	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.017	0.34	0.017	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.043	0.34	0.043	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
Isophorone	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.030	0.34	0.030	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.10	0.70	0.10	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
Phenol	<0.059	0.70	0.059	mg/kg dry	1	"	"	"	"	
Pyrene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*67.2*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*65.0*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*62.9*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*58.2*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*65.7*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*90.3*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07			
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300		Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/24/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP1 (0903921-02) Water Sampled: 09/02/09 09:50 Received: 09/04/09 12:00										
1,1,1,2-Tetrachloroethane	<0.28	1.0	0.28	ug/L	1	B9I0809	09/08/09	09/08/09	EPA 8260B	
1,1,1-Trichloroethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.28	1.0	0.28	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<0.11	1.0	0.11	ug/L	1	"	"	"	"	
1,1-Dichloroethene	<0.12	1.0	0.12	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.47	5.0	0.47	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	2.5	0.24	ug/L	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.32	5.0	0.32	ug/L	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	5.0	0.60	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
2-Butanone	<0.67	20	0.67	ug/L	1	"	"	"	"	
2-Chlorotoluene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
4-Chlorotoluene	<0.14	1.0	0.14	ug/L	1	"	"	"	"	
Acetone	<2.8	20	2.8	ug/L	1	"	"	"	"	
Allyl chloride	<0.76	5.0	0.76	ug/L	1	"	"	"	"	
Benzene	<0.093	1.0	0.093	ug/L	1	"	"	"	"	
Bromobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Bromochloromethane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Bromodichloromethane	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Bromoform	<0.50	5.0	0.50	ug/L	1	"	"	"	"	
Bromomethane	<0.95	5.0	0.95	ug/L	1	"	"	"	"	
Carbon tetrachloride	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Chlorobenzene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
Chloroethane	<0.46	2.5	0.46	ug/L	1	"	"	"	"	
Chloroform	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Chloromethane	**36**	2.5	0.37	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07	
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #: 0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported: 09/24/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP1 (0903921-02) Water Sampled: 09/02/09 09:50 Received: 09/04/09 12:00										
cis-1,3-Dichloropropene	<0.16	1.0	0.16	ug/L	1	B9I0809	09/08/09	09/08/09	EPA 8260B	
Dibromochloromethane	<0.50	2.5	0.50	ug/L	1	"	"	"	"	
Dibromomethane	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<0.31	1.0	0.31	ug/L	1	"	"	"	"	
Ethyl ether	<0.53	5.0	0.53	ug/L	1	"	"	"	"	
Ethylbenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.76	10	0.76	ug/L	1	"	"	"	"	
Isopropylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
m,p-Xylene	<0.42	2.0	0.42	ug/L	1	"	"	"	"	
Methyl isobutyl ketone	<1.1	5.0	1.1	ug/L	1	"	"	"	"	
Methyl tert-butyl ether	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
Methylene chloride	<0.65	5.0	0.65	ug/L	1	"	"	"	"	
Naphthalene	<0.40	5.0	0.40	ug/L	1	"	"	"	"	
n-Butylbenzene	<0.32	2.5	0.32	ug/L	1	"	"	"	"	
n-Propylbenzene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
o-Xylene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
sec-Butylbenzene	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Styrene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
tert-Butylbenzene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Tetrachloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Tetrahydrofuran	<0.77	20	0.77	ug/L	1	"	"	"	"	
Toluene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.29	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Vinyl chloride	<0.087	1.0	0.087	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*109*			*76.4-125 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*105*			*80-120 %*		"	"	"	"	
Surrogate: Toluene-d8	*104*			*80-125 %*		"	"	"	"	
SOC5-Dup1 (0903921-03) Water Sampled: 09/02/09 12:00 Received: 09/04/09 12:00										
1,1,1,2-Tetrachloroethane	<0.28	1.0	0.28	ug/L	1	B9I0809	09/08/09	09/08/09	EPA 8260B	
1,1,1-Trichloroethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.28	1.0	0.28	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07			
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300		Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/24/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-Dup1 (0903921-03) Water Sampled: 09/02/09 12:00 Received: 09/04/09 12:00										
1,1-Dichloroethane	<0.11	1.0	0.11	ug/L	1	B9I0809	09/08/09	09/08/09	EPA 8260B	
1,1-Dichloroethene	<0.12	1.0	0.12	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.47	5.0	0.47	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	2.5	0.24	ug/L	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.32	5.0	0.32	ug/L	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	5.0	0.60	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
2-Butanone	<0.67	20	0.67	ug/L	1	"	"	"	"	
2-Chlorotoluene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
4-Chlorotoluene	<0.14	1.0	0.14	ug/L	1	"	"	"	"	
Acetone	<2.8	20	2.8	ug/L	1	"	"	"	"	
Allyl chloride	<0.76	5.0	0.76	ug/L	1	"	"	"	"	
Benzene	<0.093	1.0	0.093	ug/L	1	"	"	"	"	
Bromobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Bromochloromethane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Bromodichloromethane	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Bromoform	<0.50	5.0	0.50	ug/L	1	"	"	"	"	
Bromomethane	<0.95	5.0	0.95	ug/L	1	"	"	"	"	
Carbon tetrachloride	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Chlorobenzene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
Chloroethane	<0.46	2.5	0.46	ug/L	1	"	"	"	"	
Chloroform	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Chloromethane	**52**	2.5	0.37	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Dibromochloromethane	<0.50	2.5	0.50	ug/L	1	"	"	"	"	
Dibromomethane	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<0.31	1.0	0.31	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07	
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #: 0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported: 09/24/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-Dup1 (0903921-03) Water Sampled: 09/02/09 12:00 Received: 09/04/09 12:00										
Ethyl ether	<0.53	5.0	0.53	ug/L	1	B9I0809	09/08/09	09/08/09	EPA 8260B	
Ethylbenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.76	10	0.76	ug/L	1	"	"	"	"	
Isopropylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
m,p-Xylene	<0.42	2.0	0.42	ug/L	1	"	"	"	"	
Methyl isobutyl ketone	<1.1	5.0	1.1	ug/L	1	"	"	"	"	
Methyl tert-butyl ether	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
Methylene chloride	<0.65	5.0	0.65	ug/L	1	"	"	"	"	
Naphthalene	<0.40	5.0	0.40	ug/L	1	"	"	"	"	
n-Butylbenzene	<0.32	2.5	0.32	ug/L	1	"	"	"	"	
n-Propylbenzene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
o-Xylene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
sec-Butylbenzene	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Styrene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
tert-Butylbenzene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Tetrachloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Tetrahydrofuran	<0.77	20	0.77	ug/L	1	"	"	"	"	
Toluene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.29	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Vinyl chloride	<0.087	1.0	0.087	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*110*			*76.4-125 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*104*			*80-120 %*		"	"	"	"	
Surrogate: Toluene-d8	*104*			*80-125 %*		"	"	"	"	
Trip Blank (0903921-06) Water Sampled: 06/08/09 00:00 Received: 09/04/09 12:00										H3b
1,1,1,2-Tetrachloroethane	<0.28	1.0	0.28	ug/L	1	B9I0809	09/08/09	09/08/09	EPA 8260B	
1,1,1-Trichloroethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.28	1.0	0.28	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<0.11	1.0	0.11	ug/L	1	"	"	"	"	
1,1-Dichloroethene	<0.12	1.0	0.12	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.47	5.0	0.47	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	2.5	0.24	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (0903921-06) Water	**Sampled: 06/08/09 00:00**		**Received: 09/04/09 12:00**							H3b
1,2,4-Trichlorobenzene	<0.32	5.0	0.32	ug/L	1	B9I0809	09/08/09	09/08/09	EPA 8260B	
1,2,4-Trimethylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	5.0	0.60	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
2-Butanone	<0.67	20	0.67	ug/L	1	"	"	"	"	
2-Chlorotoluene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
4-Chlorotoluene	<0.14	1.0	0.14	ug/L	1	"	"	"	"	
Acetone	<2.8	20	2.8	ug/L	1	"	"	"	"	
Allyl chloride	<0.76	5.0	0.76	ug/L	1	"	"	"	"	
Benzene	<0.093	1.0	0.093	ug/L	1	"	"	"	"	
Bromobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Bromochloromethane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Bromodichloromethane	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Bromoform	<0.50	5.0	0.50	ug/L	1	"	"	"	"	
Bromomethane	<0.95	5.0	0.95	ug/L	1	"	"	"	"	
Carbon tetrachloride	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Chlorobenzene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
Chloroethane	<0.46	2.5	0.46	ug/L	1	"	"	"	"	
Chloroform	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Chloromethane	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Dibromochloromethane	<0.50	2.5	0.50	ug/L	1	"	"	"	"	
Dibromomethane	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<0.31	1.0	0.31	ug/L	1	"	"	"	"	
Ethyl ether	<0.53	5.0	0.53	ug/L	1	"	"	"	"	
Ethylbenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.76	10	0.76	ug/L	1	"	"	"	"	
Isopropylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
m,p-Xylene	<0.42	2.0	0.42	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (0903921-06) Water	**Sampled: 06/08/09 00:00**		**Received: 09/04/09 12:00**							H3b
Methyl isobutyl ketone	<1.1	5.0	1.1	ug/L	1	B9I0809	09/08/09	09/08/09	EPA 8260B	
Methyl tert-butyl ether	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
Methylene chloride	<0.65	5.0	0.65	ug/L	1	"	"	"	"	
Naphthalene	<0.40	5.0	0.40	ug/L	1	"	"	"	"	
n-Butylbenzene	<0.32	2.5	0.32	ug/L	1	"	"	"	"	
n-Propylbenzene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
o-Xylene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
sec-Butylbenzene	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Styrene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
tert-Butylbenzene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Tetrachloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Tetrahydrofuran	<0.77	20	0.77	ug/L	1	"	"	"	"	
Toluene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.29	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Vinyl chloride	<0.087	1.0	0.087	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*110*			*76.4-125 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*104*			*80-120 %*		"	"	"	"	
Surrogate: Toluene-d8	*106*			*80-125 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0811 - EPA 245.1/7470A Digestion											
Blank (B9I0811-BLK1)					Prepared: 09/08/09		Analyzed: 09/21/09				
Mercury	< 0.20	0.20	0.018	ug/L							
LCS (B9I0811-BS1)					Prepared: 09/08/09		Analyzed: 09/21/09				
Mercury	2.26	0.20	0.018	ug/L	2.00		113	80-120			
LCS Dup (B9I0811-BSD1)					Prepared: 09/08/09		Analyzed: 09/21/09				
Mercury	2.16	0.20	0.018	ug/L	2.00		108	80-120	4.52	20	
Matrix Spike (B9I0811-MS1)		**Source: 0903675-01**			Prepared: 09/08/09		Analyzed: 09/21/09				
Mercury	2.14	0.20	0.018	ug/L	2.00	<0.20	107	75-125			
Matrix Spike Dup (B9I0811-MSD1)		**Source: 0903675-01**			Prepared: 09/08/09		Analyzed: 09/21/09				
Mercury	2.35	0.20	0.018	ug/L	2.00	<0.20	118	75-125	9.35	20	
Batch B9I1407 - EPA 200.7/3005A Digestion											
Blank (B9I1407-BLK1)					Prepared & Analyzed: 09/14/09						
Arsenic	< 10	10	2.0	ug/L							
Cadmium	< 1.0	1.0	0.099	ug/L							
Chromium	< 10	10	0.24	ug/L							
Copper	< 20	20	1.4	ug/L							
Lead	< 3.0	3.0	0.68	ug/L							
Nickel	< 5.0	5.0	0.28	ug/L							
Selenium	< 20	20	2.2	ug/L							
Silver	< 5.0	5.0	0.18	ug/L							
Zinc	< 20	20	4.4	ug/L							
LCS (B9I1407-BS1)					Prepared & Analyzed: 09/14/09						
Arsenic	415	10	2.0	ug/L	399		104	80-120			
Cadmium	429	1.0	0.099	ug/L	399		108	80-120			
Chromium	418	10	0.24	ug/L	399		105	80-120			
Copper	422	20	1.4	ug/L	399		106	80-120			
Lead	429	3.0	0.68	ug/L	399		108	80-120			
Nickel	423	5.0	0.28	ug/L	399		106	80-120			
Selenium	403	20	2.2	ug/L	399		101	80-120			
Silver	41.8	5.0	0.18	ug/L	39.9		105	80-120			
Zinc	422	20	4.4	ug/L	399		106	80-120			
LCS Dup (B9I1407-BSD1)					Prepared & Analyzed: 09/14/09						
Arsenic	415	10	2.0	ug/L	399		104	80-120	0.0292	20	
Cadmium	428	1.0	0.099	ug/L	399		107	80-120	0.280	20	
Chromium	416	10	0.24	ug/L	399		104	80-120	0.618	20	
Copper	418	20	1.4	ug/L	399		105	80-120	0.880	20	
Lead	427	3.0	0.68	ug/L	399		107	80-120	0.499	20	
Nickel	421	5.0	0.28	ug/L	399		105	80-120	0.612	20	

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Barr Engineering Co.	Project:	23/19-0B05.07			
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300		Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/24/09

DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1407 - EPA 200.7/3005A Digestion											
LCS Dup (B9I1407-BSD1)					Prepared & Analyzed: 09/14/09						
Selenium	406	20	2.2	ug/L	399		102	80-120	0.696	20	
Silver	41.1	5.0	0.18	ug/L	39.9		103	80-120	1.69	20	
Zinc	418	20	4.4	ug/L	399		105	80-120	0.962	20	
Matrix Spike (B9I1407-MS1)		**Source: 0903902-01**			Prepared & Analyzed: 09/14/09						
Arsenic	413	10	2.0	ug/L	399	<10	103	75-125			
Cadmium	413	1.0	0.099	ug/L	399	<1.0	104	75-125			
Chromium	418	10	0.24	ug/L	399	<10	105	75-125			
Copper	425	20	1.4	ug/L	399	<20	107	75-125			
Lead	415	3.0	0.68	ug/L	399	<3.0	104	75-125			
Nickel	414	5.0	0.28	ug/L	399	<5.0	103	75-125			
Selenium	394	20	2.2	ug/L	399	<20	97.9	75-125			
Silver	42.1	5.0	0.18	ug/L	39.9	<5.0	105	75-125			
Zinc	394	20	4.4	ug/L	399	<20	98.9	75-125			
Matrix Spike Dup (B9I1407-MSD1)		**Source: 0903902-01**			Prepared & Analyzed: 09/14/09						
Arsenic	413	10	2.0	ug/L	399	<10	103	75-125	0.0354	20	
Cadmium	409	1.0	0.099	ug/L	399	<1.0	102	75-125	1.10	20	
Chromium	403	10	0.24	ug/L	399	<10	101	75-125	3.68	20	
Copper	417	20	1.4	ug/L	399	<20	104	75-125	2.06	20	
Lead	409	3.0	0.68	ug/L	399	<3.0	103	75-125	1.31	20	
Nickel	405	5.0	0.28	ug/L	399	<5.0	101	75-125	2.24	20	
Selenium	413	20	2.2	ug/L	399	<20	103	75-125	4.80	20	
Silver	41.1	5.0	0.18	ug/L	39.9	<5.0	102	75-125	2.30	20	
Zinc	398	20	4.4	ug/L	399	<20	99.7	75-125	0.878	20	
Batch B9I2003 - EPA 200.8 Digestion											
Blank (B9I2003-BLK1)					Prepared: 09/20/09 Analyzed: 09/23/09						
Antimony	< 0.046	0.50	0.046	ug/L							
Beryllium	< 0.027	0.50	0.027	ug/L							
Thallium	< 0.0081	0.50	0.0081	ug/L							
LCS (B9I2003-BS1)					Prepared: 09/20/09 Analyzed: 09/24/09						
Antimony	23.1	0.50	0.046	ug/L	20.0		116	80-120			
Beryllium	22.4	0.50	0.027	ug/L	20.0		112	80-120			
Thallium	20.6	0.50	0.0081	ug/L	20.0		103	80-120			
LCS Dup (B9I2003-BSD1)					Prepared: 09/20/09 Analyzed: 09/23/09						
Antimony	22.1	0.50	0.046	ug/L	20.0		111	80-120	4.30	20	
Beryllium	21.9	0.50	0.027	ug/L	20.0		109	80-120	2.42	20	
Thallium	21.5	0.50	0.0081	ug/L	20.0		108	80-120	4.58	20	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2003 - EPA 200.8 Digestion											
Matrix Spike (B9I2003-MS1)		**Source: 0903921-02**			Prepared: 09/20/09		Analyzed: 09/23/09				
Antimony	15.7	0.50	0.046	ug/L	20.0	0.542	75.8	75-125			
Beryllium	4.78	0.50	0.027	ug/L	20.0	<0.50	23.9	75-125			M2
Thallium	21.7	0.50	0.0081	ug/L	20.0	<0.50	108	75-125			
Matrix Spike Dup (B9I2003-MSD1)		**Source: 0903921-02**			Prepared: 09/20/09		Analyzed: 09/23/09				
Antimony	19.0	0.50	0.046	ug/L	20.0	0.542	92.2	75-125	19.0	20	
Beryllium	4.96	0.50	0.027	ug/L	20.0	<0.50	24.8	75-125	3.76	20	M2
Thallium	21.7	0.50	0.0081	ug/L	20.0	<0.50	108	75-125	0.323	20	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0905 - EPA 7471A											
Blank (B9I0905-BLK1)					Prepared: 09/09/09		Analyzed: 09/10/09				
Mercury	< 0.10	0.10	0.0018	mg/kg wet							
LCS (B9I0905-BS1)					Prepared: 09/09/09		Analyzed: 09/10/09				
Mercury	0.217	0.10	0.0018	mg/kg wet	0.200		108	80-120			
LCS Dup (B9I0905-BSD1)					Prepared: 09/09/09		Analyzed: 09/10/09				
Mercury	0.209	0.10	0.0018	mg/kg wet	0.200		104	80-120	3.76	20	
Matrix Spike (B9I0905-MS1)		**Source: 0903907-10**			Prepared: 09/09/09		Analyzed: 09/10/09				
Mercury	0.240	0.11	0.0020	mg/kg dry	0.217	<0.11	108	75-125			
Matrix Spike Dup (B9I0905-MSD1)		**Source: 0903907-10**			Prepared: 09/09/09		Analyzed: 09/10/09				
Mercury	0.239	0.11	0.0020	mg/kg dry	0.217	<0.11	108	75-125	0.454	20	
Batch B9I1012 - EPA 3050B											
Blank (B9I1012-BLK1)					Prepared & Analyzed: 09/10/09						
Antimony	< 0.50	0.50	0.0055	mg/kg wet							
Arsenic	< 0.50	0.50	0.10	mg/kg wet							
Beryllium	< 0.25	0.25	0.011	mg/kg wet							
Cadmium	< 0.25	0.25	0.025	mg/kg wet							
Chromium	< 0.50	0.50	0.012	mg/kg wet							
Copper	< 1.0	1.0	0.070	mg/kg wet							
Lead	< 1.0	1.0	0.034	mg/kg wet							
Nickel	< 0.50	0.50	0.014	mg/kg wet							
Selenium	< 1.0	1.0	0.11	mg/kg wet							
Silver	< 0.25	0.25	0.0090	mg/kg wet							
Thallium	< 2.0	2.0	0.13	mg/kg wet							
Zinc	< 1.0	1.0	0.22	mg/kg wet							
LCS (B9I1012-BS1)					Prepared & Analyzed: 09/10/09						
Antimony	38.4	0.50	0.0055	mg/kg wet	39.9		96.2	80-120			
Arsenic	40.5	0.50	0.10	mg/kg wet	39.9		101	80-120			
Beryllium	4.16	0.25	0.011	mg/kg wet	3.99		104	80-120			
Cadmium	42.5	0.25	0.025	mg/kg wet	39.9		106	80-120			
Chromium	41.2	0.50	0.012	mg/kg wet	39.9		103	80-120			
Copper	42.5	1.0	0.070	mg/kg wet	39.9		106	80-120			
Lead	42.4	1.0	0.034	mg/kg wet	39.9		106	80-120			
Nickel	41.4	0.50	0.014	mg/kg wet	39.9		104	80-120			
Selenium	39.9	1.0	0.11	mg/kg wet	39.9		100	80-120			
Silver	4.15	0.25	0.0090	mg/kg wet	3.99		104	80-120			
Thallium	40.3	2.0	0.13	mg/kg wet	39.9		101	80-120			
Zinc	44.9	1.0	0.22	mg/kg wet	39.9		113	80-120			

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Barr Engineering Co.	Project:	23/19-0B05.07			
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300		Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/24/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1012 - EPA 3050B											
LCS Dup (B9I1012-BSD1)					Prepared & Analyzed: 09/10/09						
Antimony	39.1	0.50	0.0055	mg/kg wet	39.9		98.1	80-120	1.90	20	
Arsenic	40.2	0.50	0.10	mg/kg wet	39.9		101	80-120	0.745	20	
Beryllium	4.10	0.25	0.011	mg/kg wet	3.99		103	80-120	1.54	20	
Cadmium	41.6	0.25	0.025	mg/kg wet	39.9		104	80-120	1.94	20	
Chromium	40.7	0.50	0.012	mg/kg wet	39.9		102	80-120	1.38	20	
Copper	41.8	1.0	0.070	mg/kg wet	39.9		105	80-120	1.76	20	
Lead	41.8	1.0	0.034	mg/kg wet	39.9		105	80-120	1.35	20	
Nickel	40.8	0.50	0.014	mg/kg wet	39.9		102	80-120	1.30	20	
Selenium	39.3	1.0	0.11	mg/kg wet	39.9		98.4	80-120	1.55	20	
Silver	4.12	0.25	0.0090	mg/kg wet	3.99		103	80-120	0.558	20	
Thallium	40.2	2.0	0.13	mg/kg wet	39.9		101	80-120	0.345	20	
Zinc	41.0	1.0	0.22	mg/kg wet	39.9		103	80-120	8.99	20	
Matrix Spike (B9I1012-MS1)		**Source: 0903926-05**			Prepared & Analyzed: 09/10/09						
Antimony	34.6	0.52	0.0057	mg/kg dry	41.6	<0.52	83.3	75-125			
Arsenic	41.3	0.52	0.10	mg/kg dry	41.6	4.11	89.5	75-125			
Beryllium	4.19	0.26	0.011	mg/kg dry	4.16	0.265	94.5	75-125			
Cadmium	36.2	0.26	0.026	mg/kg dry	41.6	<0.26	86.9	75-125			
Chromium	61.3	0.52	0.012	mg/kg dry	41.6	26.7	83.3	75-125			
Copper	105	1.0	0.073	mg/kg dry	41.6	62.7	101	75-125			
Lead	44.3	1.0	0.035	mg/kg dry	41.6	7.94	87.4	75-125			
Nickel	78.7	0.52	0.015	mg/kg dry	41.6	42.8	86.3	75-125			
Selenium	34.5	1.0	0.11	mg/kg dry	41.6	<1.0	83.1	75-125			
Silver	3.84	0.26	0.0094	mg/kg dry	4.16	<0.26	92.4	75-125			
Thallium	34.5	2.1	0.14	mg/kg dry	41.6	2.45	77.1	75-125			
Zinc	85.1	1.0	0.23	mg/kg dry	41.6	46.1	93.9	75-125			
Matrix Spike Dup (B9I1012-MSD1)		**Source: 0903926-05**			Prepared & Analyzed: 09/10/09						
Antimony	34.5	0.52	0.0057	mg/kg dry	41.6	<0.52	83.1	75-125	0.291	20	
Arsenic	41.0	0.52	0.10	mg/kg dry	41.6	4.11	88.8	75-125	0.661	20	
Beryllium	4.17	0.26	0.011	mg/kg dry	4.16	0.265	93.9	75-125	0.626	20	
Cadmium	36.2	0.26	0.026	mg/kg dry	41.6	<0.26	87.0	75-125	0.0621	20	
Chromium	61.8	0.52	0.012	mg/kg dry	41.6	26.7	84.4	75-125	0.746	20	
Copper	106	1.0	0.073	mg/kg dry	41.6	62.7	104	75-125	1.23	20	
Lead	44.5	1.0	0.035	mg/kg dry	41.6	7.94	87.9	75-125	0.452	20	
Nickel	75.4	0.52	0.015	mg/kg dry	41.6	42.8	78.3	75-125	4.33	20	
Selenium	34.6	1.0	0.11	mg/kg dry	41.6	<1.0	83.3	75-125	0.252	20	
Silver	3.92	0.26	0.0094	mg/kg dry	4.16	<0.26	94.2	75-125	1.94	20	
Thallium	35.0	2.1	0.14	mg/kg dry	41.6	2.45	78.4	75-125	1.48	20	
Zinc	85.2	1.0	0.23	mg/kg dry	41.6	46.1	94.2	75-125	0.142	20	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

PERCENT SOLIDS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0806 - General Preparation											
Duplicate (B9I0806-DUP1)		**Source: 0903879-01**			Prepared & Analyzed: 09/08/09						
% Solids	91.0			%		91.0			0.00	20	
Duplicate (B9I0806-DUP2)		**Source: 0903884-02**			Prepared & Analyzed: 09/08/09						
% Solids	88.0			%		87.0			1.14	20	
Duplicate (B9I0806-DUP3)		**Source: 0903903-03**			Prepared & Analyzed: 09/08/09						
% Solids	86.0			%		87.0			1.16	20	
Duplicate (B9I0806-DUP4)		**Source: 0903921-05**			Prepared & Analyzed: 09/08/09						
% Solids	96.0			%		96.0			0.00	20	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0803 - EPA 3510C (Sep Funnel)											
Blank (B9I0803-BLK1)					Prepared & Analyzed: 09/08/09						
1,2,4-Trichlorobenzene	< 0.19	10	0.19	ug/L							
1,2-Dichlorobenzene	< 0.23	10	0.23	ug/L							
1,2-Diphenylhydrazine as Azobenzene	< 0.24	10	0.24	ug/L							
1,3-Dichlorobenzene	< 0.21	10	0.21	ug/L							
1,4-Dichlorobenzene	< 0.22	10	0.22	ug/L							
2,3,4,6-Tetrachlorophenol	< 0.61	10	0.61	ug/L							
2,4,5-Trichlorophenol	< 0.80	10	0.80	ug/L							
2,4,6-Trichlorophenol	< 0.48	10	0.48	ug/L							
2,4-Dichlorophenol	< 0.47	10	0.47	ug/L							
2,4-Dimethylphenol	< 1.6	10	1.6	ug/L							
2,4-Dinitrophenol	< 1.0	10	1.0	ug/L							
2,4-Dinitrotoluene	< 0.33	10	0.33	ug/L							
2,6-Dichlorophenol	< 0.48	10	0.48	ug/L							
2,6-Dinitrotoluene	< 0.36	10	0.36	ug/L							
2-Chloronaphthalene	< 0.28	10	0.28	ug/L							
2-Chlorophenol	< 0.45	10	0.45	ug/L							
2-Methylnaphthalene	< 0.66	10	0.66	ug/L							
2-Methylphenol	< 0.63	10	0.63	ug/L							
2-Nitroaniline	< 0.72	10	0.72	ug/L							
2-Nitrophenol	< 0.90	10	0.90	ug/L							
3,3´-Dichlorobenzidine	< 7.3	25	7.3	ug/L							
3-Nitroaniline	< 1.2	10	1.2	ug/L							
4,6-Dinitro-2-methylphenol	< 0.65	10	0.65	ug/L							
4-Bromophenyl phenyl ether	< 0.17	10	0.17	ug/L							
4-Chloro-3-methylphenol	< 0.55	10	0.55	ug/L							
4-Chloroaniline	< 2.3	10	2.3	ug/L							
4-Chlorophenyl phenyl ether	< 0.25	10	0.25	ug/L							
4-Methylphenol	< 0.79	10	0.79	ug/L							
4-Nitroaniline	< 0.59	10	0.59	ug/L							
4-Nitrophenol	< 1.2	10	1.2	ug/L							
Acenaphthene	< 0.36	10	0.36	ug/L							
Acenaphthylene	< 0.25	10	0.25	ug/L							
Aniline	< 2.2	10	2.2	ug/L							
Anthracene	< 0.37	10	0.37	ug/L							
Benzidine	< 18	100	18	ug/L							
Benzo (a) anthracene	< 0.37	10	0.37	ug/L							
Benzo (a) pyrene	< 0.29	10	0.29	ug/L							
Benzo (b) fluoranthene	< 0.22	10	0.22	ug/L							
Benzo (g,h,i) perylene	< 0.26	10	0.26	ug/L							

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0803 - EPA 3510C (Sep Funnel)											
Blank (B9I0803-BLK1)					Prepared & Analyzed: 09/08/09						
Benzo (k) fluoranthene	< 0.31	10	0.31	ug/L							
Benzoic acid	< 1.2	10	1.2	ug/L							
Benzyl alcohol	< 0.54	10	0.54	ug/L							
Bis(2-chloroethoxy)methane	< 0.18	10	0.18	ug/L							
Bis(2-chloroethyl)ether	< 0.17	10	0.17	ug/L							
Bis(2-chloroisopropyl)ether	< 0.19	10	0.19	ug/L							
Bis(2-ethylhexyl)phthalate	< 0.43	10	0.43	ug/L							
Butyl benzyl phthalate	< 0.37	10	0.37	ug/L							
Carbazole	< 0.26	10	0.26	ug/L							
Chrysene	< 0.27	10	0.27	ug/L							
Dibenz (a,h) anthracene	< 0.23	10	0.23	ug/L							
Dibenzofuran	< 0.39	10	0.39	ug/L							
Diethyl phthalate	< 0.23	10	0.23	ug/L							
Dimethyl phthalate	< 0.24	10	0.24	ug/L							
Di-n-butyl phthalate	< 0.28	10	0.28	ug/L							
Di-n-octyl phthalate	< 0.38	10	0.38	ug/L							
Fluoranthene	< 0.39	10	0.39	ug/L							
Fluorene	< 0.40	10	0.40	ug/L							
Hexachlorobenzene	< 0.20	10	0.20	ug/L							
Hexachlorobutadiene	< 0.26	10	0.26	ug/L							
Hexachlorocyclopentadiene	< 0.31	10	0.31	ug/L							
Hexachloroethane	< 0.31	10	0.31	ug/L							
Indeno (1,2,3-cd) pyrene	< 0.31	10	0.31	ug/L							
Isophorone	< 0.23	10	0.23	ug/L							
Naphthalene	< 0.37	10	0.37	ug/L							
Nitrobenzene	< 0.39	10	0.39	ug/L							
N-Nitrosodimethylamine	< 0.95	10	0.95	ug/L							
N-Nitrosodi-n-propylamine	< 0.21	10	0.21	ug/L							
N-Nitrosodiphenylamine	< 0.23	10	0.23	ug/L							
Pentachlorophenol	< 0.59	10	0.59	ug/L							
Phenanthrene	< 0.39	10	0.39	ug/L							
Phenol	< 0.57	10	0.57	ug/L							
Pyrene	< 0.47	10	0.47	ug/L							
Surrogate: 2,4,6-Tribromophenol	*102*			*ug/L*	*100*		*102*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*68.8*			*ug/L*	*100*		*68.8*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*70.0*			*ug/L*	*100*		*70.0*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*80.3*			*ug/L*	*100*		*80.3*	*47.4-97.8*			
Surrogate: Phenol-d6	*63.2*			*ug/L*	*100*		*63.2*	*30-91.5*			
Surrogate: Terphenyl-d14	*69.5*			*ug/L*	*100*		*69.5*	*30-108*			

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0803 - EPA 3510C (Sep Funnel)											
LCS (B9I0803-BS1)					Prepared & Analyzed: 09/08/09						
1,2,4-Trichlorobenzene	62.5	10	0.19	ug/L	100		62.5	48.2-88.3			
1,4-Dichlorobenzene	55.2	10	0.22	ug/L	100		55.2	42.8-82.2			
2,4-Dinitrotoluene	94.1	10	0.33	ug/L	100		94.1	64.6-98.9			
2-Chlorophenol	73.1	10	0.45	ug/L	100		73.1	56.5-88.1			
4-Chloro-3-methylphenol	77.1	10	0.55	ug/L	100		77.1	63.4-95.2			
4-Nitrophenol	75.1	10	1.2	ug/L	100		75.1	51.3-90.6			
Anthracene	75.0	10	0.37	ug/L	100		75.0	66.7-92.8			
Benzo (a) anthracene	83.1	10	0.37	ug/L	100		83.1	72.7-97.2			
Benzo (a) pyrene	76.4	10	0.29	ug/L	100		76.4	66.4-101			
Chrysene	82.1	10	0.27	ug/L	100		82.1	71.5-98.1			
Fluoranthene	77.3	10	0.39	ug/L	100		77.3	68.8-94			
Fluorene	72.9	10	0.40	ug/L	100		72.9	64.2-94.4			
N-Nitrosodi-n-propylamine	69.5	10	0.21	ug/L	100		69.5	63.6-92.8			
Pentachlorophenol	88.2	10	0.59	ug/L	100		88.2	60.2-101			
Phenanthrene	76.3	10	0.39	ug/L	100		76.3	68.1-94.8			
Phenol	52.8	10	0.57	ug/L	100		52.8	39.6-71			
Surrogate: 2,4,6-Tribromophenol	*96.8*			*ug/L*	*100*		*96.8*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*66.9*			*ug/L*	*100*		*66.9*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*67.0*			*ug/L*	*100*		*67.0*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*77.8*			*ug/L*	*100*		*77.8*	*47.4-97.8*			
Surrogate: Phenol-d6	*61.1*			*ug/L*	*100*		*61.1*	*30-91.5*			
Surrogate: Terphenyl-d14	*76.7*			*ug/L*	*100*		*76.7*	*30-108*			
Matrix Spike (B9I0803-MS1)		**Source: 0903907-22**			Prepared & Analyzed: 09/08/09						
1,2,4-Trichlorobenzene	66.8	9.3	0.18	ug/L	92.6	<9.3	72.2	43.8-87.4			
1,4-Dichlorobenzene	60.3	9.3	0.20	ug/L	92.6	<9.3	65.2	43.7-78.7			
2,4-Dinitrotoluene	89.0	9.3	0.31	ug/L	92.6	<9.3	96.1	52.8-100			
2-Chlorophenol	66.5	9.3	0.42	ug/L	92.6	<9.3	71.8	30.1-95			
4-Chloro-3-methylphenol	71.9	9.3	0.51	ug/L	92.6	<9.3	77.6	44.8-98.7			
4-Nitrophenol	66.7	9.3	1.1	ug/L	92.6	<9.3	72.0	32.5-99.6			
Anthracene	70.8	9.3	0.34	ug/L	92.6	<9.3	76.4	44.8-97.6			
Benzo (a) anthracene	78.2	9.3	0.34	ug/L	92.6	<9.3	84.5	30-115			
Benzo (a) pyrene	71.7	9.3	0.27	ug/L	92.6	<9.3	77.4	30-110			
Chrysene	77.5	9.3	0.25	ug/L	92.6	<9.3	83.8	30-115			
Fluoranthene	72.9	9.3	0.36	ug/L	92.6	<9.3	78.7	37.4-103			
Fluorene	68.8	9.3	0.37	ug/L	92.6	<9.3	74.3	49.6-92.1			
N-Nitrosodi-n-propylamine	65.5	9.3	0.19	ug/L	92.6	<9.3	70.8	44.9-100			
Pentachlorophenol	80.7	9.3	0.55	ug/L	92.6	<9.3	87.2	31.2-123			
Phenanthrene	71.5	9.3	0.36	ug/L	92.6	<9.3	77.2	47-99.1			
Phenol	46.2	9.3	0.53	ug/L	92.6	<9.3	49.9	30-79.5			

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0803 - EPA 3510C (Sep Funnel)											
Matrix Spike (B9I0803-MS1)		**Source: 0903907-22**			Prepared & Analyzed: 09/08/09						
Surrogate: 2,4,6-Tribromophenol	*89.5*			*ug/L*	*92.6*		*96.7*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*64.8*			*ug/L*	*92.6*		*69.9*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*58.5*			*ug/L*	*92.6*		*63.2*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*73.1*			*ug/L*	*92.6*		*78.9*	*47.4-97.8*			
Surrogate: Phenol-d6	*53.0*			*ug/L*	*92.6*		*57.3*	*30-91.5*			
Surrogate: Terphenyl-d14	*71.8*			*ug/L*	*92.6*		*77.5*	*30-108*			
Matrix Spike Dup (B9I0803-MSD1)		**Source: 0903907-22**			Prepared & Analyzed: 09/08/09						
1,2,4-Trichlorobenzene	65.0	9.3	0.18	ug/L	92.6	<9.3	70.2	43.8-87.4	2.83	28.2	
1,4-Dichlorobenzene	57.4	9.3	0.20	ug/L	92.6	<9.3	62.0	43.7-78.7	5.02	25	
2,4-Dinitrotoluene	89.2	9.3	0.31	ug/L	92.6	<9.3	96.3	52.8-100	0.180	15	
2-Chlorophenol	64.8	9.3	0.42	ug/L	92.6	<9.3	70.0	30.1-95	2.64	27.5	
4-Chloro-3-methylphenol	71.7	9.3	0.51	ug/L	92.6	<9.3	77.4	44.8-98.7	0.241	27.6	
4-Nitrophenol	66.3	9.3	1.1	ug/L	92.6	<9.3	71.6	32.5-99.6	0.511	35	
Anthracene	69.3	9.3	0.34	ug/L	92.6	<9.3	74.9	44.8-97.6	2.06	21	
Benzo (a) anthracene	77.8	9.3	0.34	ug/L	92.6	<9.3	84.0	30-115	0.522	33.7	
Benzo (a) pyrene	71.1	9.3	0.27	ug/L	92.6	<9.3	76.8	30-110	0.796	33.8	
Chrysene	77.5	9.3	0.25	ug/L	92.6	<9.3	83.7	30-115	0.0920	35.1	
Fluoranthene	71.3	9.3	0.36	ug/L	92.6	<9.3	77.0	37.4-103	2.13	29.1	
Fluorene	68.3	9.3	0.37	ug/L	92.6	<9.3	73.8	49.6-92.1	0.632	19.7	
N-Nitrosodi-n-propylamine	64.0	9.3	0.19	ug/L	92.6	<9.3	69.1	44.9-100	2.41	18.6	
Pentachlorophenol	79.5	9.3	0.55	ug/L	92.6	<9.3	85.8	31.2-123	1.53	32.2	
Phenanthrene	70.2	9.3	0.36	ug/L	92.6	<9.3	75.8	47-99.1	1.85	18.4	
Phenol	44.7	9.3	0.53	ug/L	92.6	<9.3	48.3	30-79.5	3.38	33.6	
Surrogate: 2,4,6-Tribromophenol	*88.2*			*ug/L*	*92.6*		*95.3*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*64.1*			*ug/L*	*92.6*		*69.3*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*56.7*			*ug/L*	*92.6*		*61.2*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*71.6*			*ug/L*	*92.6*		*77.3*	*47.4-97.8*			
Surrogate: Phenol-d6	*51.0*			*ug/L*	*92.6*		*55.1*	*30-91.5*			
Surrogate: Terphenyl-d14	*71.4*			*ug/L*	*92.6*		*77.1*	*30-108*			

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0910 - EPA 3545 ASE Extraction											
Blank (B9I0910-BLK1)					Prepared: 09/09/09 Analyzed: 09/11/09						
1,2,4-Trichlorobenzene	< 0.027	0.33	0.027	mg/kg wet							
1,2-Dichlorobenzene	< 0.025	0.33	0.025	mg/kg wet							
1,2-Diphenylhydrazine as Azobenzene	< 0.020	0.33	0.020	mg/kg wet							
1,3-Dichlorobenzene	< 0.023	0.33	0.023	mg/kg wet							
1,4-Dichlorobenzene	< 0.024	0.33	0.024	mg/kg wet							
2,3,4,6-Tetrachlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2,4,5-Trichlorophenol	< 0.024	0.67	0.024	mg/kg wet							
2,4,6-Trichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dimethylphenol	< 0.090	0.67	0.090	mg/kg wet							
2,4-Dinitrophenol	< 0.058	0.67	0.058	mg/kg wet							
2,4-Dinitrotoluene	< 0.021	0.33	0.021	mg/kg wet							
2,6-Dichlorophenol	< 0.043	0.67	0.043	mg/kg wet							
2,6-Dinitrotoluene	< 0.019	0.33	0.019	mg/kg wet							
2-Chloronaphthalene	< 0.019	0.33	0.019	mg/kg wet							
2-Chlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2-Methylnaphthalene	< 0.028	0.33	0.028	mg/kg wet							
2-Methylphenol	< 0.035	0.67	0.035	mg/kg wet							
2-Nitroaniline	< 0.020	0.33	0.020	mg/kg wet							
2-Nitrophenol	< 0.036	0.67	0.036	mg/kg wet							
3,3´-Dichlorobenzidine	< 0.39	1.6	0.39	mg/kg wet							
3-Nitroaniline	< 0.033	0.33	0.033	mg/kg wet							
4,6-Dinitro-2-methylphenol	< 0.074	0.67	0.074	mg/kg wet							
4-Bromophenyl phenyl ether	< 0.017	0.33	0.017	mg/kg wet							
4-Chloro-3-methylphenol	< 0.040	0.67	0.040	mg/kg wet							
4-Chloroaniline	< 0.11	0.67	0.11	mg/kg wet							
4-Chlorophenyl phenyl ether	< 0.023	0.33	0.023	mg/kg wet							
4-Methylphenol	< 0.027	0.67	0.027	mg/kg wet							
4-Nitroaniline	< 0.023	0.33	0.023	mg/kg wet							
4-Nitrophenol	< 0.099	0.67	0.099	mg/kg wet							
Acenaphthene	< 0.028	0.33	0.028	mg/kg wet							
Acenaphthylene	< 0.023	0.33	0.023	mg/kg wet							
Aniline	< 0.090	0.67	0.090	mg/kg wet							
Anthracene	< 0.025	0.33	0.025	mg/kg wet							
Benzidine	< 0.72	2.5	0.72	mg/kg wet							
Benzo (a) anthracene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (a) pyrene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (b) fluoranthene	< 0.034	0.33	0.034	mg/kg wet							
Benzo (g,h,i) perylene	< 0.030	0.33	0.030	mg/kg wet							

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0910 - EPA 3545 ASE Extraction											
Blank (B9I0910-BLK1)					Prepared: 09/09/09 Analyzed: 09/11/09						
Benzo (k) fluoranthene	< 0.031	0.33	0.031	mg/kg wet							
Benzoic acid	< 0.058	0.33	0.058	mg/kg wet							
Benzyl alcohol	< 0.12	0.67	0.12	mg/kg wet							
Bis(2-chloroethoxy)methane	< 0.021	0.33	0.021	mg/kg wet							
Bis(2-chloroethyl)ether	< 0.024	0.33	0.024	mg/kg wet							
Bis(2-chloroisopropyl)ether	< 0.022	0.33	0.022	mg/kg wet							
Bis(2-ethylhexyl)phthalate	< 0.020	0.33	0.020	mg/kg wet							
Butyl benzyl phthalate	< 0.021	0.33	0.021	mg/kg wet							
Carbazole	< 0.022	0.33	0.022	mg/kg wet							
Chrysene	< 0.033	0.33	0.033	mg/kg wet							
Dibenz (a,h) anthracene	< 0.034	0.33	0.034	mg/kg wet							
Dibenzofuran	< 0.019	0.33	0.019	mg/kg wet							
Diethyl phthalate	< 0.015	0.33	0.015	mg/kg wet							
Dimethyl phthalate	< 0.018	0.33	0.018	mg/kg wet							
Di-n-butyl phthalate	< 0.037	0.33	0.037	mg/kg wet							
Di-n-octyl phthalate	< 0.025	0.33	0.025	mg/kg wet							
Fluoranthene	< 0.024	0.33	0.024	mg/kg wet							
Fluorene	< 0.018	0.33	0.018	mg/kg wet							
Hexachlorobenzene	< 0.016	0.33	0.016	mg/kg wet							
Hexachlorobutadiene	< 0.033	0.33	0.033	mg/kg wet							
Hexachlorocyclopentadiene	< 0.041	0.33	0.041	mg/kg wet							
Hexachloroethane	< 0.028	0.33	0.028	mg/kg wet							
Indeno (1,2,3-cd) pyrene	< 0.032	0.33	0.032	mg/kg wet							
Isophorone	< 0.017	0.33	0.017	mg/kg wet							
Naphthalene	< 0.029	0.33	0.029	mg/kg wet							
Nitrobenzene	< 0.030	0.33	0.030	mg/kg wet							
N-Nitrosodimethylamine	< 0.032	0.33	0.032	mg/kg wet							
N-Nitrosodi-n-propylamine	< 0.025	0.33	0.025	mg/kg wet							
N-Nitrosodiphenylamine	< 0.018	0.33	0.018	mg/kg wet							
Pentachlorophenol	< 0.096	0.67	0.096	mg/kg wet							
Phenanthrene	< 0.019	0.33	0.019	mg/kg wet							
Phenol	< 0.057	0.67	0.057	mg/kg wet							
Pyrene	< 0.023	0.33	0.023	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	*4.23*			*mg/kg wet*	*6.67*		*63.5*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*4.43*			*mg/kg wet*	*6.67*		*66.4*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*4.54*			*mg/kg wet*	*6.67*		*68.1*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.29*			*mg/kg wet*	*6.67*		*64.3*	*49.1-86.9*			
Surrogate: Phenol-d6	*4.62*			*mg/kg wet*	*6.67*		*69.3*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.78*			*mg/kg wet*	*6.67*		*86.6*	*43.6-112*			

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0910 - EPA 3545 ASE Extraction											
LCS (B9I0910-BS1)					Prepared: 09/09/09		Analyzed: 09/11/09				
1,2,4-Trichlorobenzene	4.34	0.33	0.027	mg/kg wet	6.67		65.1	50.7-82.1			
1,4-Dichlorobenzene	4.17	0.33	0.024	mg/kg wet	6.67		62.5	44-77			
2,4-Dinitrotoluene	4.81	0.33	0.021	mg/kg wet	6.67		72.2	56.7-81.7			
2-Chlorophenol	4.61	0.67	0.038	mg/kg wet	6.67		69.1	52.3-88.2			
4-Chloro-3-methylphenol	4.85	0.67	0.040	mg/kg wet	6.67		72.7	53.4-87			
4-Nitrophenol	5.12	0.67	0.099	mg/kg wet	6.67		76.8	55.7-87.1			
Anthracene	5.75	0.33	0.025	mg/kg wet	6.67		86.2	65.3-92			
Benzo (a) anthracene	5.33	0.33	0.027	mg/kg wet	6.67		79.9	69-95.3			
Benzo (a) pyrene	5.56	0.33	0.027	mg/kg wet	6.67		83.5	68.5-98.2			
Chrysene	5.21	0.33	0.033	mg/kg wet	6.67		78.1	68.6-94.2			
Fluoranthene	5.76	0.33	0.024	mg/kg wet	6.67		86.4	64.3-94.6			
Fluorene	5.20	0.33	0.018	mg/kg wet	6.67		78.0	61.9-89.4			
N-Nitrosodi-n-propylamine	4.88	0.33	0.025	mg/kg wet	6.67		73.2	55.5-91.1			
Pentachlorophenol	3.67	0.67	0.096	mg/kg wet	6.67		55.1	54.7-74.6			
Phenanthrene	5.56	0.33	0.019	mg/kg wet	6.67		83.4	64.3-90.9			
Phenol	4.85	0.67	0.057	mg/kg wet	6.67		72.7	49.7-85.4			
Surrogate: 2,4,6-Tribromophenol	*4.56*			*mg/kg wet*	*6.67*		*68.4*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*5.00*			*mg/kg wet*	*6.67*		*74.9*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*5.00*			*mg/kg wet*	*6.67*		*75.1*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.79*			*mg/kg wet*	*6.67*		*71.8*	*49.1-86.9*			
Surrogate: Phenol-d6	*5.20*			*mg/kg wet*	*6.67*		*77.9*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*4.82*			*mg/kg wet*	*6.67*		*72.3*	*43.6-112*			
Matrix Spike (B9I0910-MS1)		**Source: 0903907-21**			Prepared: 09/09/09		Analyzed: 09/11/09				
1,2,4-Trichlorobenzene	4.25	0.35	0.028	mg/kg dry	7.07	<0.35	60.1	51-77.5			
1,4-Dichlorobenzene	3.81	0.35	0.025	mg/kg dry	7.07	<0.35	53.8	41.7-73.4			
2,4-Dinitrotoluene	5.59	0.35	0.022	mg/kg dry	7.07	<0.35	79.0	50-84.8			
2-Chlorophenol	4.39	0.71	0.040	mg/kg dry	7.07	<0.71	62.1	47.8-90.8			
4-Chloro-3-methylphenol	5.25	0.71	0.042	mg/kg dry	7.07	<0.71	74.2	48.4-95.1			
4-Nitrophenol	6.13	0.71	0.10	mg/kg dry	7.07	<0.71	86.7	44-105			
Anthracene	6.70	0.35	0.026	mg/kg dry	7.07	<0.35	94.7	60.2-97.3			
Benzo (a) anthracene	6.32	0.35	0.028	mg/kg dry	7.07	<0.35	89.3	59.8-102			
Benzo (a) pyrene	6.82	0.35	0.028	mg/kg dry	7.07	<0.35	96.3	57.2-105			
Chrysene	6.13	0.35	0.035	mg/kg dry	7.07	<0.35	86.7	59.2-102			
Fluoranthene	6.71	0.35	0.025	mg/kg dry	7.07	<0.35	94.9	50.4-108			
Fluorene	5.86	0.35	0.019	mg/kg dry	7.07	<0.35	82.8	57.8-94.4			
N-Nitrosodi-n-propylamine	4.99	0.35	0.026	mg/kg dry	7.07	<0.35	70.5	46.2-96.2			
Pentachlorophenol	4.62	0.71	0.10	mg/kg dry	7.07	<0.71	65.3	53.6-80.4			
Phenanthrene	6.49	0.35	0.020	mg/kg dry	7.07	<0.35	91.8	58.4-97.5			
Phenol	4.74	0.71	0.060	mg/kg dry	7.07	<0.71	67.0	44-88.5			

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0910 - EPA 3545 ASE Extraction											
Matrix Spike (B9I0910-MS1)		**Source: 0903907-21**			Prepared: 09/09/09		Analyzed: 09/11/09				
Surrogate: 2,4,6-Tribromophenol	*5.18*			*mg/kg dry*	*7.07*		*73.3*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*5.31*			*mg/kg dry*	*7.07*		*75.0*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*4.70*			*mg/kg dry*	*7.07*		*66.4*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.74*			*mg/kg dry*	*7.07*		*67.0*	*49.1-86.9*			
Surrogate: Phenol-d6	*5.08*			*mg/kg dry*	*7.07*		*71.8*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.67*			*mg/kg dry*	*7.07*		*80.1*	*43.6-112*			
Matrix Spike Dup (B9I0910-MSD1)		**Source: 0903907-21**			Prepared: 09/09/09		Analyzed: 09/11/09				
1,2,4-Trichlorobenzene	4.65	0.35	0.028	mg/kg dry	7.07	<0.35	65.8	51-77.5	8.99	15.7	
1,4-Dichlorobenzene	4.31	0.35	0.025	mg/kg dry	7.07	<0.35	61.0	41.7-73.4	12.4	14.7	
2,4-Dinitrotoluene	5.33	0.35	0.022	mg/kg dry	7.07	<0.35	75.4	50-84.8	4.83	20.5	
2-Chlorophenol	4.86	0.71	0.040	mg/kg dry	7.07	<0.71	68.7	47.8-90.8	10.1	19.8	
4-Chloro-3-methylphenol	5.19	0.71	0.042	mg/kg dry	7.07	<0.71	73.4	48.4-95.1	1.17	18.7	
4-Nitrophenol	5.70	0.71	0.10	mg/kg dry	7.07	<0.71	80.6	44-105	7.29	30.9	
Anthracene	6.31	0.35	0.026	mg/kg dry	7.07	<0.35	89.3	60.2-97.3	5.92	15.1	
Benzo (a) anthracene	6.01	0.35	0.028	mg/kg dry	7.07	<0.35	85.0	59.8-102	4.96	19.6	
Benzo (a) pyrene	6.32	0.35	0.028	mg/kg dry	7.07	<0.35	89.3	57.2-105	7.62	19.4	
Chrysene	5.81	0.35	0.035	mg/kg dry	7.07	<0.35	82.2	59.2-102	5.38	19.6	
Fluoranthene	6.22	0.35	0.025	mg/kg dry	7.07	<0.35	88.0	50.4-108	7.62	21	
Fluorene	5.70	0.35	0.019	mg/kg dry	7.07	<0.35	80.6	57.8-94.4	2.76	15.8	
N-Nitrosodi-n-propylamine	5.33	0.35	0.026	mg/kg dry	7.07	<0.35	75.5	46.2-96.2	6.74	17.1	
Pentachlorophenol	4.02	0.71	0.10	mg/kg dry	7.07	<0.71	56.9	53.6-80.4	13.7	22.4	
Phenanthrene	6.14	0.35	0.020	mg/kg dry	7.07	<0.35	86.9	58.4-97.5	5.53	14.3	
Phenol	5.15	0.71	0.060	mg/kg dry	7.07	<0.71	72.9	44-88.5	8.37	21.5	
Surrogate: 2,4,6-Tribromophenol	*4.89*			*mg/kg dry*	*7.07*		*69.2*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*5.48*			*mg/kg dry*	*7.07*		*77.6*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*5.28*			*mg/kg dry*	*7.07*		*74.7*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*5.24*			*mg/kg dry*	*7.07*		*74.2*	*49.1-86.9*			
Surrogate: Phenol-d6	*5.53*			*mg/kg dry*	*7.07*		*78.3*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.44*			*mg/kg dry*	*7.07*		*76.9*	*43.6-112*			

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0809 - EPA 5030 Water (Purge and Trap)											
Blank (B9I0809-BLK1)					Prepared & Analyzed: 09/08/09						
1,1,1,2-Tetrachloroethane	< 0.28	1.0	0.28	ug/L							
1,1,1-Trichloroethane	< 0.17	1.0	0.17	ug/L							
1,1,2,2-Tetrachloroethane	< 0.13	1.0	0.13	ug/L							
1,1,2-Trichloroethane	< 0.19	1.0	0.19	ug/L							
1,1,2-Trichlorotrifluoroethane	< 0.28	1.0	0.28	ug/L							
1,1-Dichloroethane	< 0.11	1.0	0.11	ug/L							
1,1-Dichloroethene	< 0.12	1.0	0.12	ug/L							
1,1-Dichloropropene	< 0.15	1.0	0.15	ug/L							
1,2,3-Trichlorobenzene	< 0.47	5.0	0.47	ug/L							
1,2,3-Trichloropropane	< 0.24	2.5	0.24	ug/L							
1,2,4-Trichlorobenzene	< 0.32	5.0	0.32	ug/L							
1,2,4-Trimethylbenzene	< 0.17	1.0	0.17	ug/L							
1,2-Dibromo-3-chloropropane	< 0.60	5.0	0.60	ug/L							
1,2-Dibromoethane (EDB)	< 0.37	2.5	0.37	ug/L							
1,2-Dichlorobenzene	< 0.16	1.0	0.16	ug/L							
1,2-Dichloroethane	< 0.18	1.0	0.18	ug/L							
1,2-Dichloropropane	< 0.21	1.0	0.21	ug/L							
1,3,5-Trimethylbenzene	< 0.18	1.0	0.18	ug/L							
1,3-Dichlorobenzene	< 0.21	1.0	0.21	ug/L							
1,3-Dichloropropane	< 0.15	1.0	0.15	ug/L							
1,4-Dichlorobenzene	< 0.17	1.0	0.17	ug/L							
2,2-Dichloropropane	< 0.58	5.0	0.58	ug/L							
2-Butanone	< 0.67	20	0.67	ug/L							
2-Chlorotoluene	< 0.17	1.0	0.17	ug/L							
4-Chlorotoluene	< 0.14	1.0	0.14	ug/L							
Acetone	< 2.8	20	2.8	ug/L							
Allyl chloride	< 0.76	5.0	0.76	ug/L							
Benzene	< 0.093	1.0	0.093	ug/L							
Bromobenzene	< 0.17	1.0	0.17	ug/L							
Bromochloromethane	< 0.21	1.0	0.21	ug/L							
Bromodichloromethane	< 0.22	1.0	0.22	ug/L							
Bromoform	< 0.50	5.0	0.50	ug/L							
Bromomethane	< 0.95	5.0	0.95	ug/L							
Carbon tetrachloride	< 0.16	1.0	0.16	ug/L							
Chlorobenzene	< 0.15	1.0	0.15	ug/L							
Chloroethane	< 0.46	2.5	0.46	ug/L							
Chloroform	< 0.19	1.0	0.19	ug/L							
Chloromethane	< 0.37	2.5	0.37	ug/L							
cis-1,2-Dichloroethene	< 0.19	1.0	0.19	ug/L							

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0809 - EPA 5030 Water (Purge and Trap)											
Blank (B9I0809-BLK1)					Prepared & Analyzed: 09/08/09						
cis-1,3-Dichloropropene	< 0.16	1.0	0.16	ug/L							
Dibromochloromethane	< 0.50	2.5	0.50	ug/L							
Dibromomethane	< 0.30	2.5	0.30	ug/L							
Dichlorodifluoromethane	< 0.58	5.0	0.58	ug/L							
Dichlorofluoromethane	< 0.31	1.0	0.31	ug/L							
Ethyl ether	< 0.53	5.0	0.53	ug/L							
Ethylbenzene	< 0.21	1.0	0.21	ug/L							
Hexachlorobutadiene	< 0.76	10	0.76	ug/L							
Isopropylbenzene	< 0.17	1.0	0.17	ug/L							
m,p-Xylene	< 0.42	2.0	0.42	ug/L							
Methyl isobutyl ketone	< 1.1	5.0	1.1	ug/L							
Methyl tert-butyl ether	< 0.13	1.0	0.13	ug/L							
Methylene chloride	< 0.65	5.0	0.65	ug/L							
Naphthalene	< 0.40	5.0	0.40	ug/L							
n-Butylbenzene	< 0.32	2.5	0.32	ug/L							
n-Propylbenzene	< 0.13	1.0	0.13	ug/L							
o-Xylene	< 0.18	1.0	0.18	ug/L							
p-Isopropyltoluene	< 0.30	2.5	0.30	ug/L							
sec-Butylbenzene	< 0.22	1.0	0.22	ug/L							
Styrene	< 0.13	1.0	0.13	ug/L							
tert-Butylbenzene	< 0.19	1.0	0.19	ug/L							
Tetrachloroethene	< 0.20	1.0	0.20	ug/L							
Tetrahydrofuran	< 0.77	20	0.77	ug/L							
Toluene	< 0.21	1.0	0.21	ug/L							
trans-1,2-Dichloroethene	< 0.29	1.0	0.29	ug/L							
trans-1,3-Dichloropropene	< 0.17	1.0	0.17	ug/L							
Trichloroethene	< 0.20	1.0	0.20	ug/L							
Trichlorofluoromethane	< 0.17	1.0	0.17	ug/L							
Vinyl chloride	< 0.087	1.0	0.087	ug/L							
Surrogate: 4-Bromofluorobenzene	*56.7*			*ug/L*	*50.0*		*113*	*76.4-125*			
Surrogate: Dibromofluoromethane	*52.7*			*ug/L*	*50.0*		*105*	*80-120*			
Surrogate: Toluene-d8	*53.5*			*ug/L*	*50.0*		*107*	*80-125*			
LCS (B9I0809-BS1)					Prepared & Analyzed: 09/08/09						
1,1,2,2-Tetrachloroethane	50.2	1.0	0.13	ug/L	50.0		100	80-120			
1,1-Dichloroethane	53.0	1.0	0.11	ug/L	50.0		106	76.6-120			
1,1-Dichloroethene	53.3	1.0	0.12	ug/L	50.0		107	75.9-120			
1,3,5-Trimethylbenzene	46.0	1.0	0.18	ug/L	50.0		92.0	80-120			
1,4-Dichlorobenzene	49.2	1.0	0.17	ug/L	50.0		98.5	75-125			
2-Chlorotoluene	46.0	1.0	0.17	ug/L	50.0		91.9	80-120			

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0809 - EPA 5030 Water (Purge and Trap)											
LCS (B9I0809-BS1)					Prepared & Analyzed: 09/08/09						
Benzene	52.1	1.0	0.093	ug/L	50.0		104	80-120			
Bromoform	52.6	5.0	0.50	ug/L	50.0		105	75.4-125			
Chlorobenzene	51.3	1.0	0.15	ug/L	50.0		103	80-120			
Chloroform	52.2	1.0	0.19	ug/L	50.0		104	80-120			
Ethylbenzene	50.7	1.0	0.21	ug/L	50.0		101	80-120			
n-Butylbenzene	49.5	2.5	0.32	ug/L	50.0		99.0	70.6-125			
n-Propylbenzene	46.5	1.0	0.13	ug/L	50.0		93.0	79.7-120			
Toluene	52.6	1.0	0.21	ug/L	50.0		105	80-120			
Trichloroethene	50.4	1.0	0.20	ug/L	50.0		101	80-120			
Vinyl chloride	51.1	1.0	0.087	ug/L	50.0		102	75-129			
Surrogate: 4-Bromofluorobenzene	*56.2*			*ug/L*	*50.0*		*112*	*76.4-125*			
Surrogate: Dibromofluoromethane	*51.5*			*ug/L*	*50.0*		*103*	*80-120*			
Surrogate: Toluene-d8	*51.6*			*ug/L*	*50.0*		*103*	*80-125*			
Matrix Spike (B9I0809-MS1)		**Source: 0903883-01**			Prepared & Analyzed: 09/08/09						
1,1,2,2-Tetrachloroethane	51.8	1.0	0.13	ug/L	50.0	<1.0	104	80-120			
1,1-Dichloroethane	56.6	1.0	0.11	ug/L	50.0	<1.0	113	78-120			
1,1-Dichloroethene	53.9	1.0	0.12	ug/L	50.0	<1.0	108	75-120			
1,3,5-Trimethylbenzene	48.0	1.0	0.18	ug/L	50.0	<1.0	96.1	75.8-120			
1,4-Dichlorobenzene	48.4	1.0	0.17	ug/L	50.0	<1.0	96.9	75-125			
2-Chlorotoluene	46.8	1.0	0.17	ug/L	50.0	<1.0	93.7	79.1-120			
Benzene	53.8	1.0	0.093	ug/L	50.0	<1.0	108	80-120			
Bromoform	54.4	5.0	0.50	ug/L	50.0	<5.0	109	80-123			
Chlorobenzene	53.6	1.0	0.15	ug/L	50.0	<1.0	107	80-120			
Chloroform	54.9	1.0	0.19	ug/L	50.0	<1.0	110	80-120			
Ethylbenzene	52.3	1.0	0.21	ug/L	50.0	<1.0	105	80-120			
n-Butylbenzene	47.7	2.5	0.32	ug/L	50.0	<2.5	95.4	74.2-125			
n-Propylbenzene	47.5	1.0	0.13	ug/L	50.0	<1.0	94.9	76.3-120			
Toluene	54.5	1.0	0.21	ug/L	50.0	<1.0	109	80-120			
Trichloroethene	51.8	1.0	0.20	ug/L	50.0	<1.0	104	80-120			
Vinyl chloride	55.0	1.0	0.087	ug/L	50.0	<1.0	110	70.3-126			
Surrogate: 4-Bromofluorobenzene	*58.2*			*ug/L*	*50.0*		*116*	*76.4-125*			
Surrogate: Dibromofluoromethane	*52.5*			*ug/L*	*50.0*		*105*	*80-120*			
Surrogate: Toluene-d8	*53.3*			*ug/L*	*50.0*		*107*	*80-125*			
Matrix Spike Dup (B9I0809-MSD1)		**Source: 0903883-01**			Prepared & Analyzed: 09/08/09						
1,1,2,2-Tetrachloroethane	50.4	1.0	0.13	ug/L	50.0	<1.0	101	80-120	2.84	20	
1,1-Dichloroethane	55.1	1.0	0.11	ug/L	50.0	<1.0	110	78-120	2.81	20	
1,1-Dichloroethene	54.1	1.0	0.12	ug/L	50.0	<1.0	108	75-120	0.290	20	
1,3,5-Trimethylbenzene	45.7	1.0	0.18	ug/L	50.0	<1.0	91.4	75.8-120	4.91	20	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0809 - EPA 5030 Water (Purge and Trap)											
Matrix Spike Dup (B9I0809-MSD1)		**Source: 0903883-01**			Prepared & Analyzed: 09/08/09						
1,4-Dichlorobenzene	48.1	1.0	0.17	ug/L	50.0	<1.0	96.1	75-125	0.752	20	
2-Chlorotoluene	45.2	1.0	0.17	ug/L	50.0	<1.0	90.4	79.1-120	3.56	20	
Benzene	52.9	1.0	0.093	ug/L	50.0	<1.0	106	80-120	1.70	20	
Bromoform	53.2	5.0	0.50	ug/L	50.0	<5.0	106	80-123	2.29	20	
Chlorobenzene	51.2	1.0	0.15	ug/L	50.0	<1.0	102	80-120	4.67	20	
Chloroform	53.9	1.0	0.19	ug/L	50.0	<1.0	108	80-120	1.89	20	
Ethylbenzene	50.4	1.0	0.21	ug/L	50.0	<1.0	101	80-120	3.66	20	
n-Butylbenzene	48.2	2.5	0.32	ug/L	50.0	<2.5	96.3	74.2-125	0.944	20	
n-Propylbenzene	45.6	1.0	0.13	ug/L	50.0	<1.0	91.3	76.3-120	3.91	20	
Toluene	53.1	1.0	0.21	ug/L	50.0	<1.0	106	80-120	2.71	20	
Trichloroethene	50.8	1.0	0.20	ug/L	50.0	<1.0	102	80-120	1.81	20	
Vinyl chloride	55.7	1.0	0.087	ug/L	50.0	<1.0	111	70.3-126	1.25	20	
Surrogate: 4-Bromofluorobenzene	*56.7*			*ug/L*	*50.0*		*113*	*76.4-125*			
Surrogate: Dibromofluoromethane	*51.7*			*ug/L*	*50.0*		*103*	*80-120*			
Surrogate: Toluene-d8	*52.1*			*ug/L*	*50.0*		*104*	*80-125*			

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903921
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

Notes and Definitions

M2	Matrix spike recovery was low, the associated blank spike recovery was acceptable.
J	Parameter was present between the MDL and RL and should be considered an estimated value
H3b	The trip-blank sample was received and analyzed past holding time.
<	Less than value listed
dry	Sample results reported on a dry weight basis
NA	Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL	Method Detection Limit
RL	Reporting Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
MS	Matrix Spike = Laboratory Fortified Matrix (LFM)

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0903921

Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600
.07

Project Number: 23/19-B05S1R1300
Project Name: UMA SS1/R1
№ 28512

COC 1 of 1
Project Manager: SME
Project Contact: KSN
Sampled by: ESC
Laboratory: Legend

	Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Volatile Organics (Pres.)*1	Semivolatile Organics *2	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	General (Unpreserved) *3	Cyanide (NaOH)	Nutrients (H_2SO_4) *4	Oil and Grease (H_2SO_4)	Sulfide (Zn Acetate)	Methane	Bacteria ($Na_2S_2O_3$)	DRO (HCl)	VOCs (2-oz tared MeOH)*1	GRO, BTEX (2-oz tared MeOH)*1	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 oz 4-oz unpres.)*2	% Moisture (plastic vial, unpres.)	Total No. Of Containers	Remarks
01	1. SOCS-GP1(0.5-1.5)	9-2-09	0845		X	X																		1	1	1	3	SVOCs, Metals PPL Metals See attached analyte list
02	2. SOCS-GP1	9-2-09	0950	X		X			3	1	1																5	VOCs, SVOCs, PPL Metals See attached analyte list
03	3. SOCS-Dup1	9-2-09	1200	X				X	3	1	1																5	"
04	4. SOCS-GP2(2-3)	9-2-09	1115		X	X				1														1	1	1	3	SVOCs, PPL Metals See attached analyte list
05	5. SOCS-GP3(1-2)	9-2-09	1430		X	X																		1	1	1	3	"
06	6. Trip Blank 9/1/09 BP																											
	7.																											
	8.																											
	9.																											
	10.																											
	11.																											
	12.																											

Common Parameter/Container - Preservation Key
*1 - Volatile Organics = BTEX, GRO, TPH, Full List
*2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
*3 - General = pH, Chloride, Flouride, Alkalinity, TSS, TDS, TS, Sulfate
*4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By	On Ice?	Date	Time	Received by:	Date	Time
~~[illegible]~~ ELLEN GINSBURG	Y N	9/3/09	1700			
KELLY NEPPL	Y N	9/4/09	800	[illegible]	9/4/09	1200

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other _____
Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

H:\LEGTS\LDF-ORM\Chain Of Custody Form LLG Rev. 07/01/05

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [1]	Minnesota Tier SLV [4]	Minnesota SRV [5]	Minnesota Tier II Industrial SRV [6]
Metals										
Antimony	7440-36-0	Soil/Solid	6010B	0.0055	0.50	mg/kg	--	2.7	12	100
Arsenic	7440-38-2	Soil/Solid	6010B	0.10	0.50	mg/kg	--	15.1	9	20
Beryllium	7440-41-7	Soil/Solid	6010B	0.011	0.25	mg/kg	--	1.4	55	230
Cadmium	7440-43-9	Soil/Solid	6010B	0.025	0.25	mg/kg	--	4.4	25	200
Chromium	7440-47-3	Soil/Solid	6010B	0.012	0.50	mg/kg	--	1000000 (8)	44000 (8)	100000 (8)
Copper	7440-50-8	Soil/Solid	6010B	0.070	1.0	mg/kg	--	400	100	9000
Lead	7439-92-1	Soil/Solid	6010B	0.034	1.0	mg/kg	--	525	300	700
Nickel	7440-02-0	Soil/Solid	6010B	0.014	0.25	mg/kg	--	88	560	2500
Selenium	7782-49-2	Soil/Solid	6010B	0.11	1.0	mg/kg	--	1.5	160	1300
Silver	7440-22-4	Soil/Solid	6010B	0.0090	0.25	mg/kg	--	3.9	160	1300
Thallium	7440-28-0	Soil/Solid	6010B	0.13	2.0	mg/kg	--	--	3	21
Zinc	7440-66-6	Soil/Solid	6010B	0.22	1.0	mg/kg	--	1500	8700	75000
Metals										
Antimony	7440-36-0	Water/Liquid	6020	0.046	0.500	ug/L	6	--	--	--
Arsenic	7440-38-2	Water/Liquid	6010B	2	10.000	ug/L	--	--	--	--
Beryllium	7440-41-7	Water/Liquid	6020	0.027	0.5000	ug/L	0.08	--	--	--
Cadmium	7440-43-9	Water/Liquid	6010B	0.099	1.0000	ug/L	4	--	--	--
Chromium	7440-47-3	Water/Liquid	6010B	0.24	10.000	ug/L	100 (5)	--	--	--
Copper	7440-50-8	Water/Liquid	6010B	1.4	20.000	ug/L	--	--	--	--
Lead	7439-92-1	Water/Liquid	6010B	0.68	3.0000	ug/L	--	--	--	--
Nickel	7440-02-0	Water/Liquid	6010B	0.28	5.0000	ug/L	100	--	--	--
Selenium	7782-49-2	Water/Liquid	6010B	2.2	20.000	ug/L	30	--	--	--
Silver	7440-22-4	Water/Liquid	6010B	0.18	5.0000	ug/L	30	--	--	--
Thallium	7440-28-0	Water/Liquid	6020	0.0081	0.500	ug/L	0.5	--	--	--
Zinc	7440-66-6	Water/Liquid	6010B	4.4	20.000	ug/L	2000	--	--	--
Mercury										
Mercury	7439-97-6	Soil/Solid	7471A	0.0031	0.10	mg/kg	--	1.5 C	0.5	1.5
Mercury	7439-97-6	Water/Liquid	7470A	0.000031	0.00020	mg/L	--	--	--	--
Nitrate+Nitrite Nitrogen as N (Braun)										
N+N Nitrogen as N	NA	Water/Liquid	SM4500-NO3-F	0.007	0.02	mg/L	10 (3)	--	--	--
Total Kjeldahl Nitrogen (Braun)										
TKN as N	NA	Water/Liquid	SM4500-NH3-C	0.17	0.5	mg/L	--	--	--	--
Perchlorate (TA)										
Perchlorate	NA	Water/Liquid	314	0.36	4	ug/L	--	--	--	--
Nitrocellulose (TA)										
Nitrocellulose	NA	Soil/Solid	353.2Mod	0.78	0.5	mg/kg	--	--	--	--
Nitrocellulose (TA)										
Nitrocellulose	NA	Water/Liquid	353.2Mod	0.124	0.5	mg/L	--	--	--	--
Organochlorine Pesticides										
4,4'-DDD	72-54-8	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	56	125
4,4'-DDE	72-55-9	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	40	80
4,4'-DDT	50-29-3	Soil/Solid	8081A	0.0020	0.040	mg/kg	--	--	15	88
a-Chlordane	5103-71-9	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	--	--
Aldrin	309-00-2	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	1	2
alpha-BHC	319-84-6	Soil/Solid	8081A	0.0011	0.040	mg/kg	--	--	2	3.5
beta-BHC	319-85-7	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	7	15
delta-BHC	319-86-8	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	--	--
Dieldrin	60-57-1	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	0.8	2
Endosulfan I	959-98-8	Soil/Solid	8081A	0.0013	0.040	mg/kg	--	--	--	--
Endosulfan II	891-86-1	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
Endosulfan sulfate	1031-07-8	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
Endrin	72-20-8	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	8	56
Endrin aldehyde	7421-93-4	Soil/Solid	8081A	0.0041	0.040	mg/kg	--	--	--	--
Endrin ketone	53494-70-5	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
gamma-BHC (Lindane)	58-89-9	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	9	15
gamma-Chlordane	5566-34-7	Soil/Solid	8081A	0.0017	0.040	mg/kg	--	--	--	--
Heptachlor	76-44-8	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	2	3.5
Heptachlor epoxide	1024-57-3	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	0.4	3
Methoxychlor	72-43-5	Soil/Solid	8081A	0.0019	0.040	mg/kg	--	--	11	50
Toxaphene	8001-35-2	Soil/Solid	8081A	0.015	0.080	mg/kg	--	--	13	28
Organochlorine Pesticides										
4,4'-DDD	72-54-8	Water/Liquid	8081A	0.026	0.40	ug/L	1	--	--	--
4,4'-DDE	72-55-9	Water/Liquid	8081A	0.037	0.40	ug/L	1	--	--	--
4,4'-DDT	50-29-3	Water/Liquid	8081A	0.031	0.40	ug/L	1	--	--	--
a-Chlordane	5103-71-9	Water/Liquid	8081A	0.030	0.40	ug/L	--	--	--	--
Aldrin	309-00-2	Water/Liquid	8081A	0.036	0.40	ug/L	--	--	--	--
alpha-BHC	319-84-6	Water/Liquid	8081A	0.028	0.40	ug/L	--	--	--	--
beta-BHC	319-85-7	Water/Liquid	8081A	0.026	0.40	ug/L	--	--	--	--
delta-BHC	319-86-8	Water/Liquid	8081A	0.023	0.40	ug/L	--	--	--	--
Dieldrin	60-57-1	Water/Liquid	8081A	0.031	0.40	ug/L	0.006 (4)	--	--	--
Endosulfan I	959-98-8	Water/Liquid	8081A	0.032	0.40	ug/L	--	--	--	--
Endosulfan II	891-86-1	Water/Liquid	8081A	0.035	0.40	ug/L	--	--	--	--

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Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [1]	Minnesota Tier SLV [4]	Minnesota SRV [5]	Minnesota Tier II Industrial SRV [6]
Endosulfan sulfate	1031-07-8	Water/Liquid	8081A	0.034	0.40	ug/L	--	--	--	--
Endrin	72-20-8	Water/Liquid	8081A	0.029	0.40	ug/L	--	--	--	--
Endrin aldehyde	7421-93-4	Water/Liquid	8081A	0.044	0.40	ug/L	--	--	--	--
Endrin ketone	53494-70-5	Water/Liquid	8081A	0.031	0.40	ug/L	--	--	--	--
gamma-BHC (Lindane)	58-89-9	Water/Liquid	8081A	0.024	0.40	ug/L	--	--	--	--
gamma-Chlordane	5566-34-7	Water/Liquid	8081A	0.030	0.40	ug/L	--	--	--	--
Heptachlor	76-44-8	Water/Liquid	8081A	0.028	0.40	ug/L	0.08	--	--	--
Heptachlor epoxide	1024-57-3	Water/Liquid	8081A	0.030	0.40	ug/L	0.04	--	--	--
Methoxychlor	72-43-5	Water/Liquid	8081A	0.032	0.40	ug/L	--	--	--	--
Toxaphene	8001-35-2	Water/Liquid	8081A	0.069	1.00	ug/L	0.3	--	--	--
MDA List 1 Pesticides (Braun)										
EPTC	759-94-4	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Propachlor	1918-16-7	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Ethalfluralin	55283-68-6	Soil/Solid	8270C	0.014	0.04	mg/kg	--	--	--	--
Deisopropylatrazine	1007-28-9	Soil/Solid	8270C	0.0080	0.04	mg/kg	--	--	--	--
Trifluralin	1582-09-8	Soil/Solid	8270C	0.014	0.04	mg/kg	--	--	--	--
Desethylatrazine	6190-65-4	Soil/Solid	8270C	0.011	0.04	mg/kg	--	--	--	--
Phorate	298-02-2	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Prometon	1610-18-0	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Simazine	122-34-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Atrazine	1912-24-9	Soil/Solid	8270C	0.0100	0.04	mg/kg	--	--	--	--
Propazine	139-40-2	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Terbufos	13071-79-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	0.6	3.5
Fonofos	944-22-9	Soil/Solid	8270C	0.0040	0.04	mg/kg	--	--	--	--
Triallate	2303-17-5	Soil/Solid	8270C	0.0050	0.04	mg/kg	--	--	--	--
Metribuzin	21087-64-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Dimethenamid	87674-68-8	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Acetochlor	34256-82-1	Soil/Solid	8270C	0.010	0.04	mg/kg	--	--	--	--
Alachlor	15972-60-8	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Cyanazine	21725-46-2	Soil/Solid	8270C	0.0080	0.04	mg/kg	--	--	--	--
Metolachlor	51218-45-2	Soil/Solid	8270C	0.0030	0.04	mg/kg	--	--	435	3300
Chlorpyrifos	2921-88-2	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Pendimethalin	40487-42-1	Soil/Solid	8270C	0.016	0.04	mg/kg	--	--	--	--
MDA List 1 Pesticides (Braun)										
EPTC	759-94-4	Water/Liquid	8270C	0.22	0.50	ug/L	200	--	--	--
Propachlor	1918-16-7	Water/Liquid	8270C	0.14	0.50	ug/L	--	--	--	--
Ethalfluralin	55283-68-6	Water/Liquid	8270C	0.47	0.50	ug/L	300 (1)	--	--	--
Deisopropylatrazine	1007-28-9	Water/Liquid	8270C	0.26	0.50	ug/L	--	--	--	--
Trifluralin	1582-09-8	Water/Liquid	8270C	0.21	0.50	ug/L	5 (1)	--	--	--
Desethylatrazine	6190-65-4	Water/Liquid	8270C	0.29	0.50	ug/L	--	--	--	--
Phorate	298-02-2	Water/Liquid	8270C	0.58	1.00	ug/L	1 (1)	--	--	--
Prometon	1610-18-0	Water/Liquid	8270C	0.29	0.50	ug/L	100	--	--	--
Simazine	122-34-9	Water/Liquid	8270C	0.32	0.50	ug/L	4 (3)	--	--	--
Atrazine	1912-24-9	Water/Liquid	8270C	0.24	0.50	ug/L	3 (3)	--	--	--
Propazine	139-40-2	Water/Liquid	8270C	0.21	0.50	ug/L	10 (1)	--	--	--
Terbufos	13071-79-9	Water/Liquid	8270C	0.54	1.00	ug/L	0.2 (1)	--	--	--
Fonofos	944-22-9	Water/Liquid	8270C	0.30	0.50	ug/L	10 (1)	--	--	--
Triallate	2303-17-5	Water/Liquid	8270C	0.34	0.50	ug/L	9 (1)	--	--	--
Metribuzin	21087-64-9	Water/Liquid	8270C	0.35	0.50	ug/L	200	--	--	--
Dimethenamid	87674-68-8	Water/Liquid	8270C	0.24	0.50	ug/L	40 (1)	--	--	--
Acetochlor	34256-82-1	Water/Liquid	8270C	0.25	0.50	ug/L	9 (4)	--	--	--
Alachlor	15972-60-8	Water/Liquid	8270C	0.19	0.50	ug/L	5 (4)	--	--	--
Cyanazine	21725-46-2	Water/Liquid	8270C	0.48	0.50	ug/L	1	--	--	--
Metolachlor	51218-45-2	Water/Liquid	8270C	0.28	0.50	ug/L	300 (4)	--	--	--
Chlorpyrifos	2921-88-2	Water/Liquid	8270C	0.34	0.50	ug/L	20 (1)	--	--	--
Pendimethalin	40487-42-1	Water/Liquid	8270C	0.25	0.50	ug/L	--	--	--	--
MDA List 2 Pesticides (Braun)										
Dicamba	1918-00-9	Soil/Solid	8270C	0.008	0.50	mg/kg	--	--	--	--
MCPA	94-74-6	Soil/Solid	8270C	0.014	0.50	mg/kg	--	--	16	110
2,4-D	94-75-7	Soil/Solid	8270C	0.012	0.50	mg/kg	--	--	285	2200
Trichlopyr	55336-06-3	Soil/Solid	8270C	0.008	0.50	mg/kg	--	--	--	--
Pentachlorophenol	87-86-5	Soil/Solid	8270C	0.007	0.50	mg/kg	--	--	80	120
2,4,5-T.P.	93-72-1	Soil/Solid	8270C	0.007	0.50	mg/kg	--	--	--	--
2,4,5-T	93-76-5	Soil/Solid	8270C	0.009	0.50	mg/kg	--	--	290	2150
Dinoseb	88-85-7	Soil/Solid	8270C	0.005	0.50	mg/kg	--	--	--	--
2,4-D.B.	94-82-6	Soil/Solid	8270C	0.011	0.50	mg/kg	--	--	226	1750
Bentazone	25057-89-0	Soil/Solid	8270C	0.009	0.50	mg/kg	--	--	--	--
Picloram	1918-02-1	Soil/Solid	8270C	0.011	0.50	mg/kg	--	--	2000	15000
MDA List 2 Pesticides (Braun)										
Dicamba	1918-00-9	Water/Liquid	8270C	0.38	0.50	ug/L	200	--	--	--

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Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [1]	Minnesota Tier SLV [2]	Minnesota SRV [3]	Minnesota Tier II Industrial SRV [4]
MCPA	94-74-6	Water/Liquid	8270C	0.29	0.30	ug/L	--	--	--	--
2,4-D	94-75-7	Water/Liquid	8270C	0.26	0.50	ug/L	70	--	--	--
Trichlopyr	55336-06-3	Water/Liquid	8270C	0.41	0.50	ug/L	300 (1)	--	--	--
Pentachlorophenol	87-86-5	Water/Liquid	8270C	0.39	0.50	ug/L	1 (3)	--	--	--
2,4,5-T.P.	93-72-1	Water/Liquid	8270C	0.28	0.50	ug/L	50 (3)	--	--	--
2,4,5-T	93-76-5	Water/Liquid	8270C	0.31	0.50	ug/L	--	--	--	--
Dinoseb	88-85-7	Water/Liquid	8270C	0.34	0.50	ug/L	7 (1)	--	--	--
2,4-D.B.	94-82-6	Water/Liquid	8270C	0.15	0.50	ug/L	60 (1)	--	--	--
Bentazone	25057-89-0	Water/Liquid	8270C	0.22	0.50	ug/L	200 (1)	--	--	--
Picloram	1918-02-1	Water/Liquid	8270C	0.25	0.50	ug/L	500	--	--	--
PCBs										
Aroclor 1016	12674-11-2	Soil/Solid	8082	0.017	0.20	mg/kg	--	--	--	--
Aroclor 1221	11104-28-2	Soil/Solid	8082	0.039	0.20	mg/kg	--	--	--	--
Aroclor 1232	11141-16-5	Soil/Solid	8082	0.010	0.20	mg/kg	--	--	--	--
Aroclor 1242	53469-21-9	Soil/Solid	8082	0.016	0.20	mg/kg	--	--	--	--
Aroclor 1248	12672-29-6	Soil/Solid	8082	0.0078	0.20	mg/kg	--	--	--	--
Aroclor 1254	11097-69-1	Soil/Solid	8082	0.0071	0.20	mg/kg	--	--	--	--
Aroclor 1260	11096-82-5	Soil/Solid	8082	0.015	0.20	mg/kg	--	--	--	--
PCBs										
Aroclor 1016	12674-11-2	Water/Liquid	8082	0.41	2.0	ug/L	--	--	--	--
Aroclor 1221	11104-28-2	Water/Liquid	8082	0.36	2.0	ug/L	--	--	--	--
Aroclor 1232	11141-16-5	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1242	53469-21-9	Water/Liquid	8082	0.58	2.0	ug/L	--	--	--	--
Aroclor 1248	12672-29-6	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1254	11097-69-1	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1260	11096-82-5	Water/Liquid	8082	0.32	2.0	ug/L	--	--	--	--
VOCs - Soil/Solid										
1,1,1,2-Tetrachloroethane	630-20-6	Soil/Solid	8260B	0.019	0.25	mg/kg	--	1.4	31	51
1,1,1-Trichloroethane	71-55-6	Soil/Solid	8260B	0.0098	0.25	mg/kg	--	3.5	140	472
1,1,2,2-Tetrachloroethane	79-34-5	Soil/Solid	8260B	0.012	0.25	mg/kg	--	0.005	3.5	6.5
1,1,2-Trichloroethane	79-00-5	Soil/Solid	8260B	0.022	0.25	mg/kg	--	0.010	9	14
1,1,2-Trichlorotrifluoroethane	76-13-1	Soil/Solid	8260B	0.052	0.25	mg/kg	--	2580	3745	5430
1,1-Dichloroethane	75-34-3	Soil/Solid	8260B	0.013	0.25	mg/kg	--	0.18	34	55
1,1-Dichloroethene	75-35-4	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.025	20	60
1,1-Dichloropropene	563-58-6	Soil/Solid	8260B	0.021	0.25	mg/kg	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	Soil/Solid	8260B	0.063	0.50	mg/kg	--	--	--	--
1,2,3-Trichloropropane	96-18-4	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.35	--	--
1,2,4-Trichlorobenzene	120-82-1	Soil/Solid	8260B	0.052	0.50	mg/kg	--	0.31	200	985
1,2,4-Trimethylbenzene	95-63-6	Soil/Solid	8260B	0.013	0.25	mg/kg	--	--	8	25
1,2-Dibromo-3-chloropropane	96-12-8	Soil/Solid	8260B	0.079	0.50	mg/kg	--	0.001	--	--
1,2-Dibromoethane (EDB)	106-93-4	Soil/Solid	8260B	0.0056	0.25	mg/kg	--	0.00001	0.3	0.5
1,2-Dichlorobenzene	95-50-1	Soil/Solid	8260B	0.0055	0.25	mg/kg	--	8.1	26	75
1,2-Dichloroethane	107-06-2	Soil/Solid	8260B	0.030	0.25	mg/kg	--	0.010	4	6
1,2-Dichloropropane	78-87-5	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.011	4	6
1,3,5-Trimethylbenzene	108-67-8	Soil/Solid	8260B	0.0077	0.25	mg/kg	--	--	3	10
1,3-Dichlorobenzene	541-73-1	Soil/Solid	8260B	0.015	0.25	mg/kg	--	4.2	26	200
1,3-Dichloropropane	142-28-9	Soil/Solid	8260B	0.017	0.25	mg/kg	--	--	--	--
1,4-Dichlorobenzene	106-46-7	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.13	30	50
2,2-Dichloropropane	594-20-7	Soil/Solid	8260B	0.034	0.50	mg/kg	--	--	--	--
2-Butanone	78-93-3	Soil/Solid	8260B	0.069	2.0	mg/kg	--	--	5500	19000
2-Chlorotoluene	95-49-8	Soil/Solid	8260B	0.015	0.25	mg/kg	--	--	436	436
4-Chlorotoluene	106-43-4	Soil/Solid	8260B	0.015	0.25	mg/kg	--	--	--	--
Acetone	67-64-1	Soil/Solid	8260B	0.16	2.0	mg/kg	--	0.7	340	1000
Allyl chloride	107-05-1	Soil/Solid	8260B	0.016	0.50	mg/kg	--	0.032	--	--
Benzene	71-43-2	Soil/Solid	8260B	0.0070	0.25	mg/kg	--	0.034	6	10
Bromobenzene	108-86-1	Soil/Solid	8260B	0.017	0.25	mg/kg	--	--	--	--
Bromochloromethane	74-97-5	Soil/Solid	8260B	0.021	0.25	mg/kg	--	0.15	--	--
Bromodichloromethane	75-27-4	Soil/Solid	8260B	0.020	0.25	mg/kg	--	0.013	10	17
Bromoform	75-25-2	Soil/Solid	8260B	0.015	0.50	mg/kg	--	0.14	370	650
Bromomethane	74-83-9	Soil/Solid	8260B	0.012	0.50	mg/kg	--	0.5	0.7	2
Carbon tetrachloride	56-23-5	Soil/Solid	8260B	0.018	0.25	mg/kg	--	0.023	0.3	0.9
Chlorobenzene	108-90-7	Soil/Solid	8260B	0.011	0.25	mg/kg	--	1.1	11	32
Chloroethane	75-00-3	Soil/Solid	8260B	0.045	0.25	mg/kg	--	--	1000	3000
Chloroform	67-66-3	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.17	2.5	4
Chloromethane	74-87-3	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.006	8	23
cis-1,2-Dichloroethene	156-59-2	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.14	8	22
cis-1,3-Dichloropropene	10061-01-5	Soil/Solid	8260B	0.0098	0.25	mg/kg	--	0.005 M	--	--
Dibromochloromethane	124-48-1	Soil/Solid	8260B	0.014	0.25	mg/kg	--	0.03	12	20
Dibromomethane	74-95-3	Soil/Solid	8260B	0.021	0.25	mg/kg	--	--	260	1860
Dichlorodifluoromethane	75-71-8	Soil/Solid	8260B	0.035	0.50	mg/kg	--	38	16	50
Dichlorofluoromethane	75-43-4	Soil/Solid	8260B	0.014	0.25	mg/kg	--	--	--	--
Ethyl ether	60-29-7	Soil/Solid	8260B	0.017	0.50	mg/kg	--	1.2	--	--
Ethylbenzene	100-41-4	Soil/Solid	8260B	0.011	0.25	mg/kg	--	4.7	200	200
Hexachlorobutadiene	87-68-3	Soil/Solid	8260B	0.11	1.0	mg/kg	--	25	6	37
Isopropylbenzene	98-82-8	Soil/Solid	8260B	0.019	0.25	mg/kg	--	18	30	87

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits	Minnesota Tier SLV [a]	Minnesota SRV [b]	Minnesota Tier II Industrial SRV [b]
m,p-Xylene	108-38-3/ 106-42-3	Soil/Solid	8260B	0.024	0.50	mg/kg	--	45 M	45 M	130 M
Methyl isobutyl ketone	108-10-1	Soil/Solid	8260B	0.031	0.50	mg/kg	--	0.42	1700	9000
Methyl tert-butyl ether	1634-04-4	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.027	--	--
Methylene chloride	75-09-2	Soil/Solid	8260B	0.043	1.0	mg/kg	--	0.068	97	158
Naphthalene	91-20-3	Soil/Solid	8260B	0.060	0.50	mg/kg	--	7.5	10	28
n-Butylbenzene	104-51-8	Soil/Solid	8260B	0.012	0.25	mg/kg	--	--	30	92
n-Propylbenzene	103-65-1	Soil/Solid	8260B	0.013	0.25	mg/kg	--	--	30	93
o-Xylene	95-47-6	Soil/Solid	8260B	0.015	0.25	mg/kg	--	45 M	45 M	130 M
p-Isopropyltoluene	99-87-6	Soil/Solid	8260B	0.014	0.25	mg/kg	--	--	--	--
sec-Butylbenzene	135-98-8	Soil/Solid	8260B	0.012	0.25	mg/kg	--	--	25	70
Styrene	100-42-5	Soil/Solid	8260B	0.012	0.25	mg/kg	--	1.9	210	600
tert-Butylbenzene	98-06-6	Soil/Solid	8260B	0.0073	0.25	mg/kg	--	--	30	90
Tetrachloroethene	127-18-4	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.068	72	131
Tetrahydrofuran	109-99-9	Soil/Solid	8260B	0.068	2.0	mg/kg	--	0.16	--	--
Toluene	108-88-3	Soil/Solid	8260B	0.0063	0.25	mg/kg	--	6.4	107	305
trans-1,2-Dichloroethene	156-60-5	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.27	11	33
trans-1,3-Dichloropropene	10061-02-6	Soil/Solid	8260B	0.013	0.25	mg/kg	--	0.005 M	--	--
Trichloroethene	79-01-6	Soil/Solid	8260B	0.013	0.25	mg/kg	--	0.14	29	46
Trichlorofluoromethane	75-69-4	Soil/Solid	8260B	0.035	0.25	mg/kg	--	22	67	195
Vinyl chloride	75-01-4	Soil/Solid	8260B	0.031	0.25	mg/kg	--	0.001	0.8	2.2
VOCs - Water/Liquid										
1,1,1,2-Tetrachloroethane	630-20-6	Water/Liquid	8260B	0.083	1.0	ug/L	70	--	--	--
1,1,1-Trichloroethane	71-55-6	Water/Liquid	8260B	0.098	1.0	ug/L	9000 (4)	--	--	--
1,1,2,2-Tetrachloroethane	79-34-5	Water/Liquid	8260B	0.084	1.0	ug/L	2	--	--	--
1,1,2-Trichloroethane	79-00-5	Water/Liquid	8260B	0.15	1.0	ug/L	3	--	--	--
1,1,2-Trichlorotrifluoroethane	76-13-1	Water/Liquid	8260B	0.10	1.0	ug/L	200000	--	--	--
1,1-Dichloroethane	75-34-3	Water/Liquid	8260B	0.094	1.0	ug/L	100 (7)	--	--	--
1,1-Dichloroethene	75-35-4	Water/Liquid	8260B	0.10	1.0	ug/L	200	--	--	--
1,1-Dichloropropene	563-58-6	Water/Liquid	8260B	0.099	1.0	ug/L	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	Water/Liquid	8260B	0.40	5.0	ug/L	--	--	--	--
1,2,3-Trichloropropane	96-18-4	Water/Liquid	8260B	0.13	2.5	ug/L	40	--	--	--
1,2,4-Trichlorobenzene	120-82-1	Water/Liquid	8260B	0.52	5.0	ug/L	--	--	--	--
1,2,4-Trimethylbenzene	95-63-6	Water/Liquid	8260B	0.052	1.0	ug/L	--	--	--	--
1,2-Dibromo-3-chloropropane	96-12-8	Water/Liquid	8260B	1.2	5.0	ug/L	--	--	--	--
1,2-Dibromoethane (EDB)	106-93-4	Water/Liquid	8260B	0.10	2.5	ug/L	0.004	--	--	--
1,2-Dichlorobenzene	95-50-1	Water/Liquid	8260B	0.12	1.0	ug/L	600	--	--	--
1,2-Dichloroethane	107-06-2	Water/Liquid	8260B	0.084	1.0	ug/L	4	--	--	--
1,2-Dichloropropane	78-87-5	Water/Liquid	8260B	0.13	1.0	ug/L	5	--	--	--
1,3,5-Trimethylbenzene	108-67-8	Water/Liquid	8260B	0.066	1.0	ug/L	100 (4) (6)	--	--	--
1,3-Dichlorobenzene	541-73-1	Water/Liquid	8260B	0.094	1.0	ug/L	--	--	--	--
1,3-Dichloropropane	142-28-9	Water/Liquid	8260B	0.074	1.0	ug/L	--	--	--	--
1,4-Dichlorobenzene	106-46-7	Water/Liquid	8260B	0.053	1.0	ug/L	10	--	--	--
2,2-Dichloropropane	594-20-7	Water/Liquid	8260B	0.23	5.0	ug/L	--	--	--	--
2-Butanone	78-93-3	Water/Liquid	8260B	0.58	20	ug/L	4000	--	--	--
2-Chlorotoluene	95-49-8	Water/Liquid	8260B	0.077	1.0	ug/L	--	--	--	--
4-Chlorotoluene	106-43-4	Water/Liquid	8260B	0.059	1.0	ug/L	--	--	--	--
Acetone	67-64-1	Water/Liquid	8260B	0.69	20	ug/L	700	--	--	--
Allyl chloride	107-05-1	Water/Liquid	8260B	0.28	5.0	ug/L	30	--	--	--
Benzene	71-43-2	Water/Liquid	8260B	0.047	1.0	ug/L	2 (4)	--	--	--
Bromobenzene	108-86-1	Water/Liquid	8260B	0.084	1.0	ug/L	--	--	--	--
Bromochloromethane	74-97-5	Water/Liquid	8260B	0.075	1.0	ug/L	--	--	--	--
Bromodichloromethane	75-27-4	Water/Liquid	8260B	0.13	1.0	ug/L	8	--	--	--
Bromoform	75-25-2	Water/Liquid	8260B	0.074	5.0	ug/L	40	--	--	--
Bromomethane	74-83-9	Water/Liquid	8260B	0.26	5.0	ug/L	10	--	--	--
Carbon tetrachloride	56-23-5	Water/Liquid	8260B	0.074	1.0	ug/L	3	--	--	--
Chlorobenzene	108-90-7	Water/Liquid	8260B	0.025	1.0	ug/L	100	--	--	--
Chloroethane	75-00-3	Water/Liquid	8260B	0.26	2.5	ug/L	--	--	--	--
Chloroform	67-66-3	Water/Liquid	8260B	0.098	1.0	ug/L	30 (4) (6)	--	--	--
Chloromethane	74-87-3	Water/Liquid	8260B	0.098	2.5	ug/L	--	--	--	--
cis-1,2-Dichloroethene	156-59-2	Water/Liquid	8260B	0.12	1.0	ug/L	50 (4)	--	--	--
cis-1,3-Dichloropropene	10061-01-5	Water/Liquid	8260B	0.11	1.0	ug/L	--	--	--	--
Dibromochloromethane	124-48-1	Water/Liquid	8260B	0.084	2.5	ug/L	10	--	--	--
Dibromomethane	74-95-3	Water/Liquid	8260B	0.14	2.5	ug/L	--	--	--	--
Dichlorodifluoromethane	75-71-8	Water/Liquid	8260B	0.39	5.0	ug/L	700 (4)	--	--	--
Dichlorofluoromethane	75-43-4	Water/Liquid	8260B	0.070	1.0	ug/L	--	--	--	--
Ethyl ether	60-29-7	Water/Liquid	8260B	0.10	5.0	ug/L	1000	--	--	--
Ethylbenzene	100-41-4	Water/Liquid	8260B	0.055	1.0	ug/L	700	--	--	--
Hexachlorobutadiene	87-68-3	Water/Liquid	8260B	0.58	10	ug/L	1	--	--	--
Isopropylbenzene	98-82-8	Water/Liquid	8260B	0.068	1.0	ug/L	300	--	--	--
m,p-Xylene	108-38-3 106-42-3	Water/Liquid	8260B	0.14	2.0	ug/L	10000 M	--	--	--
Methyl isobutyl ketone	108-10-1	Water/Liquid	8260B	0.13	5.0	ug/L	300	--	--	--
Methyl tert-butyl ether	1634-04-4	Water/Liquid	8260B	0.079	1.0	ug/L	--	--	--	--

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [a]	Minnesota Tier SLV [a]	Minnesota SRV [a]	Minnesota Tier II Industrial SRV [a]
Methylene chloride	75-09-2	Water/Liquid	8260B	0.29	5.0	ug/L	5 (3)	--	--	--
Naphthalene	91-20-3	Water/Liquid	8260B	0.38	5.0	ug/L	300	--	--	--
n-Butylbenzene	104-51-8	Water/Liquid	8260B	0.094	2.5	ug/L	--	--	--	--
n-Propylbenzene	103-65-1	Water/Liquid	8260B	0.079	1.0	ug/L	--	--	--	--
o-Xylene	95-47-6	Water/Liquid	8260B	0.074	1.0	ug/L	10000 M	--	--	--
p-Isopropyltoluene	99-87-6	Water/Liquid	8260B	0.087	2.5	ug/L	--	--	--	--
sec-Butylbenzene	135-98-8	Water/Liquid	8260B	0.030	1.0	ug/L	--	--	--	--
Styrene	100-42-5	Water/Liquid	8260B	0.072	1.0	ug/L	--	--	--	--
tert-Butylbenzene	98-06-6	Water/Liquid	8260B	0.046	1.0	ug/L	--	--	--	--
Tetrachloroethene	127-18-4	Water/Liquid	8260B	0.10	1.0	ug/L	5 (3)	--	--	--
Tetrahydrofuran	109-99-9	Water/Liquid	8260B	0.76	20	ug/L	--	--	--	--
Toluene	108-88-3	Water/Liquid	8260B	0.036	1.0	ug/L	1000	--	--	--
trans-1,2-Dichloroethene	156-60-5	Water/Liquid	8260B	0.14	1.0	ug/L	100	--	--	--
trans-1,3-Dichloropropene	10061-02-6	Water/Liquid	8260B	0.082	1.0	ug/L	--	--	--	--
Trichloroethene	79-01-6	Water/Liquid	8260B	0.097	1.0	ug/L	5 (3)	--	--	--
Trichlorofluoromethane	75-69-4	Water/Liquid	8260B	0.17	1.0	ug/L	2000	--	--	--
Vinyl chloride	75-01-4	Water/Liquid	8260B	0.10	1.0	ug/L	0.2 (4)	--	--	--
SemiVolatile Organics										
1,2,4-Trichlorobenzene	120-82-1	Soil/Solid	8270C	0.020	0.33	mg/kg	--	0.31	200	985
1,2-Dichlorobenzene	95-50-1	Soil/Solid	8270C	0.012	0.33	mg/kg	--	8.1	26	75
1,2-Diphenylhydrazine as Azobenzene	103-33-3	Soil/Solid	8270C	0.039	0.33	mg/kg	--	--	--	--
1,3-Dichlorobenzene	541-73-1	Soil/Solid	8270C	0.014	0.33	mg/kg	--	4.2	26	200
1,4-Dichlorobenzene	106-46-7	Soil/Solid	8270C	0.013	0.33	mg/kg	--	0.13	30	50
2,3,4,6-Tetrachlorophenol	58-90-2	Soil/Solid	8270C	0.072	0.67	mg/kg	--	--	636	3700
2,4,5-Trichlorophenol	95-95-4	Soil/Solid	8270C	0.039	0.67	mg/kg	--	--	1920	10600
2,4,6-Trichlorophenol	88-06-2	Soil/Solid	8270C	0.081	0.67	mg/kg	--	0.21	595	1060
2,4-Dichlorophenol	120-83-2	Soil/Solid	8270C	0.046	0.67	mg/kg	--	0.076	46	230
2,4-Dimethylphenol	105-67-9	Soil/Solid	8270C	0.079	0.67	mg/kg	--	0.34	390	1925
2,4-Dinitrophenol	51-28-5	Soil/Solid	8270C	0.064	0.67	mg/kg	--	0.014	--	--
2,4-Dinitrotoluene	121-14-2	Soil/Solid	8270C	0.044	0.33	mg/kg	--	0.001	50	355
2,6-Dichlorophenol	87-65-0	Soil/Solid	8270C	0.042	0.67	mg/kg	--	--	--	--
2,6-Dinitrotoluene	606-20-2	Soil/Solid	8270C	0.040	0.33	mg/kg	--	0.001	25	175
2-Chloronaphthalene	91-58-7	Soil/Solid	8270C	0.018	0.33	mg/kg	--	--	--	--
2-Chlorophenol	95-57-8	Soil/Solid	8270C	0.029	0.67	mg/kg	--	0.26	--	--
2-Methylnaphthalene	91-57-6	Soil/Solid	8270C	0.021	0.33	mg/kg	--	--	100	369
2-Methylphenol	95-48-7	Soil/Solid	8270C	0.019	0.67	mg/kg	--	0.064	75	352
2-Nitroaniline	88-74-4	Soil/Solid	8270C	0.041	0.33	mg/kg	--	--	--	--
2-Nitrophenol	88-75-5	Soil/Solid	8270C	0.040	0.67	mg/kg	--	0.60	--	--
3,3'-Dichlorobenzidine	91-94-1	Soil/Solid	8270C	0.21	1.6	mg/kg	--	0.36	25	50
3-Nitroaniline	99-09-2	Soil/Solid	8270C	0.041	0.33	mg/kg	--	--	--	--
4,6-Dinitro-2-methylphenol	534-52-1	Soil/Solid	8270C	0.097	0.67	mg/kg	--	--	--	--
4-Bromophenyl phenyl ether	101-55-3	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	--	--
4-Chloro-3-methylphenol	59-50-7	Soil/Solid	8270C	0.075	0.67	mg/kg	--	--	--	--
4-Chloroaniline	106-47-8	Soil/Solid	8270C	0.022	0.67	mg/kg	--	--	--	--
4-Chlorophenyl phenyl ether	7005-72-3	Soil/Solid	8270C	0.024	0.33	mg/kg	--	--	--	--
4-Methylphenol	106-44-5	Soil/Solid	8270C	0.017	0.67	mg/kg	--	0.033	10	59
4-Nitroaniline	100-01-6	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	--	--
4-Nitrophenol	100-02-7	Soil/Solid	8270C	0.081	0.67	mg/kg	--	--	--	--
Acenaphthene	83-32-9	Soil/Solid	8270C	0.020	0.33	mg/kg	--	50	1200	5260
Acenaphthylene	208-96-8	Soil/Solid	8270C	0.031	0.33	mg/kg	--	--	--	--
Aniline	62-53-3	Soil/Solid	8270C	0.034	0.67	mg/kg	--	--	--	--
Anthracene	120-12-7	Soil/Solid	8270C	0.043	0.33	mg/kg	--	942	7880	45400
Benzidine	92-87-5	Soil/Solid	8270C	0.71	2.5	mg/kg	--	--	--	--
Benzo (a) anthracene	56-55-3	Soil/Solid	8270C	0.045	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (a) pyrene	50-32-8	Soil/Solid	8270C	0.049	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (b) fluoranthene	205-99-2	Soil/Solid	8270C	0.048	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (g,h,i) perylene	191-24-2	Soil/Solid	8270C	0.050	0.33	mg/kg	--	--	--	--
Benzo (k) fluoranthene	207-08-9	Soil/Solid	8270C	0.053	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzoic acid	65-85-0	Soil/Solid	8270C	0.036	0.33	mg/kg	--	30	50000	100000
Benzyl alcohol	100-51-6	Soil/Solid	8270C	0.11	0.67	mg/kg	--	--	8700	56000
Bis(2-chloroethoxy)methane	111-91-1	Soil/Solid	8270C	0.021	0.33	mg/kg	--	--	--	--
Bis(2-chloroethyl)ether	111-44-4	Soil/Solid	8270C	0.013	0.33	mg/kg	--	0.001	2.5	5
Bis(2-chloroisopropyl)ether	39638-32-9	Soil/Solid	8270C	0.017	0.33	mg/kg	--	--	--	--
Bis(2-ethylhexyl)phthalate	117-81-7	Soil/Solid	8270C	0.046	0.33	mg/kg	--	40	570	2100
Butyl benzyl phthalate	85-68-7	Soil/Solid	8270C	0.047	0.33	mg/kg	--	28	580	3700
Carbazole	86-74-8	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	700	1310
Chrysene	218-01-9	Soil/Solid	8270C	0.049	0.33	mg/kg	--	10.2 T	2 T	3 T
Dibenz (a,h) anthracene	53-70-3	Soil/Solid	8270C	0.053	0.33	mg/kg	--	10.2 T	2 T	3 T
Dibenzofuran	132-64-9	Soil/Solid	8270C	0.022	0.33	mg/kg	--	--	104	610

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits	Minnesota Tier SLV [4]	Minnesota SRV [5]	Minnesota Tier II Industrial SRV [6]
Diethyl phthalate	84-66-2	Soil/Solid	8270C	0.045	0.33	mg/kg	--	18	--	--
Dimethyl phthalate	131-11-3	Soil/Solid	8270C	0.043	0.33	mg/kg	--	172	--	--
Di-n-butyl phthalate	84-74-2	Soil/Solid	8270C	0.054	0.33	mg/kg	--	23	2440	16300
Di-n-octyl phthalate	117-84-0	Soil/Solid	8270C	0.056	0.33	mg/kg	--	--	520	3700
Fluoranthene	206-44-0	Soil/Solid	8270C	0.047	0.33	mg/kg	--	295	1080	6800
Fluorene	86-73-7	Soil/Solid	8270C	0.011	0.33	mg/kg	--	47	850	4120
Hexachlorobenzene	118-74-1	Soil/Solid	8270C	0.041	0.33	mg/kg	--	0.32	5	9
Hexachlorobutadiene	87-68-3	Soil/Solid	8270C	0.035	0.33	mg/kg	--	25	6	37
Hexachlorocyclopentadiene	77-47-4	Soil/Solid	8270C	0.030	0.33	mg/kg	--	4.4	2	6
Hexachloroethane	67-72-1	Soil/Solid	8270C	0.018	0.33	mg/kg	--	0.050	--	--
Indeno (1,2,3-cd) pyrene	193-39-5	Soil/Solid	8270C	0.042	0.33	mg/kg	--	10.2 T	2 T	3 T
Isophorone	78-59-1	Soil/Solid	8270C	0.018	0.33	mg/kg	--	0.16	--	--
Naphthalene	91-20-3	Soil/Solid	8270C	0.015	0.33	mg/kg	--	7.5	10	28
Nitrobenzene	98-95-3	Soil/Solid	8270C	0.014	0.33	mg/kg	--	--	--	--
N-Nitrosodimethylamine	62-75-9	Soil/Solid	8270C	0.028	0.33	mg/kg	--	0.82	--	--
N-Nitrosodi-n-propylamine	621-64-7	Soil/Solid	8270C	0.014	0.33	mg/kg	--	--	0.7	1.2
N-Nitrosodiphenylamine ***	86-30-6	Soil/Solid	8270C	0.045	0.33	mg/kg	--	0.88	1950	3720
Diphenylamine ***	122-39-4	Soil/Solid	8270C	--	--	--	--	--	--	--
Pentachlorophenol	87-86-5	Soil/Solid	8270C	0.081	0.67	mg/kg	--	0.034	80	120
Phenanthrene	85-01-8	Soil/Solid	8270C	0.026	0.33	mg/kg	--	--	--	--
Phenol	108-95-2	Soil/Solid	8270C	0.027	0.67	mg/kg	--	7.8	1500	20203
Pyrene	129-00-0	Soil/Solid	8270C	0.046	0.33	mg/kg	--	272	890	5800
2,4-Dinitrotoluene (DNT)	121-14-2	Soil/Solid	8270C	0.063	3.0	mg/kg	--	0.001	50	355
2,6-Dinitrotoluene (DNT)	606-20-2	Soil/Solid	8270C	0.13	3.0	mg/kg	--	0.001	25	175
SemiVolatile Organics										
1,2,4-Trichlorobenzene	120-82-1	Water/Liquid	8270C	0.28	10	ug/L	--	--	--	--
1,2-Dichlorobenzene	95-50-1	Water/Liquid	8270C	0.21	10	ug/L	600	--	--	--
1,2-Diphenylhydrazine as Azobenzene	103-33-3	Water/Liquid	8270C	0.20	10	ug/L	--	--	--	--
1,3-Dichlorobenzene	541-73-1	Water/Liquid	8270C	0.21	10	ug/L	--	--	--	--
1,4-Dichlorobenzene	106-46-7	Water/Liquid	8270C	0.18	10	ug/L	10	--	--	--
2,3,4,6-Tetrachlorophenol	58-90-2	Water/Liquid	8270C	1.0	10	ug/L	--	--	--	--
2,4,5-Trichlorophenol	95-95-4	Water/Liquid	8270C	0.85	10	ug/L	--	--	--	--
2,4,6-Trichlorophenol	88-06-2	Water/Liquid	8270C	0.89	10	ug/L	30	--	--	--
2,4-Dichlorophenol	120-83-2	Water/Liquid	8270C	0.78	10	ug/L	20	--	--	--
2,4-Dimethylphenol	105-67-9	Water/Liquid	8270C	0.78	10	ug/L	100	--	--	--
2,4-Dinitrophenol	51-28-5	Water/Liquid	8270C	0.50	10	ug/L	10	--	--	--
2,4-Dinitrotoluene	121-14-2	Water/Liquid	8270C	0.49	10	ug/L	0.5 (2)	--	--	--
2,6-Dichlorophenol	87-65-0	Water/Liquid	8270C	0.78	10	ug/L	--	--	--	--
2,6-Dinitrotoluene	606-20-2	Water/Liquid	8270C	0.39	10	ug/L	0.5 (2)	--	--	--
2-Chloronaphthalene	91-58-7	Water/Liquid	8270C	0.20	10	ug/L	--	--	--	--
2-Chlorophenol	95-57-8	Water/Liquid	8270C	0.66	10	ug/L	30	--	--	--
2-Methylnaphthalene	91-57-6	Water/Liquid	8270C	0.32	10	ug/L	--	--	--	--
2-Methylphenol	95-48-7	Water/Liquid	8270C	0.77	10	ug/L	30	--	--	--
2-Nitroaniline	88-74-4	Water/Liquid	8270C	0.92	10	ug/L	--	--	--	--
2-Nitrophenol	88-75-5	Water/Liquid	8270C	1.0	10	ug/L	--	--	--	--
3,3'-Dichlorobenzidine	91-94-1	Water/Liquid	8270C	7.1	25	ug/L	0.8	--	--	--
3-Nitroaniline	99-09-2	Water/Liquid	8270C	0.95	10	ug/L	--	--	--	--
4,6-Dinitro-2-methylphenol	534-52-1	Water/Liquid	8270C	0.90	10	ug/L	--	--	--	--
4-Bromophenyl phenyl ether	101-55-3	Water/Liquid	8270C	0.19	10	ug/L	--	--	--	--
4-Chloro-3-methylphenol	59-50-7	Water/Liquid	8270C	0.79	10	ug/L	--	--	--	--
4-Chloroaniline	106-47-8	Water/Liquid	8270C	1.0	10	ug/L	--	--	--	--
4-Chlorophenol	106-48-9	Water/Liquid	8270C	NA	NA	ug/L	--	--	--	--
4-Chlorophenyl phenyl ether	7005-72-3	Water/Liquid	8270C	0.15	10	ug/L	--	--	--	--
4-Methylphenol	106-44-5	Water/Liquid	8270C	0.82	10	ug/L	3	--	--	--
4-Nitroaniline	100-01-6	Water/Liquid	8270C	0.63	10	ug/L	--	--	--	--
4-Nitrophenol	100-02-7	Water/Liquid	8270C	1.2	10	ug/L	--	--	--	--
Acenaphthene	83-32-9	Water/Liquid	8270C	0.15	10	ug/L	400	--	--	--
Acenaphthylene	208-96-8	Water/Liquid	8270C	0.17	10	ug/L	--	--	--	--
Aniline	62-53-3	Water/Liquid	8270C	0.97	10	ug/L	--	--	--	--
Anthracene	120-12-7	Water/Liquid	8270C	0.19	10	ug/L	2000	--	--	--
Benzidine	92-87-5	Water/Liquid	8270C	23	100	ug/L	--	--	--	--
Benzo (a) anthracene	56-55-3	Water/Liquid	8270C	0.18	10	ug/L	--	--	--	--
Benzo (a) pyrene	50-32-8	Water/Liquid	8270C	0.22	10	ug/L	--	--	--	--
Benzo (b) fluoranthene	205-99-2	Water/Liquid	8270C	0.18	10	ug/L	--	--	--	--
Benzo (g,h,i) perylene	191-24-2	Water/Liquid	8270C	0.24	10	ug/L	--	--	--	--
Benzo (k) fluoranthene	207-08-9	Water/Liquid	8270C	0.21	10	ug/L	--	--	--	--
Benzoic acid	65-85-0	Water/Liquid	8270C	0.75	10	ug/L	30000	--	--	--
Benzyl alcohol	100-51-6	Water/Liquid	8270C	0.66	10	ug/L	--	--	--	--
Bis(2-chloroethoxy)methane	111-91-1	Water/Liquid	8270C	0.21	10	ug/L	--	--	--	--

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [3]	Minnesota Tier SLV [4]	Minnesota SRV [5]	Minnesota Tier II Industrial SRV [6]
Bis(2-chloroethyl)ether	111-44-4	Water/Liquid	8270C	0.21	10	ug/L	0.3	--	--	--
Bis(2-chloroisopropyl)ether	39638-32-9	Water/Liquid	8270C	0.14	10	ug/L	--	--	--	--
Bis(2-ethylhexyl)phthalate	117-81-7	Water/Liquid	8270C	0.45	10	ug/L	20 (1)	--	--	--
Butyl benzyl phthalate	85-68-7	Water/Liquid	8270C	0.33	10	ug/L	100	--	--	--
Carbazole	86-74-8	Water/Liquid	8270C	0.24	10	ug/L	--	--	--	--
Chrysene	218-01-9	Water/Liquid	8270C	0.15	10	ug/L	--	--	--	--
Dibenz (a,h) anthracene	53-70-3	Water/Liquid	8270C	0.25	10	ug/L	--	--	--	--
Dibenzofuran	132-64-9	Water/Liquid	8270C	0.27	10	ug/L	--	--	--	--
Diethyl phthalate	84-66-2	Water/Liquid	8270C	0.32	10	ug/L	6000	--	--	--
Dimethyl phthalate	131-11-3	Water/Liquid	8270C	0.26	10	ug/L	70000	--	--	--
Di-n-butyl phthalate	84-74-2	Water/Liquid	8270C	0.33	10	ug/L	700	--	--	--
Di-n-octyl phthalate	117-84-0	Water/Liquid	8270C	0.42	10	ug/L	--	--	--	--
Fluoranthene	206-44-0	Water/Liquid	8270C	0.23	10	ug/L	300	--	--	--
Fluorene	86-73-7	Water/Liquid	8270C	0.16	10	ug/L	300	--	--	--
Hexachlorobenzene	118-74-1	Water/Liquid	8270C	0.15	10	ug/L	0.2	--	--	--
Hexachlorobutadiene	87-68-3	Water/Liquid	8270C	0.34	10	ug/L	1	--	--	--
Hexachlorocyclopentadiene	77-47-4	Water/Liquid	8270C	0.22	10	ug/L	--	--	--	--
Hexachloroethane	67-72-1	Water/Liquid	8270C	0.30	10	ug/L	--	--	--	--
Indeno (1,2,3-cd) pyrene	193-39-5	Water/Liquid	8270C	0.19	10	ug/L	--	--	--	--
Isophorone	78-59-1	Water/Liquid	8270C	0.23	10	ug/L	100	--	--	--
Naphthalene	91-20-3	Water/Liquid	8270C	0.19	10	ug/L	300	--	--	--
Nitrobenzene	98-95-3	Water/Liquid	8270C	0.26	10	ug/L	--	--	--	--
N-Nitrosodimethylamine	62-75-9	Water/Liquid	8270C	0.30	10	ug/L	--	--	--	--
N-Nitrosodi-n-propylamine	621-64-7	Water/Liquid	8270C	0.28	10	ug/L	--	--	--	--
N-Nitrosodiphenylamine ***	86-30-6	Water/Liquid	8270C	0.27	10	ug/L	70	--	--	--
Diphenylamine ***	122-39-4	Water/Liquid	8270C	--	--	--	--	--	--	--
Pentachlorophenol	87-86-5	Water/Liquid	8270C	0.99	10	ug/L	1 (3)	--	--	--
Phenanthrene	85-01-8	Water/Liquid	8270C	0.13	10	ug/L	--	--	--	--
Phenol	108-95-2	Water/Liquid	8270C	0.59	10	ug/L	4000	--	--	--
Pyrene	129-00-0	Water/Liquid	8270C	0.24	10	ug/L	200	--	--	--

Notes:
M - the values with this notation indicate the limit is for all combined isomers of this compound
T - the values with this notation represent the limit for the total carcinogenic PAHs as BaP
C - Mercury as mercuric chloride
(TA) - Legend Technical Services, Inc. will subcontract this analysis to Test America, West Sacramento, California.
(Braun) - Legend Technical Services, Inc. will subcontract this analysis to Braun Intertec, Minneapolis, MN.
(1) Not a HRL but a Health Based Value (HBV)
(2) (SRL)-Specific Risk Level (water concentration which corresponds to a riskof 1E-5.
(3) Not a HRL but an EPA Maximum Contaminant Level (MCL).
(4) Value is representative of the lowest exposure duration published in the 2008 Health Risk Limits.
(5) Value represents the criteria for Chromium, hexavalent.
(6) Set at short-term HRL.
(7) Not a HRL, but a Risk Assessment Advice (RAA).
(8) Value represents the criteria for Chromium, Trivalent.
[3] - Minnesota Department of Health, Health Risk Limit (HRL) unless noted otherwise.
[4] - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Soil Leaching Value (SLV)
[5] - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Soil Reference Value (SRV)
[6] - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Tier II Industrial SRV.

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September 21, 2009

Ms. Kelly Neppl
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0903923
RE: 23/19-0B05.07

Enclosed are the results of analyses for samples received by the laboratory on 09/04/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of this report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

Terri Olson
Client Manager II
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Erica Nastrom
QA/QC Coordinator
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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903923
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC5-GP15 (0.5-4)	0903923-01	Soil	09/03/09 08:45	09/04/09 12:00
SOC5-GP16 (0.5-4)	0903923-02	Soil	09/03/09 09:00	09/04/09 12:00
SOC5-GP17 (0.5-4)	0903923-03	Soil	09/03/09 09:30	09/04/09 12:00
SOC5-GP18 (0.5-4)	0903923-04	Soil	09/03/09 10:15	09/04/09 12:00
SOC5-GP19 (1-4)	0903923-05	Soil	09/03/09 10:30	09/04/09 12:00
SOC5-GP20 (0.5-4)	0903923-06	Soil	09/03/09 10:45	09/04/09 12:00
SOC5-GP21 (0.5-4)	0903923-07	Soil	09/03/09 11:15	09/04/09 12:00
SOC5-GP22 (0.5-4)	0903923-08	Soil	09/03/09 11:30	09/04/09 12:00
SOC5-GP23 (0.5-4)	0903923-09	Soil	09/03/09 11:45	09/04/09 12:00
SOC5-GP24 (0.5-2.5)	0903923-10	Soil	09/03/09 12:45	09/04/09 12:00
SOC5-GP25 (1-3)	0903923-12	Soil	09/03/09 13:05	09/04/09 12:00
SOC5-GP26 (0.5-4)	0903923-13	Soil	09/03/09 13:15	09/04/09 12:00

Shipping Container Information

Default Cooler Temperature (°C): 4.7

Received on ice: Yes
Received on melt water: No
Custody seals: Yes

Temperature blank was present
Ambient: No

Received on ice pack: No
Acceptable (IH/ISO only): No

Case Narrative:

MN Certification does not apply to carbazole in the 8270C analysis.

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UMP019224

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Barr Engineering Co.	Project:	23/19-0B05.07			
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300		Work Order #:	0903923
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/21/09

PERCENT SOLIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP15 (0.5-4) (0903923-01) Soil Sampled: 09/03/09 08:45 Received: 09/04/09 12:00										
% Solids	**90**			%	1	B9I1605	09/16/09	09/16/09	% calculation	
SOC5-GP16 (0.5-4) (0903923-02) Soil Sampled: 09/03/09 09:00 Received: 09/04/09 12:00										
% Solids	**87**			%	1	B9I1605	09/16/09	09/16/09	% calculation	
SOC5-GP17 (0.5-4) (0903923-03) Soil Sampled: 09/03/09 09:30 Received: 09/04/09 12:00										
% Solids	**86**			%	1	B9I1605	09/16/09	09/16/09	% calculation	
SOC5-GP18 (0.5-4) (0903923-04) Soil Sampled: 09/03/09 10:15 Received: 09/04/09 12:00										
% Solids	**86**			%	1	B9I1605	09/16/09	09/16/09	% calculation	
SOC5-GP19 (1-4) (0903923-05) Soil Sampled: 09/03/09 10:30 Received: 09/04/09 12:00										
% Solids	**92**			%	1	B9I1605	09/16/09	09/16/09	% calculation	
SOC5-GP20 (0.5-4) (0903923-06) Soil Sampled: 09/03/09 10:45 Received: 09/04/09 12:00										
% Solids	**94**			%	1	B9I1605	09/16/09	09/16/09	% calculation	
SOC5-GP21 (0.5-4) (0903923-07) Soil Sampled: 09/03/09 11:15 Received: 09/04/09 12:00										
% Solids	**89**			%	1	B9I1605	09/16/09	09/16/09	% calculation	
SOC5-GP22 (0.5-4) (0903923-08) Soil Sampled: 09/03/09 11:30 Received: 09/04/09 12:00										
% Solids	**83**			%	1	B9I1605	09/16/09	09/16/09	% calculation	
SOC5-GP23 (0.5-4) (0903923-09) Soil Sampled: 09/03/09 11:45 Received: 09/04/09 12:00										
% Solids	**87**			%	1	B9I1605	09/16/09	09/16/09	% calculation	
SOC5-GP24 (0.5-2.5) (0903923-10) Soil Sampled: 09/03/09 12:45 Received: 09/04/09 12:00										
% Solids	**94**			%	1	B9I1605	09/16/09	09/16/09	% calculation	
SOC5-GP25 (1-3) (0903923-12) Soil Sampled: 09/03/09 13:05 Received: 09/04/09 12:00										
% Solids	**98**			%	1	B9I1605	09/16/09	09/16/09	% calculation	
SOC5-GP26 (0.5-4) (0903923-13) Soil Sampled: 09/03/09 13:15 Received: 09/04/09 12:00										
% Solids	**85**			%	1	B9I1605	09/16/09	09/16/09	% calculation	

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Barr Engineering Co.	Project:	23/19-0B05.07			
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300		Work Order #:	0903923
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/21/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP15 (0.5-4) (0903923-01) Soil	**Sampled: 09/03/09 08:45**			**Received: 09/04/09 12:00**						
1,2,4-Trichlorobenzene	<0.030	0.37	0.030	mg/kg dry	1	B9I0910	09/09/09	09/10/09	EPA 8270C	
1,2-Dichlorobenzene	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.022	0.37	0.022	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.027	0.37	0.027	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.042	0.74	0.042	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.027	0.74	0.027	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.039	0.74	0.039	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.039	0.74	0.039	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.74	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.064	0.74	0.064	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.023	0.37	0.023	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.048	0.74	0.048	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.042	0.74	0.042	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.031	0.37	0.031	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.039	0.74	0.039	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.022	0.37	0.022	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.040	0.74	0.040	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.43	1.8	0.43	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.037	0.37	0.037	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.082	0.74	0.082	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.019	0.37	0.019	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.044	0.74	0.044	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.12	0.74	0.12	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.030	0.74	0.030	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.74	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.031	0.37	0.031	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.74	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
Benzidine	<0.80	2.8	0.80	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.030	0.37	0.030	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.030	0.37	0.030	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.038	0.37	0.038	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.033	0.37	0.033	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903923
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP15 (0.5-4) (0903923-01) Soil	**Sampled: 09/03/09 08:45**			**Received: 09/04/09 12:00**						
Benzo (k) fluoranthene	<0.034	0.37	0.034	mg/kg dry	1	B9I0910	09/09/09	09/10/09	EPA 8270C	
Benzoic acid	<0.064	0.37	0.064	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.13	0.74	0.13	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.023	0.37	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.027	0.37	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.024	0.37	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.022	0.37	0.022	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.023	0.37	0.023	mg/kg dry	1	"	"	"	"	
Carbazole	<0.024	0.37	0.024	mg/kg dry	1	"	"	"	"	
Chrysene	<0.037	0.37	0.037	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.038	0.37	0.038	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.017	0.37	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.020	0.37	0.020	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.041	0.37	0.041	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.027	0.37	0.027	mg/kg dry	1	"	"	"	"	
Fluorene	<0.020	0.37	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.018	0.37	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.037	0.37	0.037	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.046	0.37	0.046	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.031	0.37	0.031	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.036	0.37	0.036	mg/kg dry	1	"	"	"	"	
Isophorone	<0.019	0.37	0.019	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.032	0.37	0.032	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.033	0.37	0.033	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.036	0.37	0.036	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.020	0.37	0.020	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.74	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
Phenol	<0.063	0.74	0.063	mg/kg dry	1	"	"	"	"	
Pyrene	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*64.1*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*66.1*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*66.2*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*61.3*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*69.4*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*81.2*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903923
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP16 (0.5-4) (0903923-02) Soil	**Sampled: 09/03/09 09:00**			**Received: 09/04/09 12:00**						
1,2,4-Trichlorobenzene	<0.031	0.38	0.031	mg/kg dry	1	B9I0910	09/09/09	09/11/09	EPA 8270C	
1,2-Dichlorobenzene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.044	0.77	0.044	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.028	0.77	0.028	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.77	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.067	0.77	0.067	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.049	0.77	0.049	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.044	0.77	0.044	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.041	0.77	0.041	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.45	1.8	0.45	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.085	0.77	0.085	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.046	0.77	0.046	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.77	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.031	0.77	0.031	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.77	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.77	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Benzidine	<0.83	2.9	0.83	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.039	0.38	0.039	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903923
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP16 (0.5-4) (0903923-02) Soil	**Sampled: 09/03/09 09:00**			**Received: 09/04/09 12:00**						
Benzo (k) fluoranthene	<0.036	0.38	0.036	mg/kg dry	1	B9I0910	09/09/09	09/11/09	EPA 8270C	
Benzoic acid	<0.067	0.38	0.067	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.77	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.025	0.38	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Carbazole	<0.025	0.38	0.025	mg/kg dry	1	"	"	"	"	
Chrysene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.039	0.38	0.039	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.017	0.38	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.043	0.38	0.043	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Fluorene	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.018	0.38	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.047	0.38	0.047	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.77	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.066	0.77	0.066	mg/kg dry	1	"	"	"	"	
Pyrene	**0.030**	0.38	0.026	mg/kg dry	1	"	"	"	"	J
Surrogate: 2,4,6-Tribromophenol	*64.7*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*77.6*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*72.2*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*71.5*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*78.3*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*97.0*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903923
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP17 (0.5-4) (0903923-03) Soil	**Sampled: 09/03/09 09:30**			**Received: 09/04/09 12:00**						
1,2,4-Trichlorobenzene	<0.031	0.38	0.031	mg/kg dry	1	B9I0910	09/09/09	09/11/09	EPA 8270C	
1,2-Dichlorobenzene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.044	0.78	0.044	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.028	0.78	0.028	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.041	0.78	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.041	0.78	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.78	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.067	0.78	0.067	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.050	0.78	0.050	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.044	0.78	0.044	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.041	0.78	0.041	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.042	0.78	0.042	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.45	1.9	0.45	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.086	0.78	0.086	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.047	0.78	0.047	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.78	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.031	0.78	0.031	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.78	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.78	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Benzidine	<0.84	2.9	0.84	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.040	0.38	0.040	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.035	0.38	0.035	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903923
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP17 (0.5-4) (0903923-03) Soil	**Sampled: 09/03/09 09:30**			**Received: 09/04/09 12:00**						
Benzo (k) fluoranthene	<0.036	0.38	0.036	mg/kg dry	1	B9I0910	09/09/09	09/11/09	EPA 8270C	
Benzoic acid	<0.067	0.38	0.067	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.78	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Carbazole	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Chrysene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.040	0.38	0.040	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.017	0.38	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.043	0.38	0.043	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Fluoranthene	**0.043**	0.38	0.028	mg/kg dry	1	"	"	"	"	J
Fluorene	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.019	0.38	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.048	0.38	0.048	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.035	0.38	0.035	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.78	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.066	0.78	0.066	mg/kg dry	1	"	"	"	"	
Pyrene	**0.044**	0.38	0.027	mg/kg dry	1	"	"	"	"	J
Surrogate: 2,4,6-Tribromophenol	*71.7*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*75.5*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*76.0*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*71.2*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*78.2*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*90.5*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903923
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP18 (0.5-4) (0903923-04) Soil	**Sampled: 09/03/09 10:15**			**Received: 09/04/09 12:00**						
1,2,4-Trichlorobenzene	<0.031	0.38	0.031	mg/kg dry	1	B9I0910	09/09/09	09/11/09	EPA 8270C	
1,2-Dichlorobenzene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.044	0.78	0.044	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.028	0.78	0.028	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.041	0.78	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.041	0.78	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.78	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.067	0.78	0.067	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.050	0.78	0.050	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.044	0.78	0.044	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.041	0.78	0.041	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.042	0.78	0.042	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.45	1.9	0.45	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.086	0.78	0.086	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.047	0.78	0.047	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.78	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.031	0.78	0.031	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.78	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.78	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Benzidine	<0.84	2.9	0.84	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.040	0.38	0.040	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.035	0.38	0.035	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903923
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP18 (0.5-4) (0903923-04) Soil	**Sampled: 09/03/09 10:15**			**Received: 09/04/09 12:00**						
Benzo (k) fluoranthene	<0.036	0.38	0.036	mg/kg dry	1	B9I0910	09/09/09	09/11/09	EPA 8270C	
Benzoic acid	<0.067	0.38	0.067	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.78	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Carbazole	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Chrysene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.040	0.38	0.040	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.017	0.38	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.043	0.38	0.043	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Fluorene	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.019	0.38	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.048	0.38	0.048	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.035	0.38	0.035	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.78	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.066	0.78	0.066	mg/kg dry	1	"	"	"	"	
Pyrene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*70.0*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*82.3*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*77.5*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*74.3*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*81.5*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*97.8*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903923
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP19 (1-4) (0903923-05) Soil Sampled: 09/03/09 10:30 Received: 09/04/09 12:00										
1,2,4-Trichlorobenzene	<0.029	0.36	0.029	mg/kg dry	1	B9I0910	09/09/09	09/11/09	EPA 8270C	
1,2-Dichlorobenzene	<0.027	0.36	0.027	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.022	0.36	0.022	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.025	0.36	0.025	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.026	0.36	0.026	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.041	0.73	0.041	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.026	0.73	0.026	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.038	0.73	0.038	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.038	0.73	0.038	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.098	0.73	0.098	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.063	0.73	0.063	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.023	0.36	0.023	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.047	0.73	0.047	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.021	0.36	0.021	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.021	0.36	0.021	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.041	0.73	0.041	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.030	0.36	0.030	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.038	0.73	0.038	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.022	0.36	0.022	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.039	0.73	0.039	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.42	1.7	0.42	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.036	0.36	0.036	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.080	0.73	0.080	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.018	0.36	0.018	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.043	0.73	0.043	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.12	0.73	0.12	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.025	0.36	0.025	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.029	0.73	0.029	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.025	0.36	0.025	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.73	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.030	0.36	0.030	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.025	0.36	0.025	mg/kg dry	1	"	"	"	"	
Aniline	<0.098	0.73	0.098	mg/kg dry	1	"	"	"	"	
Anthracene	<0.027	0.36	0.027	mg/kg dry	1	"	"	"	"	
Benzidine	<0.78	2.7	0.78	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.029	0.36	0.029	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.029	0.36	0.029	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.037	0.36	0.037	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.033	0.36	0.033	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903923
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP19 (1-4) (0903923-05) Soil Sampled: 09/03/09 10:30 Received: 09/04/09 12:00										
Benzo (k) fluoranthene	<0.034	0.36	0.034	mg/kg dry	1	B9I0910	09/09/09	09/11/09	EPA 8270C	
Benzoic acid	<0.063	0.36	0.063	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.13	0.73	0.13	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.023	0.36	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.026	0.36	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.024	0.36	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.022	0.36	0.022	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.023	0.36	0.023	mg/kg dry	1	"	"	"	"	
Carbazole	<0.024	0.36	0.024	mg/kg dry	1	"	"	"	"	
Chrysene	<0.036	0.36	0.036	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.037	0.36	0.037	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.021	0.36	0.021	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.016	0.36	0.016	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.020	0.36	0.020	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.040	0.36	0.040	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.027	0.36	0.027	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.026	0.36	0.026	mg/kg dry	1	"	"	"	"	
Fluorene	<0.020	0.36	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.017	0.36	0.017	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.036	0.36	0.036	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.045	0.36	0.045	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.030	0.36	0.030	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.035	0.36	0.035	mg/kg dry	1	"	"	"	"	
Isophorone	<0.018	0.36	0.018	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.032	0.36	0.032	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.033	0.36	0.033	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.035	0.36	0.035	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.027	0.36	0.027	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.020	0.36	0.020	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.10	0.73	0.10	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.021	0.36	0.021	mg/kg dry	1	"	"	"	"	
Phenol	<0.062	0.73	0.062	mg/kg dry	1	"	"	"	"	
Pyrene	<0.025	0.36	0.025	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*69.7*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*74.9*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*75.4*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*70.9*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*77.8*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*88.0*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903923
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP20 (0.5-4) (0903923-06) Soil	**Sampled: 09/03/09 10:45**			**Received: 09/04/09 12:00**						
1,2,4-Trichlorobenzene	<0.029	0.35	0.029	mg/kg dry	1	B9I0910	09/09/09	09/11/09	EPA 8270C	
1,2-Dichlorobenzene	<0.027	0.35	0.027	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.021	0.35	0.021	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.026	0.35	0.026	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.040	0.71	0.040	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.026	0.71	0.026	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.037	0.71	0.037	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.037	0.71	0.037	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.096	0.71	0.096	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.062	0.71	0.062	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.046	0.71	0.046	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.040	0.71	0.040	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.030	0.35	0.030	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.037	0.71	0.037	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.021	0.35	0.021	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.038	0.71	0.038	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.41	1.7	0.41	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.035	0.35	0.035	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.079	0.71	0.079	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.018	0.35	0.018	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.043	0.71	0.043	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.12	0.71	0.12	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.029	0.71	0.029	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.71	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.030	0.35	0.030	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
Aniline	<0.096	0.71	0.096	mg/kg dry	1	"	"	"	"	
Anthracene	<0.027	0.35	0.027	mg/kg dry	1	"	"	"	"	
Benzidine	<0.77	2.7	0.77	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.029	0.35	0.029	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.029	0.35	0.029	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.036	0.35	0.036	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.032	0.35	0.032	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903923
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP20 (0.5-4) (0903923-06) Soil	**Sampled: 09/03/09 10:45**			**Received: 09/04/09 12:00**						
Benzo (k) fluoranthene	<0.033	0.35	0.033	mg/kg dry	1	B9I0910	09/09/09	09/11/09	EPA 8270C	
Benzoic acid	<0.062	0.35	0.062	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.13	0.71	0.13	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.026	0.35	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.023	0.35	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.021	0.35	0.021	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
Carbazole	<0.023	0.35	0.023	mg/kg dry	1	"	"	"	"	
Chrysene	<0.035	0.35	0.035	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.036	0.35	0.036	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.016	0.35	0.016	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.019	0.35	0.019	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.039	0.35	0.039	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.027	0.35	0.027	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.026	0.35	0.026	mg/kg dry	1	"	"	"	"	
Fluorene	<0.019	0.35	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.017	0.35	0.017	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.035	0.35	0.035	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.044	0.35	0.044	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.030	0.35	0.030	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.034	0.35	0.034	mg/kg dry	1	"	"	"	"	
Isophorone	<0.018	0.35	0.018	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.031	0.35	0.031	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.032	0.35	0.032	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.034	0.35	0.034	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.027	0.35	0.027	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.019	0.35	0.019	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.10	0.71	0.10	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
Phenol	<0.061	0.71	0.061	mg/kg dry	1	"	"	"	"	
Pyrene	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*65.2*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*69.2*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*69.8*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*67.0*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*71.1*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*86.1*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903923
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP21 (0.5-4) (0903923-07) Soil	**Sampled: 09/03/09 11:15**			**Received: 09/04/09 12:00**						
1,2,4-Trichlorobenzene	<0.030	0.37	0.030	mg/kg dry	1	B9I0910	09/09/09	09/11/09	EPA 8270C	
1,2-Dichlorobenzene	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.022	0.37	0.022	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.027	0.37	0.027	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.043	0.75	0.043	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.027	0.75	0.027	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.039	0.75	0.039	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.039	0.75	0.039	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.75	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.065	0.75	0.065	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.024	0.37	0.024	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.048	0.75	0.048	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.043	0.75	0.043	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.031	0.37	0.031	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.039	0.75	0.039	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.022	0.37	0.022	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.040	0.75	0.040	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.44	1.8	0.44	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.037	0.37	0.037	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.083	0.75	0.083	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.019	0.37	0.019	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.045	0.75	0.045	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.12	0.75	0.12	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.030	0.75	0.030	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.75	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.031	0.37	0.031	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.75	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
Benzidine	<0.81	2.8	0.81	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.030	0.37	0.030	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.030	0.37	0.030	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.038	0.37	0.038	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.034	0.37	0.034	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07			
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300		Work Order #:	0903923
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/21/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP21 (0.5-4) (0903923-07) Soil	**Sampled: 09/03/09 11:15**			**Received: 09/04/09 12:00**						
Benzo (k) fluoranthene	<0.035	0.37	0.035	mg/kg dry	1	B9I0910	09/09/09	09/11/09	EPA 8270C	
Benzoic acid	<0.065	0.37	0.065	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.13	0.75	0.13	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.024	0.37	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.027	0.37	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.025	0.37	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.022	0.37	0.022	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.024	0.37	0.024	mg/kg dry	1	"	"	"	"	
Carbazole	<0.025	0.37	0.025	mg/kg dry	1	"	"	"	"	
Chrysene	<0.037	0.37	0.037	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.038	0.37	0.038	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.017	0.37	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.020	0.37	0.020	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.042	0.37	0.042	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.027	0.37	0.027	mg/kg dry	1	"	"	"	"	
Fluorene	<0.020	0.37	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.018	0.37	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.037	0.37	0.037	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.046	0.37	0.046	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.031	0.37	0.031	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.036	0.37	0.036	mg/kg dry	1	"	"	"	"	
Isophorone	<0.019	0.37	0.019	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.033	0.37	0.033	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.034	0.37	0.034	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.036	0.37	0.036	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.020	0.37	0.020	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.75	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
Phenol	<0.064	0.75	0.064	mg/kg dry	1	"	"	"	"	
Pyrene	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*72.1*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*80.0*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*78.3*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*74.9*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*81.4*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*98.7*			*43.6-112 %*		"	"	"	"	

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LEGEND Technical Services, Inc.
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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903923
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP22 (0.5-4) (0903923-08) Soil	**Sampled: 09/03/09 11:30**			**Received: 09/04/09 12:00**						
1,2,4-Trichlorobenzene	<0.033	0.40	0.033	mg/kg dry	1	B9I0910	09/09/09	09/11/09	EPA 8270C	
1,2-Dichlorobenzene	<0.030	0.40	0.030	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.024	0.40	0.024	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.029	0.40	0.029	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.046	0.81	0.046	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.029	0.81	0.029	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.042	0.81	0.042	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.042	0.81	0.042	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.81	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.070	0.81	0.070	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.025	0.40	0.025	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.052	0.81	0.052	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.023	0.40	0.023	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.023	0.40	0.023	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.046	0.81	0.046	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.034	0.40	0.034	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.042	0.81	0.042	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.024	0.40	0.024	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.043	0.81	0.043	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.47	1.9	0.47	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.040	0.40	0.040	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.089	0.81	0.089	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.40	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.048	0.81	0.048	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.81	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.033	0.81	0.033	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.81	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.034	0.40	0.034	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
Aniline	<0.11	0.81	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	<0.030	0.40	0.030	mg/kg dry	1	"	"	"	"	
Benzidine	<0.87	3.0	0.87	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.033	0.40	0.033	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.033	0.40	0.033	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.041	0.40	0.041	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.036	0.40	0.036	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903923
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP22 (0.5-4) (0903923-08) Soil	**Sampled: 09/03/09 11:30**			**Received: 09/04/09 12:00**						
Benzo (k) fluoranthene	<0.037	0.40	0.037	mg/kg dry	1	B9I0910	09/09/09	09/11/09	EPA 8270C	
Benzoic acid	<0.070	0.40	0.070	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.81	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.025	0.40	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.029	0.40	0.029	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.027	0.40	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.024	0.40	0.024	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.025	0.40	0.025	mg/kg dry	1	"	"	"	"	
Carbazole	<0.027	0.40	0.027	mg/kg dry	1	"	"	"	"	
Chrysene	<0.040	0.40	0.040	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.041	0.40	0.041	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.023	0.40	0.023	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.018	0.40	0.018	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.022	0.40	0.022	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.045	0.40	0.045	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.030	0.40	0.030	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.029	0.40	0.029	mg/kg dry	1	"	"	"	"	
Fluorene	<0.022	0.40	0.022	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.019	0.40	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.040	0.40	0.040	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.049	0.40	0.049	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.034	0.40	0.034	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.039	0.40	0.039	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.40	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.035	0.40	0.035	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.036	0.40	0.036	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.039	0.40	0.039	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.030	0.40	0.030	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.022	0.40	0.022	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.12	0.81	0.12	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.023	0.40	0.023	mg/kg dry	1	"	"	"	"	
Phenol	<0.069	0.81	0.069	mg/kg dry	1	"	"	"	"	
Pyrene	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*65.2*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*70.6*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*69.8*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*65.7*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*73.0*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*84.2*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903923
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP23 (0.5-4) (0903923-09) Soil	**Sampled: 09/03/09 11:45**			**Received: 09/04/09 12:00**						
1,2,4-Trichlorobenzene	<0.031	0.38	0.031	mg/kg dry	1	B9I0910	09/09/09	09/11/09	EPA 8270C	
1,2-Dichlorobenzene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.044	0.77	0.044	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.028	0.77	0.028	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.77	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.067	0.77	0.067	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.049	0.77	0.049	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.044	0.77	0.044	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.041	0.77	0.041	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.45	1.8	0.45	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.085	0.77	0.085	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.046	0.77	0.046	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.77	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.031	0.77	0.031	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.77	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.77	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Benzidine	<0.83	2.9	0.83	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.039	0.38	0.039	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903923
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP23 (0.5-4) (0903923-09) Soil	**Sampled: 09/03/09 11:45**			**Received: 09/04/09 12:00**						
Benzo (k) fluoranthene	<0.036	0.38	0.036	mg/kg dry	1	B9I0910	09/09/09	09/11/09	EPA 8270C	
Benzoic acid	<0.067	0.38	0.067	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.77	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.025	0.38	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Carbazole	<0.025	0.38	0.025	mg/kg dry	1	"	"	"	"	
Chrysene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.039	0.38	0.039	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.017	0.38	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.043	0.38	0.043	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Fluorene	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.018	0.38	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.047	0.38	0.047	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.77	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.066	0.77	0.066	mg/kg dry	1	"	"	"	"	
Pyrene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*65.6*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*77.8*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*71.6*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*71.3*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*75.3*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*94.0*			*43.6-112 %*		"	"	"	"	

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Fax: 651-642-1239

Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903923
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP24 (0.5-2.5) (0903923-10) Soil	**Sampled: 09/03/09 12:45**			**Received: 09/04/09 12:00**						
1,2,4-Trichlorobenzene	<0.029	0.35	0.029	mg/kg dry	1	B9I0910	09/09/09	09/11/09	EPA 8270C	
1,2-Dichlorobenzene	<0.027	0.35	0.027	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.021	0.35	0.021	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.026	0.35	0.026	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.040	0.71	0.040	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.026	0.71	0.026	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.037	0.71	0.037	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.037	0.71	0.037	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.096	0.71	0.096	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.062	0.71	0.062	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.046	0.71	0.046	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.040	0.71	0.040	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	**0.048**	0.35	0.030	mg/kg dry	1	"	"	"	"	J
2-Methylphenol	<0.037	0.71	0.037	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.021	0.35	0.021	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.038	0.71	0.038	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.41	1.7	0.41	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.035	0.35	0.035	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.079	0.71	0.079	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.018	0.35	0.018	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.043	0.71	0.043	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.12	0.71	0.12	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.029	0.71	0.029	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.71	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	**0.18**	0.35	0.030	mg/kg dry	1	"	"	"	"	J
Acenaphthylene	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
Aniline	<0.096	0.71	0.096	mg/kg dry	1	"	"	"	"	
Anthracene	**0.35**	0.35	0.027	mg/kg dry	1	"	"	"	"	
Benzidine	<0.77	2.7	0.77	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	**0.81**	0.35	0.029	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	**0.56**	0.35	0.029	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	**0.75**	0.35	0.036	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	**0.27**	0.35	0.032	mg/kg dry	1	"	"	"	"	J

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903923
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP24 (0.5-2.5) (0903923-10) Soil	**Sampled: 09/03/09 12:45**			**Received: 09/04/09 12:00**						
Benzo (k) fluoranthene	**0.31**	0.35	0.033	mg/kg dry	1	B9I0910	09/09/09	09/11/09	EPA 8270C	J
Benzoic acid	<0.062	0.35	0.062	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.13	0.71	0.13	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.026	0.35	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.023	0.35	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.021	0.35	0.021	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
Carbazole	**0.12**	0.35	0.023	mg/kg dry	1	"	"	"	"	J
Chrysene	**0.74**	0.35	0.035	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	**0.16**	0.35	0.036	mg/kg dry	1	"	"	"	"	J
Dibenzofuran	**0.11**	0.35	0.020	mg/kg dry	1	"	"	"	"	J
Diethyl phthalate	<0.016	0.35	0.016	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.019	0.35	0.019	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.039	0.35	0.039	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.027	0.35	0.027	mg/kg dry	1	"	"	"	"	
Fluoranthene	**1.7**	0.35	0.026	mg/kg dry	1	"	"	"	"	
Fluorene	**0.15**	0.35	0.019	mg/kg dry	1	"	"	"	"	J
Hexachlorobenzene	<0.017	0.35	0.017	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.035	0.35	0.035	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.044	0.35	0.044	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.030	0.35	0.030	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	**0.27**	0.35	0.034	mg/kg dry	1	"	"	"	"	J
Isophorone	<0.018	0.35	0.018	mg/kg dry	1	"	"	"	"	
Naphthalene	**0.052**	0.35	0.031	mg/kg dry	1	"	"	"	"	J
Nitrobenzene	<0.032	0.35	0.032	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.034	0.35	0.034	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.027	0.35	0.027	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.019	0.35	0.019	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.10	0.71	0.10	mg/kg dry	1	"	"	"	"	
Phenanthrene	**1.6**	0.35	0.020	mg/kg dry	1	"	"	"	"	
Phenol	<0.061	0.71	0.061	mg/kg dry	1	"	"	"	"	
Pyrene	**1.5**	0.35	0.024	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*74.0*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*78.8*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*72.6*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*70.8*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*75.0*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*98.8*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903923
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP25 (1-3) (0903923-12) Soil Sampled: 09/03/09 13:05 Received: 09/04/09 12:00										
1,2,4-Trichlorobenzene	<0.028	0.34	0.028	mg/kg dry	1	B9I0910	09/09/09	09/11/09	EPA 8270C	
1,2-Dichlorobenzene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.039	0.68	0.039	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.024	0.68	0.024	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.036	0.68	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.036	0.68	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.092	0.68	0.092	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.059	0.68	0.059	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.044	0.68	0.044	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.039	0.68	0.039	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.036	0.68	0.036	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.037	0.68	0.037	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.40	1.6	0.40	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.076	0.68	0.076	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.017	0.34	0.017	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.041	0.68	0.041	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.11	0.68	0.11	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.028	0.68	0.028	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.10	0.68	0.10	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Aniline	<0.092	0.68	0.092	mg/kg dry	1	"	"	"	"	
Anthracene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Benzidine	<0.73	2.6	0.73	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903923
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP25 (1-3) (0903923-12) Soil Sampled: 09/03/09 13:05 Received: 09/04/09 12:00										
Benzo (k) fluoranthene	<0.032	0.34	0.032	mg/kg dry	1	B9I0910	09/09/09	09/11/09	EPA 8270C	
Benzoic acid	<0.059	0.34	0.059	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.12	0.68	0.12	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
Carbazole	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Chrysene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.015	0.34	0.015	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.038	0.34	0.038	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Fluorene	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.016	0.34	0.016	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.042	0.34	0.042	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
Isophorone	<0.017	0.34	0.017	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.030	0.34	0.030	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.098	0.68	0.098	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Phenol	<0.058	0.68	0.058	mg/kg dry	1	"	"	"	"	
Pyrene	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*65.0*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*74.5*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*69.9*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*68.6*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*70.9*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*85.9*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903923
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP26 (0.5-4) (0903923-13) Soil	**Sampled: 09/03/09 13:15**			**Received: 09/04/09 12:00**						
1,2,4-Trichlorobenzene	<0.032	0.39	0.032	mg/kg dry	1	B9I0910	09/09/09	09/11/09	EPA 8270C	
1,2-Dichlorobenzene	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.028	0.39	0.028	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.045	0.79	0.045	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.028	0.79	0.028	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.041	0.79	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.041	0.79	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.79	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.068	0.79	0.068	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.051	0.79	0.051	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.39	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.39	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.045	0.79	0.045	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.041	0.79	0.041	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.042	0.79	0.042	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.46	1.9	0.46	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.087	0.79	0.087	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.39	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.047	0.79	0.047	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.79	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.032	0.79	0.032	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.79	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
Aniline	<0.11	0.79	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
Benzidine	<0.85	2.9	0.85	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.032	0.39	0.032	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.032	0.39	0.032	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.040	0.39	0.040	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.035	0.39	0.035	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903923
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP26 (0.5-4) (0903923-13) Soil	**Sampled: 09/03/09 13:15**			**Received: 09/04/09 12:00**						
Benzo (k) fluoranthene	<0.036	0.39	0.036	mg/kg dry	1	B9I0910	09/09/09	09/11/09	EPA 8270C	
Benzoic acid	<0.068	0.39	0.068	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.79	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.028	0.39	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.026	0.39	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
Carbazole	<0.026	0.39	0.026	mg/kg dry	1	"	"	"	"	
Chrysene	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.040	0.39	0.040	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.022	0.39	0.022	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.018	0.39	0.018	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.044	0.39	0.044	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.028	0.39	0.028	mg/kg dry	1	"	"	"	"	
Fluorene	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.019	0.39	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.048	0.39	0.048	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.038	0.39	0.038	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.39	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.034	0.39	0.034	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.035	0.39	0.035	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.038	0.39	0.038	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.79	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.022	0.39	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.067	0.79	0.067	mg/kg dry	1	"	"	"	"	
Pyrene	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*59.3*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*75.5*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*63.5*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*68.7*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*70.7*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*92.5*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903923
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

PERCENT SOLIDS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1605 - General Preparation											
Duplicate (B9I1605-DUP1)			**Source: 0903923-10**		Prepared & Analyzed: 09/16/09						
% Solids	92.0			%		94.0			2.15	20	
Duplicate (B9I1605-DUP2)			**Source: 0903968-08**		Prepared & Analyzed: 09/16/09						
% Solids	88.0			%		86.0			2.30	20	
Duplicate (B9I1605-DUP3)			**Source: 0903968-18**		Prepared & Analyzed: 09/16/09						
% Solids	84.0			%		85.0			1.18	20	
Duplicate (B9I1605-DUP4)			**Source: 0903968-28**		Prepared & Analyzed: 09/16/09						
% Solids	90.0			%		89.0			1.12	20	
Duplicate (B9I1605-DUP5)			**Source: 0904057-01**		Prepared & Analyzed: 09/16/09						
% Solids	96.0			%		96.0			0.00	20	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903923
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0910 - EPA 3545 ASE Extraction											
Blank (B9I0910-BLK1)					Prepared: 09/09/09 Analyzed: 09/11/09						
1,2,4-Trichlorobenzene	< 0.027	0.33	0.027	mg/kg wet							
1,2-Dichlorobenzene	< 0.025	0.33	0.025	mg/kg wet							
1,2-Diphenylhydrazine as Azobenzene	< 0.020	0.33	0.020	mg/kg wet							
1,3-Dichlorobenzene	< 0.023	0.33	0.023	mg/kg wet							
1,4-Dichlorobenzene	< 0.024	0.33	0.024	mg/kg wet							
2,3,4,6-Tetrachlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2,4,5-Trichlorophenol	< 0.024	0.67	0.024	mg/kg wet							
2,4,6-Trichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dimethylphenol	< 0.090	0.67	0.090	mg/kg wet							
2,4-Dinitrophenol	< 0.058	0.67	0.058	mg/kg wet							
2,4-Dinitrotoluene	< 0.021	0.33	0.021	mg/kg wet							
2,6-Dichlorophenol	< 0.043	0.67	0.043	mg/kg wet							
2,6-Dinitrotoluene	< 0.019	0.33	0.019	mg/kg wet							
2-Chloronaphthalene	< 0.019	0.33	0.019	mg/kg wet							
2-Chlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2-Methylnaphthalene	< 0.028	0.33	0.028	mg/kg wet							
2-Methylphenol	< 0.035	0.67	0.035	mg/kg wet							
2-Nitroaniline	< 0.020	0.33	0.020	mg/kg wet							
2-Nitrophenol	< 0.036	0.67	0.036	mg/kg wet							
3,3´-Dichlorobenzidine	< 0.39	1.6	0.39	mg/kg wet							
3-Nitroaniline	< 0.033	0.33	0.033	mg/kg wet							
4,6-Dinitro-2-methylphenol	< 0.074	0.67	0.074	mg/kg wet							
4-Bromophenyl phenyl ether	< 0.017	0.33	0.017	mg/kg wet							
4-Chloro-3-methylphenol	< 0.040	0.67	0.040	mg/kg wet							
4-Chloroaniline	< 0.11	0.67	0.11	mg/kg wet							
4-Chlorophenyl phenyl ether	< 0.023	0.33	0.023	mg/kg wet							
4-Methylphenol	< 0.027	0.67	0.027	mg/kg wet							
4-Nitroaniline	< 0.023	0.33	0.023	mg/kg wet							
4-Nitrophenol	< 0.099	0.67	0.099	mg/kg wet							
Acenaphthene	< 0.028	0.33	0.028	mg/kg wet							
Acenaphthylene	< 0.023	0.33	0.023	mg/kg wet							
Aniline	< 0.090	0.67	0.090	mg/kg wet							
Anthracene	< 0.025	0.33	0.025	mg/kg wet							
Benzidine	< 0.72	2.5	0.72	mg/kg wet							
Benzo (a) anthracene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (a) pyrene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (b) fluoranthene	< 0.034	0.33	0.034	mg/kg wet							
Benzo (g,h,i) perylene	< 0.030	0.33	0.030	mg/kg wet							

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903923
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0910 - EPA 3545 ASE Extraction											
Blank (B9I0910-BLK1)					Prepared: 09/09/09 Analyzed: 09/11/09						
Benzo (k) fluoranthene	< 0.031	0.33	0.031	mg/kg wet							
Benzoic acid	< 0.058	0.33	0.058	mg/kg wet							
Benzyl alcohol	< 0.12	0.67	0.12	mg/kg wet							
Bis(2-chloroethoxy)methane	< 0.021	0.33	0.021	mg/kg wet							
Bis(2-chloroethyl)ether	< 0.024	0.33	0.024	mg/kg wet							
Bis(2-chloroisopropyl)ether	< 0.022	0.33	0.022	mg/kg wet							
Bis(2-ethylhexyl)phthalate	< 0.020	0.33	0.020	mg/kg wet							
Butyl benzyl phthalate	< 0.021	0.33	0.021	mg/kg wet							
Carbazole	< 0.022	0.33	0.022	mg/kg wet							
Chrysene	< 0.033	0.33	0.033	mg/kg wet							
Dibenz (a,h) anthracene	< 0.034	0.33	0.034	mg/kg wet							
Dibenzofuran	< 0.019	0.33	0.019	mg/kg wet							
Diethyl phthalate	< 0.015	0.33	0.015	mg/kg wet							
Dimethyl phthalate	< 0.018	0.33	0.018	mg/kg wet							
Di-n-butyl phthalate	< 0.037	0.33	0.037	mg/kg wet							
Di-n-octyl phthalate	< 0.025	0.33	0.025	mg/kg wet							
Fluoranthene	< 0.024	0.33	0.024	mg/kg wet							
Fluorene	< 0.018	0.33	0.018	mg/kg wet							
Hexachlorobenzene	< 0.016	0.33	0.016	mg/kg wet							
Hexachlorobutadiene	< 0.033	0.33	0.033	mg/kg wet							
Hexachlorocyclopentadiene	< 0.041	0.33	0.041	mg/kg wet							
Hexachloroethane	< 0.028	0.33	0.028	mg/kg wet							
Indeno (1,2,3-cd) pyrene	< 0.032	0.33	0.032	mg/kg wet							
Isophorone	< 0.017	0.33	0.017	mg/kg wet							
Naphthalene	< 0.029	0.33	0.029	mg/kg wet							
Nitrobenzene	< 0.030	0.33	0.030	mg/kg wet							
N-Nitrosodimethylamine	< 0.032	0.33	0.032	mg/kg wet							
N-Nitrosodi-n-propylamine	< 0.025	0.33	0.025	mg/kg wet							
N-Nitrosodiphenylamine	< 0.018	0.33	0.018	mg/kg wet							
Pentachlorophenol	< 0.096	0.67	0.096	mg/kg wet							
Phenanthrene	< 0.019	0.33	0.019	mg/kg wet							
Phenol	< 0.057	0.67	0.057	mg/kg wet							
Pyrene	< 0.023	0.33	0.023	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	*4.23*			*mg/kg wet*	*6.67*		*63.5*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*4.43*			*mg/kg wet*	*6.67*		*66.4*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*4.54*			*mg/kg wet*	*6.67*		*68.1*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.29*			*mg/kg wet*	*6.67*		*64.3*	*49.1-86.9*			
Surrogate: Phenol-d6	*4.62*			*mg/kg wet*	*6.67*		*69.3*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.78*			*mg/kg wet*	*6.67*		*86.6*	*43.6-112*			

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Barr Engineering Co.	Project:	23/19-0B05.07			
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300		Work Order #:	0903923
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/21/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0910 - EPA 3545 ASE Extraction											
LCS (B9I0910-BS1)					Prepared: 09/09/09		Analyzed: 09/11/09				
1,2,4-Trichlorobenzene	4.34	0.33	0.027	mg/kg wet	6.67		65.1	50.7-82.1			
1,4-Dichlorobenzene	4.17	0.33	0.024	mg/kg wet	6.67		62.5	44-77			
2,4-Dinitrotoluene	4.81	0.33	0.021	mg/kg wet	6.67		72.2	56.7-81.7			
2-Chlorophenol	4.61	0.67	0.038	mg/kg wet	6.67		69.1	52.3-88.2			
4-Chloro-3-methylphenol	4.85	0.67	0.040	mg/kg wet	6.67		72.7	53.4-87			
4-Nitrophenol	5.12	0.67	0.099	mg/kg wet	6.67		76.8	55.7-87.1			
Anthracene	5.75	0.33	0.025	mg/kg wet	6.67		86.2	65.3-92			
Benzo (a) anthracene	5.33	0.33	0.027	mg/kg wet	6.67		79.9	69-95.3			
Benzo (a) pyrene	5.56	0.33	0.027	mg/kg wet	6.67		83.5	68.5-98.2			
Chrysene	5.21	0.33	0.033	mg/kg wet	6.67		78.1	68.6-94.2			
Fluoranthene	5.76	0.33	0.024	mg/kg wet	6.67		86.4	64.3-94.6			
Fluorene	5.20	0.33	0.018	mg/kg wet	6.67		78.0	61.9-89.4			
N-Nitrosodi-n-propylamine	4.88	0.33	0.025	mg/kg wet	6.67		73.2	55.5-91.1			
Pentachlorophenol	3.67	0.67	0.096	mg/kg wet	6.67		55.1	54.7-74.6			
Phenanthrene	5.56	0.33	0.019	mg/kg wet	6.67		83.4	64.3-90.9			
Phenol	4.85	0.67	0.057	mg/kg wet	6.67		72.7	49.7-85.4			
Surrogate: 2,4,6-Tribromophenol	*4.56*			*mg/kg wet*	*6.67*		*68.4*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*5.00*			*mg/kg wet*	*6.67*		*74.9*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*5.00*			*mg/kg wet*	*6.67*		*75.1*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.79*			*mg/kg wet*	*6.67*		*71.8*	*49.1-86.9*			
Surrogate: Phenol-d6	*5.20*			*mg/kg wet*	*6.67*		*77.9*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*4.82*			*mg/kg wet*	*6.67*		*72.3*	*43.6-112*			
Matrix Spike (B9I0910-MS1)		**Source: 0903907-21**			Prepared: 09/09/09		Analyzed: 09/11/09				
1,2,4-Trichlorobenzene	4.25	0.35	0.028	mg/kg dry	7.07	<0.35	60.1	51-77.5			
1,4-Dichlorobenzene	3.81	0.35	0.025	mg/kg dry	7.07	<0.35	53.8	41.7-73.4			
2,4-Dinitrotoluene	5.59	0.35	0.022	mg/kg dry	7.07	<0.35	79.0	50-84.8			
2-Chlorophenol	4.39	0.71	0.040	mg/kg dry	7.07	<0.71	62.1	47.8-90.8			
4-Chloro-3-methylphenol	5.25	0.71	0.042	mg/kg dry	7.07	<0.71	74.2	48.4-95.1			
4-Nitrophenol	6.13	0.71	0.10	mg/kg dry	7.07	<0.71	86.7	44-105			
Anthracene	6.70	0.35	0.026	mg/kg dry	7.07	<0.35	94.7	60.2-97.3			
Benzo (a) anthracene	6.32	0.35	0.028	mg/kg dry	7.07	<0.35	89.3	59.8-102			
Benzo (a) pyrene	6.82	0.35	0.028	mg/kg dry	7.07	<0.35	96.3	57.2-105			
Chrysene	6.13	0.35	0.035	mg/kg dry	7.07	<0.35	86.7	59.2-102			
Fluoranthene	6.71	0.35	0.025	mg/kg dry	7.07	<0.35	94.9	50.4-108			
Fluorene	5.86	0.35	0.019	mg/kg dry	7.07	<0.35	82.8	57.8-94.4			
N-Nitrosodi-n-propylamine	4.99	0.35	0.026	mg/kg dry	7.07	<0.35	70.5	46.2-96.2			
Pentachlorophenol	4.62	0.71	0.10	mg/kg dry	7.07	<0.71	65.3	53.6-80.4			
Phenanthrene	6.49	0.35	0.020	mg/kg dry	7.07	<0.35	91.8	58.4-97.5			
Phenol	4.74	0.71	0.060	mg/kg dry	7.07	<0.71	67.0	44-88.5			

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LEGEND Technical Services, Inc.
www.legend-group.com

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903923
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0910 - EPA 3545 ASE Extraction											
Matrix Spike (B9I0910-MS1)		**Source: 0903907-21**			Prepared: 09/09/09		Analyzed: 09/11/09				
Surrogate: 2,4,6-Tribromophenol	*5.18*			*mg/kg dry*	*7.07*		*73.3*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*5.31*			*mg/kg dry*	*7.07*		*75.0*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*4.70*			*mg/kg dry*	*7.07*		*66.4*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.74*			*mg/kg dry*	*7.07*		*67.0*	*49.1-86.9*			
Surrogate: Phenol-d6	*5.08*			*mg/kg dry*	*7.07*		*71.8*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.67*			*mg/kg dry*	*7.07*		*80.1*	*43.6-112*			
Matrix Spike Dup (B9I0910-MSD1)		**Source: 0903907-21**			Prepared: 09/09/09		Analyzed: 09/11/09				
1,2,4-Trichlorobenzene	4.65	0.35	0.028	mg/kg dry	7.07	<0.35	65.8	51-77.5	8.99	15.7	
1,4-Dichlorobenzene	4.31	0.35	0.025	mg/kg dry	7.07	<0.35	61.0	41.7-73.4	12.4	14.7	
2,4-Dinitrotoluene	5.33	0.35	0.022	mg/kg dry	7.07	<0.35	75.4	50-84.8	4.83	20.5	
2-Chlorophenol	4.86	0.71	0.040	mg/kg dry	7.07	<0.71	68.7	47.8-90.8	10.1	19.8	
4-Chloro-3-methylphenol	5.19	0.71	0.042	mg/kg dry	7.07	<0.71	73.4	48.4-95.1	1.17	18.7	
4-Nitrophenol	5.70	0.71	0.10	mg/kg dry	7.07	<0.71	80.6	44-105	7.29	30.9	
Anthracene	6.31	0.35	0.026	mg/kg dry	7.07	<0.35	89.3	60.2-97.3	5.92	15.1	
Benzo (a) anthracene	6.01	0.35	0.028	mg/kg dry	7.07	<0.35	85.0	59.8-102	4.96	19.6	
Benzo (a) pyrene	6.32	0.35	0.028	mg/kg dry	7.07	<0.35	89.3	57.2-105	7.62	19.4	
Chrysene	5.81	0.35	0.035	mg/kg dry	7.07	<0.35	82.2	59.2-102	5.38	19.6	
Fluoranthene	6.22	0.35	0.025	mg/kg dry	7.07	<0.35	88.0	50.4-108	7.62	21	
Fluorene	5.70	0.35	0.019	mg/kg dry	7.07	<0.35	80.6	57.8-94.4	2.76	15.8	
N-Nitrosodi-n-propylamine	5.33	0.35	0.026	mg/kg dry	7.07	<0.35	75.5	46.2-96.2	6.74	17.1	
Pentachlorophenol	4.02	0.71	0.10	mg/kg dry	7.07	<0.71	56.9	53.6-80.4	13.7	22.4	
Phenanthrene	6.14	0.35	0.020	mg/kg dry	7.07	<0.35	86.9	58.4-97.5	5.53	14.3	
Phenol	5.15	0.71	0.060	mg/kg dry	7.07	<0.71	72.9	44-88.5	8.37	21.5	
Surrogate: 2,4,6-Tribromophenol	*4.89*			*mg/kg dry*	*7.07*		*69.2*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*5.48*			*mg/kg dry*	*7.07*		*77.6*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*5.28*			*mg/kg dry*	*7.07*		*74.7*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*5.24*			*mg/kg dry*	*7.07*		*74.2*	*49.1-86.9*			
Surrogate: Phenol-d6	*5.53*			*mg/kg dry*	*7.07*		*78.3*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.44*			*mg/kg dry*	*7.07*		*76.9*	*43.6-112*			

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903923
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

Notes and Definitions

J	Parameter was present between the MDL and RL and should be considered an estimated value
<	Less than value listed
dry	Sample results reported on a dry weight basis
NA	Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL	Method Detection Limit
RL	Reporting Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
MS	Matrix Spike = Laboratory Fortified Matrix (LFM)

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0905423 0

BARR *Chain of Custody*

4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number: 23/19-BO5S1R1300

Project Name: CMA SS1/R1

№ 28513

COC 1 of 2

Project Manager: SME

Project Contact: KSN

Sampled by: ESC

Laboratory: Legend

	Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Volatile Organics (Pres.)*1	Semivolatile Organics *2	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	General (Unpreserved) *3	Cyanide (NaOH)	Nutrients (H_2SO_4) *4	Oil and Grease (H_2SO_4)	Sulfide (Zn Acetate)	Methane	Bacteria ($Na_2S_2O_3$)	DRO (HCl)	VOCs (2-oz tared MeOH) *1	GRO, BTEX (2-oz tared MeOH)*1	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.) *2	% Moisture (plastic vial, unpres.)	Total No. Of Containers	Remarks:
01	1. SOCS-GP15(0.5-4)	9-3-09	0845		X	X																			1	1	2	SVOCs See attached analyte list
02	2. SOCS-GP16(0.5-4)	9-3-09	0900		X	X																			1	1	2	
03	3. SOCS-GP17(0.5-4)	9-3-09	0930		X	X																			1	1	2	
04	4. SOCS-GP18(0.5-4)	9-3-09	1015		X	X																			1	1	2	
05	5. SOCS-GP19(1-4)	9-3-09	1030		X	X																			1	1	2	
06	6. SOCS-GP20(0.5-4)	9-3-09	1045		X	X																			1	1	2	
07	7. SOCS-GP21(0.5-4)	9-3-09	1115		X	X																			1	1	2	
08	8. SOCS-GP22(0.5-4)	9-3-09	1130		X	X																			1	1	2	
09	9. SOCS-GP23(0.5-4)	9-3-09	1145		X	X																			1	1	2	
10	10. SOCS-GP24(0.5-2.5)	9-3-09	1245		X	X																			1	1	2	
11	11. (0.25-1) SOCS-GP25	9-3-09	1300		X	X																			1	1	2	← HOLD FREEZE
12	12. (1-3) SOCS-GP25	9-3-09	1505		X	X																			1	1	2	SVOCs - See attached list ~~HOLD FREEZE~~

Common Parameter/Container - Preservation Key

*1 - Volatile Organics = BTEX, GRO, TPH, Full List
*2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
*3 - General = pH, Chloride, Flouride, Alkalinity, TSS, TDS, TS, Sulfate
*4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
BLEN ~~KELLY BERG~~ CONDINE	O N	9/3/09	1700			
KELLY NERL	O N	9/4/09	800	B Phan	9/4/09	1200

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

20 4 7°C

H:\LEGS\DFORMS\Chain Of Custody Form RLG Rev. 07/01/05

Legend Technical Services, Inc.

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0905923

Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

.07

Project Number: 23/19-B05,S1,R1 3.00

Project Name: LMA SS1/R1

№ 23235

COC 2 of 2

Project Manager: JME

Project Contact: KJN

Sampled by: EJC

Laboratory: Legend

	Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Volatile Organics (Pres.)*1	Semivolatile Organics *2	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	General (Unpreserved) *3	Cyanide (NaOH)	Nutrients (H_2SO_4) *4	Oil and Grease (H_2SO_4)	Sulfide (Zn Acetate)	Methane	Bacteria ($Na_2S_2O_3$)	DRO (HCl)	VOCs (2-oz tared MeOH) *1	GRO, BTEX (2-oz tared MeOH)*1	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.)*2	% Moisture (plastic vial, unpres.)	Total No. Of Containers	Remarks
13	1. SOCS-GP26(0.5-4)	9-3-09	1315		X		X																		1	1	2	SVOCs See attached analyte list
14	2. MS-Water	9-3-09	1430						3	1	1	Matrix Spike															5	VOCs, SVOCs, Diss Metals (Field filtered) see attached list
15	3. MSD-Water	9-3-09	1430	X				X	3	1	1	Matrix Spike Dup															5	"
	4.																											
	5.																											
	6.																											
	7.																											
	8.																											
	9.																											
	10.																											
	11.																											
	12.																											

Common Parameter/Container - Preservation Key

*1 - Volatile Organics = BTEX, GRO, TPH, Full List
*2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
*3 - General = pH, Chloride, Flouride, Alkalinity, TSS, TDS, TS, Sulfate
*4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
~~KRISTIN~~ ELLEN CONSTANTINE	① N	9/3/09	1900			
KELLY NEPOL	① N	9/4/09	800	[illegible]	9/4/09	12:00

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

RR 4.7

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September 21, 2009

Ms. Kelly Neppl
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0903924
RE: 23/19-0B05.07

Enclosed are the results of analyses for samples received by the laboratory on 09/04/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of this report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

Terri Olson
Client Manager II
tolson@legend-group.com

Erica Nastrom
QA/QC Coordinator
enastrom@legend-group.com

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903924
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC5-Bld604-NPipe	0903924-01	Other	09/02/09 11:00	09/04/09 12:00
SOC5-TT5-4'	0903924-02	Soil	09/03/09 15:00	09/04/09 12:00
SOC5-TT2-3'	0903924-04	Soil	09/03/09 17:00	09/04/09 12:00

Shipping Container Information

Default Cooler Temperature (°C): 4.7

Received on ice: Yes
Received on melt water: No
Custody seals: Yes
Temperature blank was present
Ambient: No
Received on ice pack: No
Acceptable (IH/ISO only): No

Case Narrative:

MN Certification does not apply to carbazole in the 8270C analysis. The sample results for SOC5-Bld604-NPipe are reported on an 'as received' basis.

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903924
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-TT5-4' (0903924-02) Soil Sampled: 09/03/09 15:00 Received: 09/04/09 12:00										
Antimony	<0.53	0.53	0.0058	mg/kg dry	1	B9I1114	09/11/09	09/16/09	EPA 6010B	
Arsenic	**1.3**	0.53	0.11	mg/kg dry	1	"	"	"	"	
Beryllium	<0.26	0.26	0.012	mg/kg dry	1	"	"	"	"	
Cadmium	<0.26	0.26	0.026	mg/kg dry	1	"	"	"	"	
Chromium	**7.8**	0.53	0.013	mg/kg dry	1	"	"	"	"	
Copper	**9.6**	1.1	0.074	mg/kg dry	1	"	"	"	"	
Lead	**1.7**	1.1	0.036	mg/kg dry	1	"	"	"	"	
Mercury	<0.11	0.11	0.0019	mg/kg dry	1	B9I0905	09/09/09	09/10/09	EPA 7471A	
Nickel	**11**	0.53	0.015	mg/kg dry	1	B9I1114	09/11/09	09/16/09	EPA 6010B	
Selenium	<1.1	1.1	0.12	mg/kg dry	1	"	"	"	"	
Silver	<0.26	0.26	0.0095	mg/kg dry	1	"	"	"	"	
Thallium	<2.1	2.1	0.14	mg/kg dry	1	"	"	"	"	
Zinc	<1.1	1.1	0.23	mg/kg dry	1	"	"	"	"	
SOC5-TT2-3' (0903924-04) Soil Sampled: 09/03/09 17:00 Received: 09/04/09 12:00										
Antimony	<0.52	0.52	0.0057	mg/kg dry	1	B9I1114	09/11/09	09/16/09	EPA 6010B	
Arsenic	**1.5**	0.52	0.10	mg/kg dry	1	"	"	"	"	
Beryllium	<0.26	0.26	0.011	mg/kg dry	1	"	"	"	"	
Cadmium	<0.26	0.26	0.026	mg/kg dry	1	"	"	"	"	
Chromium	**6.3**	0.52	0.012	mg/kg dry	1	"	"	"	"	
Copper	**4.6**	1.0	0.072	mg/kg dry	1	"	"	"	"	
Lead	**2.2**	1.0	0.035	mg/kg dry	1	"	"	"	"	
Mercury	<0.10	0.10	0.0019	mg/kg dry	1	B9I0905	09/09/09	09/10/09	EPA 7471A	
Nickel	**7.0**	0.52	0.014	mg/kg dry	1	B9I1114	09/11/09	09/16/09	EPA 6010B	
Selenium	<1.0	1.0	0.11	mg/kg dry	1	"	"	"	"	
Silver	<0.26	0.26	0.0093	mg/kg dry	1	"	"	"	"	
Thallium	<2.1	2.1	0.13	mg/kg dry	1	"	"	"	"	
Zinc	<1.0	1.0	0.23	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903924
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

PERCENT SOLIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-TT5-4' (0903924-02) Soil	**Sampled: 09/03/09 15:00**		**Received: 09/04/09 12:00**							
% Solids	**95**			%	1	B9I1011	09/10/09	09/11/09	% calculation	
SOC5-TT2-3' (0903924-04) Soil	**Sampled: 09/03/09 17:00**		**Received: 09/04/09 12:00**							
% Solids	**97**			%	1	B9I1011	09/10/09	09/11/09	% calculation	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903924
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-Bld604-NPipe (0903924-01) Other	**Sampled: 09/02/09 11:00**			**Received: 09/04/09 12:00**						
1,2,4-Trichlorobenzene	<0.027	0.33	0.027	mg/kg wet	1	B9I1401	09/14/09	09/14/09	EPA 8270C	
1,2-Dichlorobenzene	<0.025	0.33	0.025	mg/kg wet	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.020	0.33	0.020	mg/kg wet	1	"	"	"	"	
1,3-Dichlorobenzene	<0.023	0.33	0.023	mg/kg wet	1	"	"	"	"	
1,4-Dichlorobenzene	<0.024	0.33	0.024	mg/kg wet	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.038	0.67	0.038	mg/kg wet	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.024	0.67	0.024	mg/kg wet	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.035	0.67	0.035	mg/kg wet	1	"	"	"	"	
2,4-Dichlorophenol	<0.035	0.67	0.035	mg/kg wet	1	"	"	"	"	
2,4-Dimethylphenol	<0.090	0.67	0.090	mg/kg wet	1	"	"	"	"	
2,4-Dinitrophenol	<0.058	0.67	0.058	mg/kg wet	1	"	"	"	"	
2,4-Dinitrotoluene	<0.021	0.33	0.021	mg/kg wet	1	"	"	"	"	
2,6-Dichlorophenol	<0.043	0.67	0.043	mg/kg wet	1	"	"	"	"	
2,6-Dinitrotoluene	<0.019	0.33	0.019	mg/kg wet	1	"	"	"	"	
2-Chloronaphthalene	<0.019	0.33	0.019	mg/kg wet	1	"	"	"	"	
2-Chlorophenol	<0.038	0.67	0.038	mg/kg wet	1	"	"	"	"	
2-Methylnaphthalene	<0.028	0.33	0.028	mg/kg wet	1	"	"	"	"	
2-Methylphenol	<0.035	0.67	0.035	mg/kg wet	1	"	"	"	"	
2-Nitroaniline	<0.020	0.33	0.020	mg/kg wet	1	"	"	"	"	
2-Nitrophenol	<0.036	0.67	0.036	mg/kg wet	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.39	1.6	0.39	mg/kg wet	1	"	"	"	"	
3-Nitroaniline	<0.033	0.33	0.033	mg/kg wet	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.074	0.67	0.074	mg/kg wet	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.017	0.33	0.017	mg/kg wet	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.040	0.67	0.040	mg/kg wet	1	"	"	"	"	
4-Chloroaniline	<0.11	0.67	0.11	mg/kg wet	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.023	0.33	0.023	mg/kg wet	1	"	"	"	"	
4-Methylphenol	<0.027	0.67	0.027	mg/kg wet	1	"	"	"	"	
4-Nitroaniline	<0.023	0.33	0.023	mg/kg wet	1	"	"	"	"	
4-Nitrophenol	<0.099	0.67	0.099	mg/kg wet	1	"	"	"	"	
Acenaphthene	<0.028	0.33	0.028	mg/kg wet	1	"	"	"	"	
Acenaphthylene	<0.023	0.33	0.023	mg/kg wet	1	"	"	"	"	
Aniline	<0.090	0.67	0.090	mg/kg wet	1	"	"	"	"	
Anthracene	<0.025	0.33	0.025	mg/kg wet	1	"	"	"	"	
Benzidine	<0.72	2.5	0.72	mg/kg wet	1	"	"	"	"	
Benzo (a) anthracene	<0.027	0.33	0.027	mg/kg wet	1	"	"	"	"	
Benzo (a) pyrene	<0.027	0.33	0.027	mg/kg wet	1	"	"	"	"	
Benzo (b) fluoranthene	<0.034	0.33	0.034	mg/kg wet	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.030	0.33	0.030	mg/kg wet	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903924
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-Bld604-NPipe (0903924-01) Other	**Sampled: 09/02/09 11:00**			**Received: 09/04/09 12:00**						
Benzo (k) fluoranthene	<0.031	0.33	0.031	mg/kg wet	1	B9I1401	09/14/09	09/14/09	EPA 8270C	
Benzoic acid	<0.058	0.33	0.058	mg/kg wet	1	"	"	"	"	
Benzyl alcohol	<0.12	0.67	0.12	mg/kg wet	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.021	0.33	0.021	mg/kg wet	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.024	0.33	0.024	mg/kg wet	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.022	0.33	0.022	mg/kg wet	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.020	0.33	0.020	mg/kg wet	1	"	"	"	"	
Butyl benzyl phthalate	<0.021	0.33	0.021	mg/kg wet	1	"	"	"	"	
Carbazole	<0.022	0.33	0.022	mg/kg wet	1	"	"	"	"	
Chrysene	<0.033	0.33	0.033	mg/kg wet	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.034	0.33	0.034	mg/kg wet	1	"	"	"	"	
Dibenzofuran	<0.019	0.33	0.019	mg/kg wet	1	"	"	"	"	
Diethyl phthalate	<0.015	0.33	0.015	mg/kg wet	1	"	"	"	"	
Dimethyl phthalate	<0.018	0.33	0.018	mg/kg wet	1	"	"	"	"	
Di-n-butyl phthalate	<0.037	0.33	0.037	mg/kg wet	1	"	"	"	"	
Di-n-octyl phthalate	<0.025	0.33	0.025	mg/kg wet	1	"	"	"	"	
Fluoranthene	<0.024	0.33	0.024	mg/kg wet	1	"	"	"	"	
Fluorene	<0.018	0.33	0.018	mg/kg wet	1	"	"	"	"	
Hexachlorobenzene	<0.016	0.33	0.016	mg/kg wet	1	"	"	"	"	
Hexachlorobutadiene	<0.033	0.33	0.033	mg/kg wet	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.041	0.33	0.041	mg/kg wet	1	"	"	"	"	
Hexachloroethane	<0.028	0.33	0.028	mg/kg wet	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.032	0.33	0.032	mg/kg wet	1	"	"	"	"	
Isophorone	<0.017	0.33	0.017	mg/kg wet	1	"	"	"	"	
Naphthalene	<0.029	0.33	0.029	mg/kg wet	1	"	"	"	"	
Nitrobenzene	<0.030	0.33	0.030	mg/kg wet	1	"	"	"	"	
N-Nitrosodimethylamine	<0.032	0.33	0.032	mg/kg wet	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.025	0.33	0.025	mg/kg wet	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.018	0.33	0.018	mg/kg wet	1	"	"	"	"	
Pentachlorophenol	<0.096	0.67	0.096	mg/kg wet	1	"	"	"	"	
Phenanthrene	<0.019	0.33	0.019	mg/kg wet	1	"	"	"	"	
Phenol	<0.057	0.67	0.057	mg/kg wet	1	"	"	"	"	
Pyrene	<0.023	0.33	0.023	mg/kg wet	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*81.5*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*68.1*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*66.6*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*69.6*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*73.2*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*65.5*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903924
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-TT5-4' (0903924-02) Soil Sampled: 09/03/09 15:00 Received: 09/04/09 12:00										
1,2,4-Trichlorobenzene	<0.028	0.35	0.028	mg/kg dry	1	B9I0910	09/09/09	09/10/09	EPA 8270C	
1,2-Dichlorobenzene	<0.026	0.35	0.026	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.021	0.35	0.021	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.025	0.35	0.025	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.040	0.71	0.040	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.025	0.71	0.025	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.037	0.71	0.037	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.037	0.71	0.037	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.095	0.71	0.095	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.061	0.71	0.061	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.045	0.71	0.045	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.040	0.71	0.040	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.029	0.35	0.029	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.037	0.71	0.037	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.021	0.35	0.021	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.038	0.71	0.038	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.41	1.7	0.41	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.035	0.35	0.035	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.078	0.71	0.078	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.018	0.35	0.018	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.042	0.71	0.042	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.12	0.71	0.12	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.028	0.71	0.028	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.10	0.71	0.10	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.029	0.35	0.029	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
Aniline	<0.095	0.71	0.095	mg/kg dry	1	"	"	"	"	
Anthracene	<0.026	0.35	0.026	mg/kg dry	1	"	"	"	"	
Benzidine	<0.76	2.6	0.76	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.028	0.35	0.028	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.028	0.35	0.028	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.036	0.35	0.036	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.032	0.35	0.032	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903924
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-TT5-4' (0903924-02) Soil Sampled: 09/03/09 15:00 Received: 09/04/09 12:00										
Benzo (k) fluoranthene	<0.033	0.35	0.033	mg/kg dry	1	B9I0910	09/09/09	09/10/09	EPA 8270C	
Benzoic acid	<0.061	0.35	0.061	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.13	0.71	0.13	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.025	0.35	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.023	0.35	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.021	0.35	0.021	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
Carbazole	<0.023	0.35	0.023	mg/kg dry	1	"	"	"	"	
Chrysene	<0.035	0.35	0.035	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.036	0.35	0.036	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.016	0.35	0.016	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.019	0.35	0.019	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.039	0.35	0.039	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.026	0.35	0.026	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.025	0.35	0.025	mg/kg dry	1	"	"	"	"	
Fluorene	<0.019	0.35	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.017	0.35	0.017	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.035	0.35	0.035	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.043	0.35	0.043	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.029	0.35	0.029	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.034	0.35	0.034	mg/kg dry	1	"	"	"	"	
Isophorone	<0.018	0.35	0.018	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.031	0.35	0.031	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.032	0.35	0.032	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.034	0.35	0.034	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.026	0.35	0.026	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.019	0.35	0.019	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.10	0.71	0.10	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
Phenol	<0.060	0.71	0.060	mg/kg dry	1	"	"	"	"	
Pyrene	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*65.7*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*74.5*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*71.1*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*68.0*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*75.5*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*103*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903924
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-TT2-3' (0903924-04) Soil Sampled: 09/03/09 17:00 Received: 09/04/09 12:00										
1,2,4-Trichlorobenzene	<0.028	0.34	0.028	mg/kg dry	1	B9I0910	09/09/09	09/10/09	EPA 8270C	
1,2-Dichlorobenzene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.039	0.69	0.039	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.025	0.69	0.025	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.036	0.69	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.036	0.69	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.093	0.69	0.093	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.060	0.69	0.060	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.044	0.69	0.044	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.039	0.69	0.039	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.036	0.69	0.036	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.037	0.69	0.037	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.40	1.6	0.40	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.076	0.69	0.076	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.041	0.69	0.041	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.11	0.69	0.11	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.028	0.69	0.028	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.10	0.69	0.10	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Aniline	<0.093	0.69	0.093	mg/kg dry	1	"	"	"	"	
Anthracene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Benzidine	<0.74	2.6	0.74	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07			
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300		Work Order #:	0903924
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/21/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-TT2-3' (0903924-04) Soil Sampled: 09/03/09 17:00 Received: 09/04/09 12:00										
Benzo (k) fluoranthene	<0.032	0.34	0.032	mg/kg dry	1	B9I0910	09/09/09	09/10/09	EPA 8270C	
Benzoic acid	<0.060	0.34	0.060	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.12	0.69	0.12	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Carbazole	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Chrysene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.015	0.34	0.015	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.038	0.34	0.038	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
Fluorene	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.016	0.34	0.016	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.042	0.34	0.042	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
Isophorone	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.030	0.34	0.030	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.099	0.69	0.099	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
Phenol	<0.059	0.69	0.059	mg/kg dry	1	"	"	"	"	
Pyrene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*67.9*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*72.4*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*71.1*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*66.8*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*74.1*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*98.8*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23/19-0B05.07			
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300		Work Order #:	0903924
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/21/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0905 - EPA 7471A											
Blank (B9I0905-BLK1)					Prepared: 09/09/09		Analyzed: 09/10/09				
Mercury	< 0.10	0.10	0.0018	mg/kg wet							
LCS (B9I0905-BS1)					Prepared: 09/09/09		Analyzed: 09/10/09				
Mercury	0.217	0.10	0.0018	mg/kg wet	0.200		108	80-120			
LCS Dup (B9I0905-BSD1)					Prepared: 09/09/09		Analyzed: 09/10/09				
Mercury	0.209	0.10	0.0018	mg/kg wet	0.200		104	80-120	3.76	20	
Matrix Spike (B9I0905-MS1)		**Source: 0903907-10**			Prepared: 09/09/09		Analyzed: 09/10/09				
Mercury	0.240	0.11	0.0020	mg/kg dry	0.217	<0.11	108	75-125			
Matrix Spike Dup (B9I0905-MSD1)		**Source: 0903907-10**			Prepared: 09/09/09		Analyzed: 09/10/09				
Mercury	0.239	0.11	0.0020	mg/kg dry	0.217	<0.11	108	75-125	0.454	20	
Batch B9I1114 - EPA 3050B											
Blank (B9I1114-BLK1)					Prepared: 09/11/09		Analyzed: 09/16/09				
Antimony	< 0.50	0.50	0.0055	mg/kg wet							
Arsenic	< 0.50	0.50	0.10	mg/kg wet							
Beryllium	< 0.25	0.25	0.011	mg/kg wet							
Cadmium	< 0.25	0.25	0.025	mg/kg wet							
Chromium	< 0.50	0.50	0.012	mg/kg wet							
Copper	< 1.0	1.0	0.070	mg/kg wet							
Lead	< 1.0	1.0	0.034	mg/kg wet							
Nickel	< 0.50	0.50	0.014	mg/kg wet							
Selenium	< 1.0	1.0	0.11	mg/kg wet							
Silver	< 0.25	0.25	0.0090	mg/kg wet							
Thallium	< 2.0	2.0	0.13	mg/kg wet							
Zinc	< 1.0	1.0	0.22	mg/kg wet							
LCS (B9I1114-BS1)					Prepared: 09/11/09		Analyzed: 09/16/09				
Antimony	37.7	0.50	0.0055	mg/kg wet	39.9		94.4	80-120			
Arsenic	39.0	0.50	0.10	mg/kg wet	39.9		97.8	80-120			
Beryllium	4.02	0.25	0.011	mg/kg wet	3.99		101	80-120			
Cadmium	41.6	0.25	0.025	mg/kg wet	39.9		104	80-120			
Chromium	40.7	0.50	0.012	mg/kg wet	39.9		102	80-120			
Copper	40.1	1.0	0.070	mg/kg wet	39.9		100	80-120			
Lead	41.6	1.0	0.034	mg/kg wet	39.9		104	80-120			
Nickel	40.5	0.50	0.014	mg/kg wet	39.9		102	80-120			
Selenium	38.3	1.0	0.11	mg/kg wet	39.9		95.9	80-120			
Silver	4.05	0.25	0.0090	mg/kg wet	3.99		101	80-120			
Thallium	40.4	2.0	0.13	mg/kg wet	39.9		101	80-120			
Zinc	40.6	1.0	0.22	mg/kg wet	39.9		102	80-120			

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Barr Engineering Co.	Project:	23/19-0B05.07			
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300		Work Order #:	0903924
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/21/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1114 - EPA 3050B											
LCS Dup (B9I1114-BSD1)					Prepared: 09/11/09		Analyzed: 09/16/09				
Antimony	38.7	0.50	0.0055	mg/kg wet	39.9		96.9	80-120	2.62	20	
Arsenic	39.6	0.50	0.10	mg/kg wet	39.9		99.3	80-120	1.52	20	
Beryllium	4.01	0.25	0.011	mg/kg wet	3.99		101	80-120	0.0840	20	
Cadmium	41.5	0.25	0.025	mg/kg wet	39.9		104	80-120	0.214	20	
Chromium	40.6	0.50	0.012	mg/kg wet	39.9		102	80-120	0.246	20	
Copper	40.5	1.0	0.070	mg/kg wet	39.9		102	80-120	1.19	20	
Lead	41.4	1.0	0.034	mg/kg wet	39.9		104	80-120	0.380	20	
Nickel	40.4	0.50	0.014	mg/kg wet	39.9		101	80-120	0.370	20	
Selenium	39.2	1.0	0.11	mg/kg wet	39.9		98.3	80-120	2.42	20	
Silver	4.10	0.25	0.0090	mg/kg wet	3.99		103	80-120	1.45	20	
Thallium	40.4	2.0	0.13	mg/kg wet	39.9		101	80-120	0.0624	20	
Zinc	42.9	1.0	0.22	mg/kg wet	39.9		108	80-120	5.47	20	
Matrix Spike (B9I1114-MS1)		**Source: 0903945-01**			Prepared: 09/11/09		Analyzed: 09/16/09				
Antimony	42.4	0.61	0.0067	mg/kg dry	48.7	1.23	84.7	75-125			
Arsenic	48.9	0.61	0.12	mg/kg dry	48.7	4.68	90.8	75-125			
Beryllium	4.89	0.30	0.013	mg/kg dry	4.87	0.368	92.9	75-125			
Cadmium	45.6	0.30	0.030	mg/kg dry	48.7	<0.30	93.2	75-125			
Chromium	57.7	0.61	0.015	mg/kg dry	48.7	12.0	93.8	75-125			
Copper	53.9	1.2	0.085	mg/kg dry	48.7	7.66	95.0	75-125			
Lead	58.2	1.2	0.041	mg/kg dry	48.7	13.8	91.2	75-125			
Nickel	54.3	0.61	0.017	mg/kg dry	48.7	9.25	92.6	75-125			
Selenium	43.0	1.2	0.13	mg/kg dry	48.7	<1.2	88.3	75-125			
Silver	4.54	0.30	0.011	mg/kg dry	4.87	<0.30	93.2	75-125			
Thallium	43.0	2.4	0.16	mg/kg dry	48.7	<2.4	88.4	75-125			
Zinc	153	1.2	0.27	mg/kg dry	48.7	102	106	75-125			
Matrix Spike Dup (B9I1114-MSD1)		**Source: 0903945-01**			Prepared: 09/11/09		Analyzed: 09/16/09				
Antimony	42.9	0.61	0.0067	mg/kg dry	48.7	1.23	85.6	75-125	1.03	20	
Arsenic	50.2	0.61	0.12	mg/kg dry	48.7	4.68	93.4	75-125	2.59	20	
Beryllium	5.02	0.30	0.013	mg/kg dry	4.87	0.368	95.6	75-125	2.57	20	
Cadmium	46.6	0.30	0.030	mg/kg dry	48.7	<0.30	95.2	75-125	2.03	20	
Chromium	60.3	0.61	0.015	mg/kg dry	48.7	12.0	99.2	75-125	4.45	20	
Copper	55.2	1.2	0.085	mg/kg dry	48.7	7.66	97.8	75-125	2.47	20	
Lead	59.4	1.2	0.041	mg/kg dry	48.7	13.8	93.8	75-125	2.15	20	
Nickel	55.3	0.61	0.017	mg/kg dry	48.7	9.25	94.7	75-125	1.93	20	
Selenium	44.2	1.2	0.13	mg/kg dry	48.7	<1.2	90.9	75-125	2.87	20	
Silver	4.62	0.30	0.011	mg/kg dry	4.87	<0.30	94.9	75-125	1.72	20	
Thallium	44.0	2.4	0.16	mg/kg dry	48.7	<2.4	90.5	75-125	2.38	20	
Zinc	145	1.2	0.27	mg/kg dry	48.7	102	88.0	75-125	5.71	20	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903924
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

PERCENT SOLIDS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1011 - General Preparation											
Duplicate (B9I1011-DUP1)		**Source: 0903873-06**			Prepared: 09/10/09		Analyzed: 09/11/09				
% Solids	88.0			%		88.0			0.00	20	
Duplicate (B9I1011-DUP2)		**Source: 0903873-16**			Prepared: 09/10/09		Analyzed: 09/11/09				
% Solids	78.0			%		77.0			1.29	20	
Duplicate (B9I1011-DUP3)		**Source: 0903959-01**			Prepared: 09/10/09		Analyzed: 09/11/09				
% Solids	75.0			%		73.0			2.70	20	
Duplicate (B9I1011-DUP4)		**Source: 0903965-02**			Prepared: 09/10/09		Analyzed: 09/11/09				
% Solids	87.0			%		87.0			0.00	20	

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903924
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0910 - EPA 3545 ASE Extraction											
Blank (B9I0910-BLK1)					Prepared: 09/09/09 Analyzed: 09/11/09						
1,2,4-Trichlorobenzene	< 0.027	0.33	0.027	mg/kg wet							
1,2-Dichlorobenzene	< 0.025	0.33	0.025	mg/kg wet							
1,2-Diphenylhydrazine as Azobenzene	< 0.020	0.33	0.020	mg/kg wet							
1,3-Dichlorobenzene	< 0.023	0.33	0.023	mg/kg wet							
1,4-Dichlorobenzene	< 0.024	0.33	0.024	mg/kg wet							
2,3,4,6-Tetrachlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2,4,5-Trichlorophenol	< 0.024	0.67	0.024	mg/kg wet							
2,4,6-Trichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dimethylphenol	< 0.090	0.67	0.090	mg/kg wet							
2,4-Dinitrophenol	< 0.058	0.67	0.058	mg/kg wet							
2,4-Dinitrotoluene	< 0.021	0.33	0.021	mg/kg wet							
2,6-Dichlorophenol	< 0.043	0.67	0.043	mg/kg wet							
2,6-Dinitrotoluene	< 0.019	0.33	0.019	mg/kg wet							
2-Chloronaphthalene	< 0.019	0.33	0.019	mg/kg wet							
2-Chlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2-Methylnaphthalene	< 0.028	0.33	0.028	mg/kg wet							
2-Methylphenol	< 0.035	0.67	0.035	mg/kg wet							
2-Nitroaniline	< 0.020	0.33	0.020	mg/kg wet							
2-Nitrophenol	< 0.036	0.67	0.036	mg/kg wet							
3,3´-Dichlorobenzidine	< 0.39	1.6	0.39	mg/kg wet							
3-Nitroaniline	< 0.033	0.33	0.033	mg/kg wet							
4,6-Dinitro-2-methylphenol	< 0.074	0.67	0.074	mg/kg wet							
4-Bromophenyl phenyl ether	< 0.017	0.33	0.017	mg/kg wet							
4-Chloro-3-methylphenol	< 0.040	0.67	0.040	mg/kg wet							
4-Chloroaniline	< 0.11	0.67	0.11	mg/kg wet							
4-Chlorophenyl phenyl ether	< 0.023	0.33	0.023	mg/kg wet							
4-Methylphenol	< 0.027	0.67	0.027	mg/kg wet							
4-Nitroaniline	< 0.023	0.33	0.023	mg/kg wet							
4-Nitrophenol	< 0.099	0.67	0.099	mg/kg wet							
Acenaphthene	< 0.028	0.33	0.028	mg/kg wet							
Acenaphthylene	< 0.023	0.33	0.023	mg/kg wet							
Aniline	< 0.090	0.67	0.090	mg/kg wet							
Anthracene	< 0.025	0.33	0.025	mg/kg wet							
Benzidine	< 0.72	2.5	0.72	mg/kg wet							
Benzo (a) anthracene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (a) pyrene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (b) fluoranthene	< 0.034	0.33	0.034	mg/kg wet							
Benzo (g,h,i) perylene	< 0.030	0.33	0.030	mg/kg wet							

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903924
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0910 - EPA 3545 ASE Extraction											
Blank (B9I0910-BLK1)					Prepared: 09/09/09 Analyzed: 09/11/09						
Benzo (k) fluoranthene	< 0.031	0.33	0.031	mg/kg wet							
Benzoic acid	< 0.058	0.33	0.058	mg/kg wet							
Benzyl alcohol	< 0.12	0.67	0.12	mg/kg wet							
Bis(2-chloroethoxy)methane	< 0.021	0.33	0.021	mg/kg wet							
Bis(2-chloroethyl)ether	< 0.024	0.33	0.024	mg/kg wet							
Bis(2-chloroisopropyl)ether	< 0.022	0.33	0.022	mg/kg wet							
Bis(2-ethylhexyl)phthalate	< 0.020	0.33	0.020	mg/kg wet							
Butyl benzyl phthalate	< 0.021	0.33	0.021	mg/kg wet							
Carbazole	< 0.022	0.33	0.022	mg/kg wet							
Chrysene	< 0.033	0.33	0.033	mg/kg wet							
Dibenz (a,h) anthracene	< 0.034	0.33	0.034	mg/kg wet							
Dibenzofuran	< 0.019	0.33	0.019	mg/kg wet							
Diethyl phthalate	< 0.015	0.33	0.015	mg/kg wet							
Dimethyl phthalate	< 0.018	0.33	0.018	mg/kg wet							
Di-n-butyl phthalate	< 0.037	0.33	0.037	mg/kg wet							
Di-n-octyl phthalate	< 0.025	0.33	0.025	mg/kg wet							
Fluoranthene	< 0.024	0.33	0.024	mg/kg wet							
Fluorene	< 0.018	0.33	0.018	mg/kg wet							
Hexachlorobenzene	< 0.016	0.33	0.016	mg/kg wet							
Hexachlorobutadiene	< 0.033	0.33	0.033	mg/kg wet							
Hexachlorocyclopentadiene	< 0.041	0.33	0.041	mg/kg wet							
Hexachloroethane	< 0.028	0.33	0.028	mg/kg wet							
Indeno (1,2,3-cd) pyrene	< 0.032	0.33	0.032	mg/kg wet							
Isophorone	< 0.017	0.33	0.017	mg/kg wet							
Naphthalene	< 0.029	0.33	0.029	mg/kg wet							
Nitrobenzene	< 0.030	0.33	0.030	mg/kg wet							
N-Nitrosodimethylamine	< 0.032	0.33	0.032	mg/kg wet							
N-Nitrosodi-n-propylamine	< 0.025	0.33	0.025	mg/kg wet							
N-Nitrosodiphenylamine	< 0.018	0.33	0.018	mg/kg wet							
Pentachlorophenol	< 0.096	0.67	0.096	mg/kg wet							
Phenanthrene	< 0.019	0.33	0.019	mg/kg wet							
Phenol	< 0.057	0.67	0.057	mg/kg wet							
Pyrene	< 0.023	0.33	0.023	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	*4.23*			*mg/kg wet*	*6.67*		*63.5*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*4.43*			*mg/kg wet*	*6.67*		*66.4*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*4.54*			*mg/kg wet*	*6.67*		*68.1*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.29*			*mg/kg wet*	*6.67*		*64.3*	*49.1-86.9*			
Surrogate: Phenol-d6	*4.62*			*mg/kg wet*	*6.67*		*69.3*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.78*			*mg/kg wet*	*6.67*		*86.6*	*43.6-112*			

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Barr Engineering Co.	Project:	23/19-0B05.07			
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300		Work Order #:	0903924
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/21/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0910 - EPA 3545 ASE Extraction											
LCS (B9I0910-BS1)					Prepared: 09/09/09		Analyzed: 09/11/09				
1,2,4-Trichlorobenzene	4.34	0.33	0.027	mg/kg wet	6.67		65.1	50.7-82.1			
1,4-Dichlorobenzene	4.17	0.33	0.024	mg/kg wet	6.67		62.5	44-77			
2,4-Dinitrotoluene	4.81	0.33	0.021	mg/kg wet	6.67		72.2	56.7-81.7			
2-Chlorophenol	4.61	0.67	0.038	mg/kg wet	6.67		69.1	52.3-88.2			
4-Chloro-3-methylphenol	4.85	0.67	0.040	mg/kg wet	6.67		72.7	53.4-87			
4-Nitrophenol	5.12	0.67	0.099	mg/kg wet	6.67		76.8	55.7-87.1			
Anthracene	5.75	0.33	0.025	mg/kg wet	6.67		86.2	65.3-92			
Benzo (a) anthracene	5.33	0.33	0.027	mg/kg wet	6.67		79.9	69-95.3			
Benzo (a) pyrene	5.56	0.33	0.027	mg/kg wet	6.67		83.5	68.5-98.2			
Chrysene	5.21	0.33	0.033	mg/kg wet	6.67		78.1	68.6-94.2			
Fluoranthene	5.76	0.33	0.024	mg/kg wet	6.67		86.4	64.3-94.6			
Fluorene	5.20	0.33	0.018	mg/kg wet	6.67		78.0	61.9-89.4			
N-Nitrosodi-n-propylamine	4.88	0.33	0.025	mg/kg wet	6.67		73.2	55.5-91.1			
Pentachlorophenol	3.67	0.67	0.096	mg/kg wet	6.67		55.1	54.7-74.6			
Phenanthrene	5.56	0.33	0.019	mg/kg wet	6.67		83.4	64.3-90.9			
Phenol	4.85	0.67	0.057	mg/kg wet	6.67		72.7	49.7-85.4			
Surrogate: 2,4,6-Tribromophenol	*4.56*			*mg/kg wet*	*6.67*		*68.4*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*5.00*			*mg/kg wet*	*6.67*		*74.9*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*5.00*			*mg/kg wet*	*6.67*		*75.1*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.79*			*mg/kg wet*	*6.67*		*71.8*	*49.1-86.9*			
Surrogate: Phenol-d6	*5.20*			*mg/kg wet*	*6.67*		*77.9*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*4.82*			*mg/kg wet*	*6.67*		*72.3*	*43.6-112*			
Matrix Spike (B9I0910-MS1)		**Source: 0903907-21**			Prepared: 09/09/09		Analyzed: 09/11/09				
1,2,4-Trichlorobenzene	4.25	0.35	0.028	mg/kg dry	7.07	<0.35	60.1	51-77.5			
1,4-Dichlorobenzene	3.81	0.35	0.025	mg/kg dry	7.07	<0.35	53.8	41.7-73.4			
2,4-Dinitrotoluene	5.59	0.35	0.022	mg/kg dry	7.07	<0.35	79.0	50-84.8			
2-Chlorophenol	4.39	0.71	0.040	mg/kg dry	7.07	<0.71	62.1	47.8-90.8			
4-Chloro-3-methylphenol	5.25	0.71	0.042	mg/kg dry	7.07	<0.71	74.2	48.4-95.1			
4-Nitrophenol	6.13	0.71	0.10	mg/kg dry	7.07	<0.71	86.7	44-105			
Anthracene	6.70	0.35	0.026	mg/kg dry	7.07	<0.35	94.7	60.2-97.3			
Benzo (a) anthracene	6.32	0.35	0.028	mg/kg dry	7.07	<0.35	89.3	59.8-102			
Benzo (a) pyrene	6.82	0.35	0.028	mg/kg dry	7.07	<0.35	96.3	57.2-105			
Chrysene	6.13	0.35	0.035	mg/kg dry	7.07	<0.35	86.7	59.2-102			
Fluoranthene	6.71	0.35	0.025	mg/kg dry	7.07	<0.35	94.9	50.4-108			
Fluorene	5.86	0.35	0.019	mg/kg dry	7.07	<0.35	82.8	57.8-94.4			
N-Nitrosodi-n-propylamine	4.99	0.35	0.026	mg/kg dry	7.07	<0.35	70.5	46.2-96.2			
Pentachlorophenol	4.62	0.71	0.10	mg/kg dry	7.07	<0.71	65.3	53.6-80.4			
Phenanthrene	6.49	0.35	0.020	mg/kg dry	7.07	<0.35	91.8	58.4-97.5			
Phenol	4.74	0.71	0.060	mg/kg dry	7.07	<0.71	67.0	44-88.5			

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LEGEND Technical Services, Inc.
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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903924
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I0910 - EPA 3545 ASE Extraction											
Matrix Spike (B9I0910-MS1)		**Source: 0903907-21**			Prepared: 09/09/09		Analyzed: 09/11/09				
Surrogate: 2,4,6-Tribromophenol	*5.18*			*mg/kg dry*	*7.07*		*73.3*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*5.31*			*mg/kg dry*	*7.07*		*75.0*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*4.70*			*mg/kg dry*	*7.07*		*66.4*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.74*			*mg/kg dry*	*7.07*		*67.0*	*49.1-86.9*			
Surrogate: Phenol-d6	*5.08*			*mg/kg dry*	*7.07*		*71.8*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.67*			*mg/kg dry*	*7.07*		*80.1*	*43.6-112*			
Matrix Spike Dup (B9I0910-MSD1)		**Source: 0903907-21**			Prepared: 09/09/09		Analyzed: 09/11/09				
1,2,4-Trichlorobenzene	4.65	0.35	0.028	mg/kg dry	7.07	<0.35	65.8	51-77.5	8.99	15.7	
1,4-Dichlorobenzene	4.31	0.35	0.025	mg/kg dry	7.07	<0.35	61.0	41.7-73.4	12.4	14.7	
2,4-Dinitrotoluene	5.33	0.35	0.022	mg/kg dry	7.07	<0.35	75.4	50-84.8	4.83	20.5	
2-Chlorophenol	4.86	0.71	0.040	mg/kg dry	7.07	<0.71	68.7	47.8-90.8	10.1	19.8	
4-Chloro-3-methylphenol	5.19	0.71	0.042	mg/kg dry	7.07	<0.71	73.4	48.4-95.1	1.17	18.7	
4-Nitrophenol	5.70	0.71	0.10	mg/kg dry	7.07	<0.71	80.6	44-105	7.29	30.9	
Anthracene	6.31	0.35	0.026	mg/kg dry	7.07	<0.35	89.3	60.2-97.3	5.92	15.1	
Benzo (a) anthracene	6.01	0.35	0.028	mg/kg dry	7.07	<0.35	85.0	59.8-102	4.96	19.6	
Benzo (a) pyrene	6.32	0.35	0.028	mg/kg dry	7.07	<0.35	89.3	57.2-105	7.62	19.4	
Chrysene	5.81	0.35	0.035	mg/kg dry	7.07	<0.35	82.2	59.2-102	5.38	19.6	
Fluoranthene	6.22	0.35	0.025	mg/kg dry	7.07	<0.35	88.0	50.4-108	7.62	21	
Fluorene	5.70	0.35	0.019	mg/kg dry	7.07	<0.35	80.6	57.8-94.4	2.76	15.8	
N-Nitrosodi-n-propylamine	5.33	0.35	0.026	mg/kg dry	7.07	<0.35	75.5	46.2-96.2	6.74	17.1	
Pentachlorophenol	4.02	0.71	0.10	mg/kg dry	7.07	<0.71	56.9	53.6-80.4	13.7	22.4	
Phenanthrene	6.14	0.35	0.020	mg/kg dry	7.07	<0.35	86.9	58.4-97.5	5.53	14.3	
Phenol	5.15	0.71	0.060	mg/kg dry	7.07	<0.71	72.9	44-88.5	8.37	21.5	
Surrogate: 2,4,6-Tribromophenol	*4.89*			*mg/kg dry*	*7.07*		*69.2*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*5.48*			*mg/kg dry*	*7.07*		*77.6*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*5.28*			*mg/kg dry*	*7.07*		*74.7*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*5.24*			*mg/kg dry*	*7.07*		*74.2*	*49.1-86.9*			
Surrogate: Phenol-d6	*5.53*			*mg/kg dry*	*7.07*		*78.3*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.44*			*mg/kg dry*	*7.07*		*76.9*	*43.6-112*			

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903924
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1401 - EPA 3545 ASE Extraction											
Blank (B9I1401-BLK1)					Prepared & Analyzed: 09/14/09						
1,2,4-Trichlorobenzene	< 0.027	0.33	0.027	mg/kg wet							
1,2-Dichlorobenzene	< 0.025	0.33	0.025	mg/kg wet							
1,2-Diphenylhydrazine as Azobenzene	< 0.020	0.33	0.020	mg/kg wet							
1,3-Dichlorobenzene	< 0.023	0.33	0.023	mg/kg wet							
1,4-Dichlorobenzene	< 0.024	0.33	0.024	mg/kg wet							
2,3,4,6-Tetrachlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2,4,5-Trichlorophenol	< 0.024	0.67	0.024	mg/kg wet							
2,4,6-Trichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dimethylphenol	< 0.090	0.67	0.090	mg/kg wet							
2,4-Dinitrophenol	< 0.058	0.67	0.058	mg/kg wet							
2,4-Dinitrotoluene	< 0.021	0.33	0.021	mg/kg wet							
2,6-Dichlorophenol	< 0.043	0.67	0.043	mg/kg wet							
2,6-Dinitrotoluene	< 0.019	0.33	0.019	mg/kg wet							
2-Chloronaphthalene	< 0.019	0.33	0.019	mg/kg wet							
2-Chlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2-Methylnaphthalene	< 0.028	0.33	0.028	mg/kg wet							
2-Methylphenol	< 0.035	0.67	0.035	mg/kg wet							
2-Nitroaniline	< 0.020	0.33	0.020	mg/kg wet							
2-Nitrophenol	< 0.036	0.67	0.036	mg/kg wet							
3,3´-Dichlorobenzidine	< 0.39	1.6	0.39	mg/kg wet							
3-Nitroaniline	< 0.033	0.33	0.033	mg/kg wet							
4,6-Dinitro-2-methylphenol	< 0.074	0.67	0.074	mg/kg wet							
4-Bromophenyl phenyl ether	< 0.017	0.33	0.017	mg/kg wet							
4-Chloro-3-methylphenol	< 0.040	0.67	0.040	mg/kg wet							
4-Chloroaniline	< 0.11	0.67	0.11	mg/kg wet							
4-Chlorophenyl phenyl ether	< 0.023	0.33	0.023	mg/kg wet							
4-Methylphenol	< 0.027	0.67	0.027	mg/kg wet							
4-Nitroaniline	< 0.023	0.33	0.023	mg/kg wet							
4-Nitrophenol	< 0.099	0.67	0.099	mg/kg wet							
Acenaphthene	< 0.028	0.33	0.028	mg/kg wet							
Acenaphthylene	< 0.023	0.33	0.023	mg/kg wet							
Aniline	< 0.090	0.67	0.090	mg/kg wet							
Anthracene	< 0.025	0.33	0.025	mg/kg wet							
Benzidine	< 0.72	2.5	0.72	mg/kg wet							
Benzo (a) anthracene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (a) pyrene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (b) fluoranthene	< 0.034	0.33	0.034	mg/kg wet							
Benzo (g,h,i) perylene	< 0.030	0.33	0.030	mg/kg wet							

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903924
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1401 - EPA 3545 ASE Extraction											
Blank (B9I1401-BLK1)					Prepared & Analyzed: 09/14/09						
Benzo (k) fluoranthene	< 0.031	0.33	0.031	mg/kg wet							
Benzoic acid	< 0.058	0.33	0.058	mg/kg wet							
Benzyl alcohol	< 0.12	0.67	0.12	mg/kg wet							
Bis(2-chloroethoxy)methane	< 0.021	0.33	0.021	mg/kg wet							
Bis(2-chloroethyl)ether	< 0.024	0.33	0.024	mg/kg wet							
Bis(2-chloroisopropyl)ether	< 0.022	0.33	0.022	mg/kg wet							
Bis(2-ethylhexyl)phthalate	< 0.020	0.33	0.020	mg/kg wet							
Butyl benzyl phthalate	< 0.021	0.33	0.021	mg/kg wet							
Carbazole	< 0.022	0.33	0.022	mg/kg wet							
Chrysene	< 0.033	0.33	0.033	mg/kg wet							
Dibenz (a,h) anthracene	< 0.034	0.33	0.034	mg/kg wet							
Dibenzofuran	< 0.019	0.33	0.019	mg/kg wet							
Diethyl phthalate	< 0.015	0.33	0.015	mg/kg wet							
Dimethyl phthalate	< 0.018	0.33	0.018	mg/kg wet							
Di-n-butyl phthalate	< 0.037	0.33	0.037	mg/kg wet							
Di-n-octyl phthalate	< 0.025	0.33	0.025	mg/kg wet							
Fluoranthene	< 0.024	0.33	0.024	mg/kg wet							
Fluorene	< 0.018	0.33	0.018	mg/kg wet							
Hexachlorobenzene	< 0.016	0.33	0.016	mg/kg wet							
Hexachlorobutadiene	< 0.033	0.33	0.033	mg/kg wet							
Hexachlorocyclopentadiene	< 0.041	0.33	0.041	mg/kg wet							
Hexachloroethane	< 0.028	0.33	0.028	mg/kg wet							
Indeno (1,2,3-cd) pyrene	< 0.032	0.33	0.032	mg/kg wet							
Isophorone	< 0.017	0.33	0.017	mg/kg wet							
Naphthalene	< 0.029	0.33	0.029	mg/kg wet							
Nitrobenzene	< 0.030	0.33	0.030	mg/kg wet							
N-Nitrosodimethylamine	< 0.032	0.33	0.032	mg/kg wet							
N-Nitrosodi-n-propylamine	< 0.025	0.33	0.025	mg/kg wet							
N-Nitrosodiphenylamine	< 0.018	0.33	0.018	mg/kg wet							
Pentachlorophenol	< 0.096	0.67	0.096	mg/kg wet							
Phenanthrene	< 0.019	0.33	0.019	mg/kg wet							
Phenol	< 0.057	0.67	0.057	mg/kg wet							
Pyrene	< 0.023	0.33	0.023	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	*4.75*			*mg/kg wet*	*6.67*		*71.3*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*4.02*			*mg/kg wet*	*6.67*		*60.3*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*4.10*			*mg/kg wet*	*6.67*		*61.6*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.09*			*mg/kg wet*	*6.67*		*61.4*	*49.1-86.9*			
Surrogate: Phenol-d6	*4.38*			*mg/kg wet*	*6.67*		*65.7*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*4.12*			*mg/kg wet*	*6.67*		*61.9*	*43.6-112*			

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Barr Engineering Co.	Project:	23/19-0B05.07			
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300		Work Order #:	0903924
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/21/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1401 - EPA 3545 ASE Extraction											
LCS (B9I1401-BS1)					Prepared & Analyzed: 09/14/09						
1,2,4-Trichlorobenzene	4.40	0.33	0.027	mg/kg wet	6.67		66.0	50.7-82.1			
1,4-Dichlorobenzene	3.92	0.33	0.024	mg/kg wet	6.67		58.8	44-77			
2,4-Dinitrotoluene	4.48	0.33	0.021	mg/kg wet	6.67		67.3	56.7-81.7			
2-Chlorophenol	4.49	0.67	0.038	mg/kg wet	6.67		67.3	52.3-88.2			
4-Chloro-3-methylphenol	4.69	0.67	0.040	mg/kg wet	6.67		70.4	53.4-87			
4-Nitrophenol	4.90	0.67	0.099	mg/kg wet	6.67		73.5	55.7-87.1			
Anthracene	5.03	0.33	0.025	mg/kg wet	6.67		75.5	65.3-92			
Benzo (a) anthracene	5.23	0.33	0.027	mg/kg wet	6.67		78.5	69-95.3			
Benzo (a) pyrene	5.24	0.33	0.027	mg/kg wet	6.67		78.6	68.5-98.2			
Chrysene	5.12	0.33	0.033	mg/kg wet	6.67		76.7	68.6-94.2			
Fluoranthene	5.00	0.33	0.024	mg/kg wet	6.67		75.0	64.3-94.6			
Fluorene	4.86	0.33	0.018	mg/kg wet	6.67		72.8	61.9-89.4			
N-Nitrosodi-n-propylamine	4.48	0.33	0.025	mg/kg wet	6.67		67.2	55.5-91.1			
Pentachlorophenol	4.37	0.67	0.096	mg/kg wet	6.67		65.6	54.7-74.6			
Phenanthrene	4.94	0.33	0.019	mg/kg wet	6.67		74.1	64.3-90.9			
Phenol	4.40	0.67	0.057	mg/kg wet	6.67		65.9	49.7-85.4			
Surrogate: 2,4,6-Tribromophenol	*5.37*			*mg/kg wet*	*6.67*		*80.5*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*4.41*			*mg/kg wet*	*6.67*		*66.1*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*4.50*			*mg/kg wet*	*6.67*		*67.5*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.56*			*mg/kg wet*	*6.67*		*68.4*	*49.1-86.9*			
Surrogate: Phenol-d6	*4.78*			*mg/kg wet*	*6.67*		*71.7*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*4.63*			*mg/kg wet*	*6.67*		*69.5*	*43.6-112*			
Matrix Spike (B9I1401-MS1)		**Source: 0904011-05**			Prepared & Analyzed: 09/14/09						
1,2,4-Trichlorobenzene	5.77	0.40	0.033	mg/kg dry	8.06	<0.40	71.5	51-77.5			
1,4-Dichlorobenzene	4.97	0.40	0.029	mg/kg dry	8.06	<0.40	61.6	41.7-73.4			
2,4-Dinitrotoluene	5.38	0.40	0.025	mg/kg dry	8.06	<0.40	66.7	50-84.8			
2-Chlorophenol	5.60	0.81	0.046	mg/kg dry	8.06	<0.81	69.5	47.8-90.8			
4-Chloro-3-methylphenol	5.86	0.81	0.048	mg/kg dry	8.06	<0.81	72.6	48.4-95.1			
4-Nitrophenol	5.96	0.81	0.12	mg/kg dry	8.06	<0.81	73.9	44-105			
Anthracene	6.42	0.40	0.030	mg/kg dry	8.06	<0.40	79.6	60.2-97.3			
Benzo (a) anthracene	6.81	0.40	0.033	mg/kg dry	8.06	<0.40	84.5	59.8-102			
Benzo (a) pyrene	6.64	0.40	0.033	mg/kg dry	8.06	<0.40	82.4	57.2-105			
Chrysene	6.67	0.40	0.040	mg/kg dry	8.06	<0.40	82.7	59.2-102			
Fluoranthene	6.39	0.40	0.029	mg/kg dry	8.06	<0.40	79.2	50.4-108			
Fluorene	6.02	0.40	0.022	mg/kg dry	8.06	<0.40	74.6	57.8-94.4			
N-Nitrosodi-n-propylamine	5.70	0.40	0.030	mg/kg dry	8.06	<0.40	70.7	46.2-96.2			
Pentachlorophenol	5.61	0.81	0.12	mg/kg dry	8.06	<0.81	69.5	53.6-80.4			
Phenanthrene	6.25	0.40	0.023	mg/kg dry	8.06	<0.40	77.5	58.4-97.5			
Phenol	5.44	0.81	0.069	mg/kg dry	8.06	<0.81	67.5	44-88.5			

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LEGEND Technical Services, Inc.
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St Paul, MN 55103
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Fax: 651-642-1239

Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903924
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1401 - EPA 3545 ASE Extraction											
Matrix Spike (B9I1401-MS1)		**Source: 0904011-05**			Prepared & Analyzed: 09/14/09						
Surrogate: 2,4,6-Tribromophenol	*6.91*			*mg/kg dry*	*8.06*		*85.7*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*5.55*			*mg/kg dry*	*8.06*		*68.8*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*5.74*			*mg/kg dry*	*8.06*		*71.1*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*5.75*			*mg/kg dry*	*8.06*		*71.3*	*49.1-86.9*			
Surrogate: Phenol-d6	*6.14*			*mg/kg dry*	*8.06*		*76.1*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*6.07*			*mg/kg dry*	*8.06*		*75.3*	*43.6-112*			
Matrix Spike Dup (B9I1401-MSD1)		**Source: 0904011-05**			Prepared & Analyzed: 09/14/09						
1,2,4-Trichlorobenzene	6.04	0.40	0.033	mg/kg dry	8.06	<0.40	74.9	51-77.5	4.55	15.7	
1,4-Dichlorobenzene	5.26	0.40	0.029	mg/kg dry	8.06	<0.40	65.2	41.7-73.4	5.56	14.7	
2,4-Dinitrotoluene	5.67	0.40	0.025	mg/kg dry	8.06	<0.40	70.3	50-84.8	5.37	20.5	
2-Chlorophenol	5.89	0.81	0.046	mg/kg dry	8.06	<0.81	73.1	47.8-90.8	5.08	19.8	
4-Chloro-3-methylphenol	6.16	0.81	0.048	mg/kg dry	8.06	<0.81	76.4	48.4-95.1	5.05	18.7	
4-Nitrophenol	6.14	0.81	0.12	mg/kg dry	8.06	<0.81	76.1	44-105	2.94	30.9	
Anthracene	6.49	0.40	0.030	mg/kg dry	8.06	<0.40	80.5	60.2-97.3	1.11	15.1	
Benzo (a) anthracene	6.83	0.40	0.033	mg/kg dry	8.06	<0.40	84.7	59.8-102	0.344	19.6	
Benzo (a) pyrene	6.73	0.40	0.033	mg/kg dry	8.06	<0.40	83.5	57.2-105	1.33	19.4	
Chrysene	6.72	0.40	0.040	mg/kg dry	8.06	<0.40	83.3	59.2-102	0.736	19.6	
Fluoranthene	6.45	0.40	0.029	mg/kg dry	8.06	<0.40	80.0	50.4-108	0.967	21	
Fluorene	6.18	0.40	0.022	mg/kg dry	8.06	<0.40	76.6	57.8-94.4	2.62	15.8	
N-Nitrosodi-n-propylamine	6.02	0.40	0.030	mg/kg dry	8.06	<0.40	74.7	46.2-96.2	5.54	17.1	
Pentachlorophenol	5.67	0.81	0.12	mg/kg dry	8.06	<0.81	70.3	53.6-80.4	1.12	22.4	
Phenanthrene	6.38	0.40	0.023	mg/kg dry	8.06	<0.40	79.1	58.4-97.5	2.14	14.3	
Phenol	5.72	0.81	0.069	mg/kg dry	8.06	<0.81	70.9	44-88.5	4.90	21.5	
Surrogate: 2,4,6-Tribromophenol	*6.85*			*mg/kg dry*	*8.06*		*85.0*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*5.66*			*mg/kg dry*	*8.06*		*70.2*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*5.90*			*mg/kg dry*	*8.06*		*73.1*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*5.74*			*mg/kg dry*	*8.06*		*71.2*	*49.1-86.9*			
Surrogate: Phenol-d6	*6.30*			*mg/kg dry*	*8.06*		*78.1*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*6.08*			*mg/kg dry*	*8.06*		*75.4*	*43.6-112*			

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Barr Engineering Co.	Project:	23/19-0B05.07		
4700 W 77th St	Project Number:	23/19-0B05.07SIRI300	Work Order #:	0903924
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/21/09

Notes and Definitions

<	Less than value listed
dry	Sample results reported on a dry weight basis
NA	Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL	Method Detection Limit
RL	Reporting Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
MS	Matrix Spike = Laboratory Fortified Matrix (LFM)

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UMP019279

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0903924

Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

COC 1 of 1

Project Number: 23/19-0805.01 SIR1 3000

Project Name: UMA SSI/R1

Sample Origination State MN (use two letter postal state abbreviation)

COC Number: № 29821

Project Manager: JSA/JME

Project QC Contact: KJN/AAN

Sampled by: KCB/JMC

Laboratory: Legend

	Location	Start Depth	Stop Depth	Depth Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	VOCs (HCl) #1	SVOCs (unpreserved) #2	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	General (unpreserved) #3	Diesel Range Organics (HCl)	Nutrients (H_2SO_4) #4	VOCs (tared MeOH) #1	GRO, BTEX (tared MeOH) #1	DRO (tared unpreserved)	Metals (unpreserved)	SVOCs (unpreserved) #2	% Solids (plastic vial, unpres.)	Total Number Of Containers	
01	1. SOCS-B1d604_NPipe	–	–	–	9/2/09	1100		X	X														X		1	Analyze SVOCs
02	2. SOCS-TTS-4'	4'	4	ft	9/3/09	1500		X	X													X	X	X	3	Analyze PPL Metals SVOCs
03	3. ~~SOCS-TT22-2'~~	~~2~~	~~2~~	~~ft~~	~~9/3/09~~	~~1100~~		~~X~~	~~X~~													~~X~~	~~X~~			~~Analyze PPL Metals + SVOCs~~ #3 cancelled per client TAO 9/9/09
04	4. SOCS-TT2-3'	3	3	ft	9/3/09	1100		X	X													X	X	X		
	5.																									
	6.																									
	7.																									
	8.																									
	9.																									
	10.																									

Common Parameter/Container - Preservation Key

#1 - Volatile Organics = BTEX, GRO, TPH, 8260 Full List
#2 - Semivolatile Organics = PAHs, PCP, Dioxins, 8270 Full List, Herbicide/Pesticide/PCBs
#3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
#4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
KRISTEN BITZ	Y N	9/3/09	1700			
KELLY NEPPL	Y N	9/4/09	800	[signature]	9/4/09	12:00

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other: _____

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

OR 4.7°C custody seals

H:\RLG\STDFORMS\Chain Of Custody Form 2009 RLG Rev. 09/01/09

Legend Technical Services, Inc.

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September 24, 2009

REVISION

Ms. Kelly Neppl
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0903969
RE: 23190B05.07

This is a revised report. The details of the revision are listed in the case narrative on the following page.

Enclosed are the results of analyses for samples received by the laboratory on 09/09/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of the original report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

Terri Olson
Client Manager II
tolson@legend-group.com

Erica Nastrom
QA/QC Coordinator
enastrom@legend-group.com

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0903969
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC5-GP10	0903969-01	Water	09/08/09 13:00	09/09/09 10:50
SOC5-GP3	0903969-02	Water	09/08/09 12:00	09/09/09 10:50

Shipping Container Information

Default Cooler Temperature (°C): 5.8

Received on ice: Yes
Temperature blank was present
Received on ice pack: No
Received on melt water: No
Ambient: No
Acceptable (IH/ISO only): No
Custody seals: Yes

Case Narrative:

MN Certification does not apply to dichlorofluoromethane, tetrahydrofuran, and 1,1,2-trichlorotrifluoroethane in the 8260B analysis or to carbazole in the 8270C analysis.

This report was revised on September 24, 2009 to include the narrative below:

Beryllium recoveries in the MS/MSD samples for 6020 batch B9I2003 were below laboratory control limits. Recoveries in the LCS/LCSD samples and the corresponding RPDs were within limits. The MS/MSD source sample was sample not associated with this work order.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

UMP019282

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0903969
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

DISSOLVED METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP10 (0903969-01) Water Sampled: 09/08/09 13:00 Received: 09/09/09 10:50										
Antimony	**0.47**	0.50	0.046	ug/L	1	B9I2003	09/20/09	09/23/09	EPA 6020 (Dissolved)	J
Arsenic	<10	10	2.0	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B (Dissolved)	
Beryllium	<0.027	0.50	0.027	ug/L	1	B9I2003	09/20/09	09/23/09	EPA 6020 (Dissolved)	
Cadmium	<1.0	1.0	0.099	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B (Dissolved)	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	
Copper	<20	20	1.4	ug/L	1	"	"	"	"	
Lead	<3.0	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B9I1412	09/14/09	09/15/09	EPA 7470A (Dissolved)	
Nickel	**5.2**	5.0	0.28	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B (Dissolved)	
Selenium	<20	20	2.2	ug/L	1	"	"	"	"	
Silver	<5.0	5.0	0.18	ug/L	1	"	"	"	"	
Thallium	**0.010**	0.50	0.0081	ug/L	1	B9I2003	09/20/09	09/23/09	EPA 6020 (Dissolved)	J
Zinc	<20	20	4.4	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B (Dissolved)	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0903969
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP10 (0903969-01) Water Sampled: 09/08/09 13:00 Received: 09/09/09 10:50										
1,2,4-Trichlorobenzene	<0.18	9.3	0.18	ug/L	1	B9I1503	09/15/09	09/15/09	EPA 8270C	
1,2-Dichlorobenzene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.56	9.3	0.56	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	9.3	0.74	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<1.5	9.3	1.5	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<0.93	9.3	0.93	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<0.31	9.3	0.31	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
2-Chlorophenol	<0.42	9.3	0.42	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<0.61	9.3	0.61	ug/L	1	"	"	"	"	
2-Methylphenol	<0.58	9.3	0.58	ug/L	1	"	"	"	"	
2-Nitroaniline	<0.67	9.3	0.67	ug/L	1	"	"	"	"	
2-Nitrophenol	<0.83	9.3	0.83	ug/L	1	"	"	"	"	
3,3´-Dichlorobenzidine	<6.8	23	6.8	ug/L	1	"	"	"	"	
3-Nitroaniline	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.60	9.3	0.60	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.51	9.3	0.51	ug/L	1	"	"	"	"	
4-Chloroaniline	<2.1	9.3	2.1	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
4-Methylphenol	<0.73	9.3	0.73	ug/L	1	"	"	"	"	
4-Nitroaniline	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
4-Nitrophenol	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Acenaphthene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
Acenaphthylene	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
Aniline	<2.0	9.3	2.0	ug/L	1	"	"	"	"	
Anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzidine	<17	93	17	ug/L	1	"	"	"	"	
Benzo (a) anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzo (a) pyrene	<0.27	9.3	0.27	ug/L	1	"	"	"	"	
Benzo (b) fluoranthene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0903969
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP10 (0903969-01) Water Sampled: 09/08/09 13:00 Received: 09/09/09 10:50										
Benzo (k) fluoranthene	<0.29	9.3	0.29	ug/L	1	B9I1503	09/15/09	09/15/09	EPA 8270C	
Benzoic acid	**7.1**	9.3	1.1	ug/L	1	"	"	"	"	J
Benzyl alcohol	<0.50	9.3	0.50	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.17	9.3	0.17	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.18	9.3	0.18	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.40	9.3	0.40	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Carbazole	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Chrysene	<0.25	9.3	0.25	ug/L	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dibenzofuran	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Diethyl phthalate	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dimethyl phthalate	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<0.35	9.3	0.35	ug/L	1	"	"	"	"	
Fluoranthene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Fluorene	<0.37	9.3	0.37	ug/L	1	"	"	"	"	
Hexachlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Hexachloroethane	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Isophorone	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Naphthalene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Nitrobenzene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<0.88	9.3	0.88	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Pentachlorophenol	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
Phenanthrene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Phenol	<0.53	9.3	0.53	ug/L	1	"	"	"	"	
Pyrene	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*75.9*			*48.5-114 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*84.5*			*41.7-98.4 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*53.1*			*30-93.5 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*85.0*			*47.4-97.8 %*		"	"	"	"	
Surrogate: Phenol-d6	*42.8*			*30-91.5 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*78.4*			*30-108 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0903969
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP10 (0903969-01) Water Sampled: 09/08/09 13:00 Received: 09/09/09 10:50										
1,1,1,2-Tetrachloroethane	<0.28	1.0	0.28	ug/L	1	B9I1810	09/18/09	09/18/09	EPA 8260B	
1,1,1-Trichloroethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.28	1.0	0.28	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<0.11	1.0	0.11	ug/L	1	"	"	"	"	
1,1-Dichloroethene	<0.12	1.0	0.12	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.47	5.0	0.47	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	2.5	0.24	ug/L	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.32	5.0	0.32	ug/L	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	5.0	0.60	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
2-Butanone	<0.67	20	0.67	ug/L	1	"	"	"	"	
2-Chlorotoluene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
4-Chlorotoluene	<0.14	1.0	0.14	ug/L	1	"	"	"	"	
Acetone	<2.8	20	2.8	ug/L	1	"	"	"	"	
Allyl chloride	<0.76	5.0	0.76	ug/L	1	"	"	"	"	
Benzene	<0.093	1.0	0.093	ug/L	1	"	"	"	"	
Bromobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Bromochloromethane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Bromodichloromethane	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Bromoform	<0.50	5.0	0.50	ug/L	1	"	"	"	"	
Bromomethane	<0.95	5.0	0.95	ug/L	1	"	"	"	"	
Carbon tetrachloride	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Chlorobenzene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
Chloroethane	<0.46	2.5	0.46	ug/L	1	"	"	"	"	
Chloroform	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Chloromethane	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0903969
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP10 (0903969-01) Water Sampled: 09/08/09 13:00 Received: 09/09/09 10:50										
cis-1,3-Dichloropropene	<0.16	1.0	0.16	ug/L	1	B9I1810	09/18/09	09/18/09	EPA 8260B	
Dibromochloromethane	<0.50	2.5	0.50	ug/L	1	"	"	"	"	
Dibromomethane	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<0.31	1.0	0.31	ug/L	1	"	"	"	"	
Ethyl ether	<0.53	5.0	0.53	ug/L	1	"	"	"	"	
Ethylbenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.76	10	0.76	ug/L	1	"	"	"	"	
Isopropylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
m,p-Xylene	<0.42	2.0	0.42	ug/L	1	"	"	"	"	
Methyl isobutyl ketone	<1.1	5.0	1.1	ug/L	1	"	"	"	"	
Methyl tert-butyl ether	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
Methylene chloride	<0.65	5.0	0.65	ug/L	1	"	"	"	"	
Naphthalene	<0.40	5.0	0.40	ug/L	1	"	"	"	"	
n-Butylbenzene	<0.32	2.5	0.32	ug/L	1	"	"	"	"	
n-Propylbenzene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
o-Xylene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
sec-Butylbenzene	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Styrene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
tert-Butylbenzene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Tetrachloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Tetrahydrofuran	<0.77	20	0.77	ug/L	1	"	"	"	"	
Toluene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.29	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Vinyl chloride	<0.087	1.0	0.087	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*106*			*80-121 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*98.7*			*79.9-121 %*		"	"	"	"	
Surrogate: Toluene-d8	*101*			*80-120 %*		"	"	"	"	
SOC5-GP3 (0903969-02) Water Sampled: 09/08/09 12:00 Received: 09/09/09 10:50										
1,1,1,2-Tetrachloroethane	<0.28	1.0	0.28	ug/L	1	B9I1810	09/18/09	09/18/09	EPA 8260B	
1,1,1-Trichloroethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.28	1.0	0.28	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0903969
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP3 (0903969-02) Water Sampled: 09/08/09 12:00 Received: 09/09/09 10:50										
1,1-Dichloroethane	<0.11	1.0	0.11	ug/L	1	B9I1810	09/18/09	09/18/09	EPA 8260B	
1,1-Dichloroethene	<0.12	1.0	0.12	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.47	5.0	0.47	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	2.5	0.24	ug/L	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.32	5.0	0.32	ug/L	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	5.0	0.60	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
2-Butanone	<0.67	20	0.67	ug/L	1	"	"	"	"	
2-Chlorotoluene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
4-Chlorotoluene	<0.14	1.0	0.14	ug/L	1	"	"	"	"	
Acetone	<2.8	20	2.8	ug/L	1	"	"	"	"	
Allyl chloride	<0.76	5.0	0.76	ug/L	1	"	"	"	"	
Benzene	<0.093	1.0	0.093	ug/L	1	"	"	"	"	
Bromobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Bromochloromethane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Bromodichloromethane	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Bromoform	<0.50	5.0	0.50	ug/L	1	"	"	"	"	
Bromomethane	<0.95	5.0	0.95	ug/L	1	"	"	"	"	
Carbon tetrachloride	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Chlorobenzene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
Chloroethane	<0.46	2.5	0.46	ug/L	1	"	"	"	"	
Chloroform	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Chloromethane	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Dibromochloromethane	<0.50	2.5	0.50	ug/L	1	"	"	"	"	
Dibromomethane	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<0.31	1.0	0.31	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0903969
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP3 (0903969-02) Water Sampled: 09/08/09 12:00 Received: 09/09/09 10:50										
Ethyl ether	<0.53	5.0	0.53	ug/L	1	B9I1810	09/18/09	09/18/09	EPA 8260B	
Ethylbenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.76	10	0.76	ug/L	1	"	"	"	"	
Isopropylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
m,p-Xylene	<0.42	2.0	0.42	ug/L	1	"	"	"	"	
Methyl isobutyl ketone	<1.1	5.0	1.1	ug/L	1	"	"	"	"	
Methyl tert-butyl ether	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
Methylene chloride	<0.65	5.0	0.65	ug/L	1	"	"	"	"	
Naphthalene	<0.40	5.0	0.40	ug/L	1	"	"	"	"	
n-Butylbenzene	<0.32	2.5	0.32	ug/L	1	"	"	"	"	
n-Propylbenzene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
o-Xylene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
sec-Butylbenzene	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Styrene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
tert-Butylbenzene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Tetrachloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Tetrahydrofuran	<0.77	20	0.77	ug/L	1	"	"	"	"	
Toluene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.29	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Vinyl chloride	<0.087	1.0	0.087	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*108*			*80-121 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*105*			*79.9-121 %*		"	"	"	"	
Surrogate: Toluene-d8	*101*			*80-120 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0903969
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1412 - EPA 245.1/7470A Digestion											
Blank (B9I1412-BLK1)					Prepared: 09/14/09		Analyzed: 09/15/09				
Mercury	< 0.20	0.20	0.018	ug/L							
LCS (B9I1412-BS1)					Prepared: 09/14/09		Analyzed: 09/15/09				
Mercury	2.11	0.20	0.018	ug/L	2.00		106	80-120			
LCS Dup (B9I1412-BSD1)					Prepared: 09/14/09		Analyzed: 09/15/09				
Mercury	2.13	0.20	0.018	ug/L	2.00		106	80-120	0.943	20	
Matrix Spike (B9I1412-MS1)		**Source: 0903902-01**			Prepared: 09/14/09		Analyzed: 09/15/09				
Mercury	1.96	0.20	0.018	ug/L	2.00	<0.20	98.0	75-125			
Matrix Spike Dup (B9I1412-MSD1)		**Source: 0903902-01**			Prepared: 09/14/09		Analyzed: 09/15/09				
Mercury	2.08	0.20	0.018	ug/L	2.00	<0.20	104	75-125	5.94	20	
Batch B9I2003 - EPA 200.8 Digestion											
Blank (B9I2003-BLK1)					Prepared: 09/20/09		Analyzed: 09/23/09				
Antimony	< 0.046	0.50	0.046	ug/L							
Beryllium	< 0.027	0.50	0.027	ug/L							
Thallium	< 0.0081	0.50	0.0081	ug/L							
LCS (B9I2003-BS1)					Prepared: 09/20/09		Analyzed: 09/24/09				
Antimony	23.1	0.50	0.046	ug/L	20.0		116	80-120			
Beryllium	22.4	0.50	0.027	ug/L	20.0		112	80-120			
Thallium	20.6	0.50	0.0081	ug/L	20.0		103	80-120			
LCS Dup (B9I2003-BSD1)					Prepared: 09/20/09		Analyzed: 09/23/09				
Antimony	22.1	0.50	0.046	ug/L	20.0		111	80-120	4.30	20	
Beryllium	21.9	0.50	0.027	ug/L	20.0		109	80-120	2.42	20	
Thallium	21.5	0.50	0.0081	ug/L	20.0		108	80-120	4.58	20	
Matrix Spike (B9I2003-MS1)		**Source: 0903921-02**			Prepared: 09/20/09		Analyzed: 09/23/09				
Antimony	15.7	0.50	0.046	ug/L	20.0	0.542	75.8	75-125			
Beryllium	4.78	0.50	0.027	ug/L	20.0	<0.50	23.9	75-125			M2
Thallium	21.7	0.50	0.0081	ug/L	20.0	<0.50	108	75-125			
Matrix Spike Dup (B9I2003-MSD1)		**Source: 0903921-02**			Prepared: 09/20/09		Analyzed: 09/23/09				
Antimony	19.0	0.50	0.046	ug/L	20.0	0.542	92.2	75-125	19.0	20	
Beryllium	4.96	0.50	0.027	ug/L	20.0	<0.50	24.8	75-125	3.76	20	M2
Thallium	21.7	0.50	0.0081	ug/L	20.0	<0.50	108	75-125	0.323	20	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0903969
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/24/09

DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2004 - EPA 200.7/3005A Digestion											
Blank (B9I2004-BLK1)					Prepared & Analyzed: 09/20/09						
Arsenic	< 10	10	2.0	ug/L							
Cadmium	< 1.0	1.0	0.099	ug/L							
Chromium	< 10	10	0.24	ug/L							
Copper	< 20	20	1.4	ug/L							
Lead	< 3.0	3.0	0.68	ug/L							
Nickel	< 5.0	5.0	0.28	ug/L							
Selenium	< 20	20	2.2	ug/L							
Silver	< 5.0	5.0	0.18	ug/L							
Zinc	< 20	20	4.4	ug/L							
LCS (B9I2004-BS1)					Prepared: 09/20/09		Analyzed: 09/21/09				
Arsenic	332	10	2.0	ug/L	399		83.2	80-120			
Cadmium	353	1.0	0.099	ug/L	399		88.4	80-120			
Chromium	366	10	0.24	ug/L	399		91.8	80-120			
Copper	338	20	1.4	ug/L	399		84.7	80-120			
Lead	357	3.0	0.68	ug/L	399		89.4	80-120			
Nickel	360	5.0	0.28	ug/L	399		90.3	80-120			
Selenium	330	20	2.2	ug/L	399		82.8	80-120			
Silver	34.1	5.0	0.18	ug/L	39.9		85.4	80-120			
Zinc	343	20	4.4	ug/L	399		86.0	80-120			
LCS Dup (B9I2004-BSD1)					Prepared: 09/20/09		Analyzed: 09/21/09				
Arsenic	338	10	2.0	ug/L	399		84.8	80-120	1.84	20	
Cadmium	362	1.0	0.099	ug/L	399		90.7	80-120	2.59	20	
Chromium	367	10	0.24	ug/L	399		92.1	80-120	0.260	20	
Copper	340	20	1.4	ug/L	399		85.3	80-120	0.643	20	
Lead	368	3.0	0.68	ug/L	399		92.1	80-120	2.95	20	
Nickel	364	5.0	0.28	ug/L	399		91.3	80-120	1.01	20	
Selenium	333	20	2.2	ug/L	399		83.4	80-120	0.634	20	
Silver	33.8	5.0	0.18	ug/L	39.9		84.6	80-120	0.933	20	
Zinc	348	20	4.4	ug/L	399		87.2	80-120	1.31	20	
Matrix Spike (B9I2004-MS1)		**Source: 0904026-01**			Prepared: 09/20/09		Analyzed: 09/21/09				
Arsenic	343	10	2.0	ug/L	399	<10	86.0	75-125			
Cadmium	358	1.0	0.099	ug/L	399	<1.0	89.8	75-125			
Chromium	364	10	0.24	ug/L	399	<10	91.2	75-125			
Copper	343	20	1.4	ug/L	399	<20	85.9	75-125			
Lead	362	3.0	0.68	ug/L	399	<3.0	90.7	75-125			
Nickel	361	5.0	0.28	ug/L	399	28.1	83.5	75-125			
Selenium	338	20	2.2	ug/L	399	<20	84.6	75-125			
Silver	33.9	5.0	0.18	ug/L	39.9	<5.0	85.0	75-125			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0903969
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2004 - EPA 200.7/3005A Digestion											
Matrix Spike (B9I2004-MS1)		**Source: 0904026-01**			Prepared: 09/20/09		Analyzed: 09/21/09				
Zinc	347	20	4.4	ug/L	399	<20	87.0	75-125			
Matrix Spike Dup (B9I2004-MSD1)		**Source: 0904026-01**			Prepared: 09/20/09		Analyzed: 09/21/09				
Arsenic	347	10	2.0	ug/L	399	<10	86.9	75-125	1.02	20	
Cadmium	358	1.0	0.099	ug/L	399	<1.0	89.6	75-125	0.192	20	
Chromium	361	10	0.24	ug/L	399	<10	90.4	75-125	0.798	20	
Copper	345	20	1.4	ug/L	399	<20	86.4	75-125	0.605	20	
Lead	361	3.0	0.68	ug/L	399	<3.0	90.4	75-125	0.319	20	
Nickel	362	5.0	0.28	ug/L	399	28.1	83.6	75-125	0.141	20	
Selenium	341	20	2.2	ug/L	399	<20	85.5	75-125	1.09	20	
Silver	33.8	5.0	0.18	ug/L	39.9	<5.0	84.8	75-125	0.148	20	
Zinc	366	20	4.4	ug/L	399	<20	91.7	75-125	5.18	20	

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4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0903969
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1503 - EPA 3510C (Sep Funnel)											
Blank (B9I1503-BLK1)					Prepared: 09/15/09 Analyzed: 09/16/09						
1,2,4-Trichlorobenzene	< 0.19	10	0.19	ug/L							
1,2-Dichlorobenzene	< 0.23	10	0.23	ug/L							
1,2-Diphenylhydrazine as Azobenzene	< 0.24	10	0.24	ug/L							
1,3-Dichlorobenzene	< 0.21	10	0.21	ug/L							
1,4-Dichlorobenzene	< 0.22	10	0.22	ug/L							
2,3,4,6-Tetrachlorophenol	< 0.61	10	0.61	ug/L							
2,4,5-Trichlorophenol	< 0.80	10	0.80	ug/L							
2,4,6-Trichlorophenol	< 0.48	10	0.48	ug/L							
2,4-Dichlorophenol	< 0.47	10	0.47	ug/L							
2,4-Dimethylphenol	< 1.6	10	1.6	ug/L							
2,4-Dinitrophenol	< 1.0	10	1.0	ug/L							
2,4-Dinitrotoluene	< 0.33	10	0.33	ug/L							
2,6-Dichlorophenol	< 0.48	10	0.48	ug/L							
2,6-Dinitrotoluene	< 0.36	10	0.36	ug/L							
2-Chloronaphthalene	< 0.28	10	0.28	ug/L							
2-Chlorophenol	< 0.45	10	0.45	ug/L							
2-Methylnaphthalene	< 0.66	10	0.66	ug/L							
2-Methylphenol	< 0.63	10	0.63	ug/L							
2-Nitroaniline	< 0.72	10	0.72	ug/L							
2-Nitrophenol	< 0.90	10	0.90	ug/L							
3,3´-Dichlorobenzidine	< 7.3	25	7.3	ug/L							
3-Nitroaniline	< 1.2	10	1.2	ug/L							
4,6-Dinitro-2-methylphenol	< 0.65	10	0.65	ug/L							
4-Bromophenyl phenyl ether	< 0.17	10	0.17	ug/L							
4-Chloro-3-methylphenol	< 0.55	10	0.55	ug/L							
4-Chloroaniline	< 2.3	10	2.3	ug/L							
4-Chlorophenyl phenyl ether	< 0.25	10	0.25	ug/L							
4-Methylphenol	< 0.79	10	0.79	ug/L							
4-Nitroaniline	< 0.59	10	0.59	ug/L							
4-Nitrophenol	< 1.2	10	1.2	ug/L							
Acenaphthene	< 0.36	10	0.36	ug/L							
Acenaphthylene	< 0.25	10	0.25	ug/L							
Aniline	< 2.2	10	2.2	ug/L							
Anthracene	< 0.37	10	0.37	ug/L							
Benzidine	< 18	100	18	ug/L							
Benzo (a) anthracene	< 0.37	10	0.37	ug/L							
Benzo (a) pyrene	< 0.29	10	0.29	ug/L							
Benzo (b) fluoranthene	< 0.22	10	0.22	ug/L							
Benzo (g,h,i) perylene	< 0.26	10	0.26	ug/L							

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0903969
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1503 - EPA 3510C (Sep Funnel)											
Blank (B9I1503-BLK1)					Prepared: 09/15/09	Analyzed: 09/16/09					
Benzo (k) fluoranthene	< 0.31	10	0.31	ug/L							
Benzoic acid	< 1.2	10	1.2	ug/L							
Benzyl alcohol	< 0.54	10	0.54	ug/L							
Bis(2-chloroethoxy)methane	< 0.18	10	0.18	ug/L							
Bis(2-chloroethyl)ether	< 0.17	10	0.17	ug/L							
Bis(2-chloroisopropyl)ether	< 0.19	10	0.19	ug/L							
Bis(2-ethylhexyl)phthalate	< 0.43	10	0.43	ug/L							
Butyl benzyl phthalate	< 0.37	10	0.37	ug/L							
Carbazole	< 0.26	10	0.26	ug/L							
Chrysene	< 0.27	10	0.27	ug/L							
Dibenz (a,h) anthracene	< 0.23	10	0.23	ug/L							
Dibenzofuran	< 0.39	10	0.39	ug/L							
Diethyl phthalate	< 0.23	10	0.23	ug/L							
Dimethyl phthalate	< 0.24	10	0.24	ug/L							
Di-n-butyl phthalate	< 0.28	10	0.28	ug/L							
Di-n-octyl phthalate	< 0.38	10	0.38	ug/L							
Fluoranthene	< 0.39	10	0.39	ug/L							
Fluorene	< 0.40	10	0.40	ug/L							
Hexachlorobenzene	< 0.20	10	0.20	ug/L							
Hexachlorobutadiene	< 0.26	10	0.26	ug/L							
Hexachlorocyclopentadiene	< 0.31	10	0.31	ug/L							
Hexachloroethane	< 0.31	10	0.31	ug/L							
Indeno (1,2,3-cd) pyrene	< 0.31	10	0.31	ug/L							
Isophorone	< 0.23	10	0.23	ug/L							
Naphthalene	< 0.37	10	0.37	ug/L							
Nitrobenzene	< 0.39	10	0.39	ug/L							
N-Nitrosodimethylamine	< 0.95	10	0.95	ug/L							
N-Nitrosodi-n-propylamine	< 0.21	10	0.21	ug/L							
N-Nitrosodiphenylamine	< 0.23	10	0.23	ug/L							
Pentachlorophenol	< 0.59	10	0.59	ug/L							
Phenanthrene	< 0.39	10	0.39	ug/L							
Phenol	< 0.57	10	0.57	ug/L							
Pyrene	< 0.47	10	0.47	ug/L							
Surrogate: 2,4,6-Tribromophenol	*84.8*			*ug/L*	*100*		*84.8*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*62.8*			*ug/L*	*100*		*62.8*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*37.7*			*ug/L*	*100*		*37.7*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*67.9*			*ug/L*	*100*		*67.9*	*47.4-97.8*			
Surrogate: Phenol-d6	*35.2*			*ug/L*	*100*		*35.2*	*30-91.5*			
Surrogate: Terphenyl-d14	*73.7*			*ug/L*	*100*		*73.7*	*30-108*			

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0903969
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/24/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1503 - EPA 3510C (Sep Funnel)											
LCS (B9I1503-BS1)					Prepared: 09/15/09		Analyzed: 09/16/09				
1,2,4-Trichlorobenzene	58.6	10	0.19	ug/L	100		58.6	48.2-88.3			
1,4-Dichlorobenzene	53.4	10	0.22	ug/L	100		53.4	42.8-82.2			
2,4-Dinitrotoluene	90.1	10	0.33	ug/L	100		90.1	64.6-98.9			
2-Chlorophenol	62.9	10	0.45	ug/L	100		62.9	56.5-88.1			
4-Chloro-3-methylphenol	75.0	10	0.55	ug/L	100		75.0	63.4-95.2			
4-Nitrophenol	60.6	10	1.2	ug/L	100		60.6	51.3-90.6			
Anthracene	84.4	10	0.37	ug/L	100		84.4	66.7-92.8			
Benzo (a) anthracene	91.4	10	0.37	ug/L	100		91.4	72.7-97.2			
Benzo (a) pyrene	86.3	10	0.29	ug/L	100		86.3	66.4-101			
Chrysene	90.9	10	0.27	ug/L	100		90.9	71.5-98.1			
Fluoranthene	83.5	10	0.39	ug/L	100		83.5	68.8-94			
Fluorene	80.1	10	0.40	ug/L	100		80.1	64.2-94.4			
N-Nitrosodi-n-propylamine	85.8	10	0.21	ug/L	100		85.8	63.6-92.8			
Pentachlorophenol	87.5	10	0.59	ug/L	100		87.5	60.2-101			
Phenanthrene	85.6	10	0.39	ug/L	100		85.6	68.1-94.8			
Phenol	43.1	10	0.57	ug/L	100		43.1	39.6-71			
Surrogate: 2,4,6-Tribromophenol	*87.9*			*ug/L*	*100*		*87.9*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*70.5*			*ug/L*	*100*		*70.5*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*49.7*			*ug/L*	*100*		*49.7*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*82.4*			*ug/L*	*100*		*82.4*	*47.4-97.8*			
Surrogate: Phenol-d6	*44.1*			*ug/L*	*100*		*44.1*	*30-91.5*			
Surrogate: Terphenyl-d14	*83.3*			*ug/L*	*100*		*83.3*	*30-108*			
LCS Dup (B9I1503-BSD1)					Prepared: 09/15/09		Analyzed: 09/16/09				
1,2,4-Trichlorobenzene	60.1	10	0.19	ug/L	100		60.1	48.2-88.3	2.60	20	
1,4-Dichlorobenzene	55.1	10	0.22	ug/L	100		55.1	42.8-82.2	3.10	20	
2,4-Dinitrotoluene	91.5	10	0.33	ug/L	100		91.5	64.6-98.9	1.51	20	
2-Chlorophenol	63.6	10	0.45	ug/L	100		63.6	56.5-88.1	1.07	20	
4-Chloro-3-methylphenol	77.9	10	0.55	ug/L	100		77.9	63.4-95.2	3.85	20	
4-Nitrophenol	61.0	10	1.2	ug/L	100		61.0	51.3-90.6	0.653	20	
Anthracene	86.3	10	0.37	ug/L	100		86.3	66.7-92.8	2.22	20	
Benzo (a) anthracene	93.9	10	0.37	ug/L	100		93.9	72.7-97.2	2.77	20	
Benzo (a) pyrene	88.6	10	0.29	ug/L	100		88.6	66.4-101	2.61	20	
Chrysene	93.0	10	0.27	ug/L	100		93.0	71.5-98.1	2.27	20	
Fluoranthene	85.6	10	0.39	ug/L	100		85.6	68.8-94	2.41	20	
Fluorene	81.1	10	0.40	ug/L	100		81.1	64.2-94.4	1.22	20	
N-Nitrosodi-n-propylamine	86.4	10	0.21	ug/L	100		86.4	63.6-92.8	0.697	20	
Pentachlorophenol	89.1	10	0.59	ug/L	100		89.1	60.2-101	1.80	20	
Phenanthrene	87.4	10	0.39	ug/L	100		87.4	68.1-94.8	2.15	20	
Phenol	41.6	10	0.57	ug/L	100		41.6	39.6-71	3.47	20	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0903969
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1503 - EPA 3510C (Sep Funnel)											
LCS Dup (B9I1503-BSD1)					Prepared: 09/15/09		Analyzed: 09/16/09				
Surrogate: 2,4,6-Tribromophenol	*90.1*			*ug/L*	*100*		*90.1*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*69.6*			*ug/L*	*100*		*69.6*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*47.8*			*ug/L*	*100*		*47.8*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*82.3*			*ug/L*	*100*		*82.3*	*47.4-97.8*			
Surrogate: Phenol-d6	*42.3*			*ug/L*	*100*		*42.3*	*30-91.5*			
Surrogate: Terphenyl-d14	*85.4*			*ug/L*	*100*		*85.4*	*30-108*			
Matrix Spike (B9I1503-MS1)		**Source: 0904005-01**			Prepared: 09/15/09		Analyzed: 09/16/09				
1,2,4-Trichlorobenzene	69.3	10	0.19	ug/L	101	<10	69.0	43.8-87.4			
1,4-Dichlorobenzene	61.4	10	0.22	ug/L	101	<10	61.1	43.7-78.7			
2,4-Dinitrotoluene	89.5	10	0.33	ug/L	101	<10	89.1	52.8-100			
2-Chlorophenol	60.7	10	0.45	ug/L	101	<10	60.4	30.1-95			
4-Chloro-3-methylphenol	73.8	10	0.55	ug/L	101	<10	73.5	44.8-98.7			
4-Nitrophenol	60.1	10	1.2	ug/L	101	<10	59.8	32.5-99.6			
Anthracene	83.9	10	0.37	ug/L	101	<10	83.5	44.8-97.6			
Benzo (a) anthracene	88.6	10	0.37	ug/L	101	<10	88.2	30-115			
Benzo (a) pyrene	82.5	10	0.29	ug/L	101	<10	82.1	30-110			
Chrysene	87.3	10	0.27	ug/L	101	<10	86.9	30-115			
Fluoranthene	82.6	10	0.39	ug/L	101	<10	82.1	37.4-103			
Fluorene	80.7	10	0.40	ug/L	101	<10	80.3	49.6-92.1			
N-Nitrosodi-n-propylamine	83.2	10	0.21	ug/L	101	<10	82.8	44.9-100			
Pentachlorophenol	86.5	10	0.59	ug/L	101	<10	86.0	31.2-123			
Phenanthrene	84.8	10	0.39	ug/L	101	<10	84.4	47-99.1			
Phenol	42.5	10	0.57	ug/L	101	<10	42.3	30-79.5			
Surrogate: 2,4,6-Tribromophenol	*85.1*			*ug/L*	*101*		*84.6*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*72.9*			*ug/L*	*101*		*72.5*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*47.5*			*ug/L*	*101*		*47.2*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*80.6*			*ug/L*	*101*		*80.2*	*47.4-97.8*			
Surrogate: Phenol-d6	*43.1*			*ug/L*	*101*		*42.8*	*30-91.5*			
Surrogate: Terphenyl-d14	*74.1*			*ug/L*	*101*		*73.8*	*30-108*			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0903969
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1810 - EPA 5030 Water (Purge and Trap)											
Blank (B9I1810-BLK1)					Prepared & Analyzed: 09/18/09						
1,1,1,2-Tetrachloroethane	< 0.28	1.0	0.28	ug/L							
1,1,1-Trichloroethane	< 0.17	1.0	0.17	ug/L							
1,1,2,2-Tetrachloroethane	< 0.13	1.0	0.13	ug/L							
1,1,2-Trichloroethane	< 0.19	1.0	0.19	ug/L							
1,1,2-Trichlorotrifluoroethane	< 0.28	1.0	0.28	ug/L							
1,1-Dichloroethane	< 0.11	1.0	0.11	ug/L							
1,1-Dichloroethene	< 0.12	1.0	0.12	ug/L							
1,1-Dichloropropene	< 0.15	1.0	0.15	ug/L							
1,2,3-Trichlorobenzene	< 0.47	5.0	0.47	ug/L							
1,2,3-Trichloropropane	< 0.24	2.5	0.24	ug/L							
1,2,4-Trichlorobenzene	< 0.32	5.0	0.32	ug/L							
1,2,4-Trimethylbenzene	< 0.17	1.0	0.17	ug/L							
1,2-Dibromo-3-chloropropane	< 0.60	5.0	0.60	ug/L							
1,2-Dibromoethane (EDB)	< 0.37	2.5	0.37	ug/L							
1,2-Dichlorobenzene	< 0.16	1.0	0.16	ug/L							
1,2-Dichloroethane	< 0.18	1.0	0.18	ug/L							
1,2-Dichloropropane	< 0.21	1.0	0.21	ug/L							
1,3,5-Trimethylbenzene	< 0.18	1.0	0.18	ug/L							
1,3-Dichlorobenzene	< 0.21	1.0	0.21	ug/L							
1,3-Dichloropropane	< 0.15	1.0	0.15	ug/L							
1,4-Dichlorobenzene	< 0.17	1.0	0.17	ug/L							
2,2-Dichloropropane	< 0.58	5.0	0.58	ug/L							
2-Butanone	< 0.67	20	0.67	ug/L							
2-Chlorotoluene	< 0.17	1.0	0.17	ug/L							
4-Chlorotoluene	< 0.14	1.0	0.14	ug/L							
Acetone	< 2.8	20	2.8	ug/L							
Allyl chloride	< 0.76	5.0	0.76	ug/L							
Benzene	< 0.093	1.0	0.093	ug/L							
Bromobenzene	< 0.17	1.0	0.17	ug/L							
Bromochloromethane	< 0.21	1.0	0.21	ug/L							
Bromodichloromethane	< 0.22	1.0	0.22	ug/L							
Bromoform	< 0.50	5.0	0.50	ug/L							
Bromomethane	< 0.95	5.0	0.95	ug/L							
Carbon tetrachloride	< 0.16	1.0	0.16	ug/L							
Chlorobenzene	< 0.15	1.0	0.15	ug/L							
Chloroethane	< 0.46	2.5	0.46	ug/L							
Chloroform	< 0.19	1.0	0.19	ug/L							
Chloromethane	< 0.37	2.5	0.37	ug/L							
cis-1,2-Dichloroethene	< 0.19	1.0	0.19	ug/L							

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4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0903969
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1810 - EPA 5030 Water (Purge and Trap)											
Blank (B9I1810-BLK1)					Prepared & Analyzed: 09/18/09						
cis-1,3-Dichloropropene	< 0.16	1.0	0.16	ug/L							
Dibromochloromethane	< 0.50	2.5	0.50	ug/L							
Dibromomethane	< 0.30	2.5	0.30	ug/L							
Dichlorodifluoromethane	< 0.58	5.0	0.58	ug/L							
Dichlorofluoromethane	< 0.31	1.0	0.31	ug/L							
Ethyl ether	< 0.53	5.0	0.53	ug/L							
Ethylbenzene	< 0.21	1.0	0.21	ug/L							
Hexachlorobutadiene	< 0.76	10	0.76	ug/L							
Isopropylbenzene	< 0.17	1.0	0.17	ug/L							
m,p-Xylene	< 0.42	2.0	0.42	ug/L							
Methyl isobutyl ketone	< 1.1	5.0	1.1	ug/L							
Methyl tert-butyl ether	< 0.13	1.0	0.13	ug/L							
Methylene chloride	< 0.65	5.0	0.65	ug/L							
Naphthalene	< 0.40	5.0	0.40	ug/L							
n-Butylbenzene	< 0.32	2.5	0.32	ug/L							
n-Propylbenzene	< 0.13	1.0	0.13	ug/L							
o-Xylene	< 0.18	1.0	0.18	ug/L							
p-Isopropyltoluene	< 0.30	2.5	0.30	ug/L							
sec-Butylbenzene	< 0.22	1.0	0.22	ug/L							
Styrene	< 0.13	1.0	0.13	ug/L							
tert-Butylbenzene	< 0.19	1.0	0.19	ug/L							
Tetrachloroethene	< 0.20	1.0	0.20	ug/L							
Tetrahydrofuran	< 0.77	20	0.77	ug/L							
Toluene	< 0.21	1.0	0.21	ug/L							
trans-1,2-Dichloroethene	< 0.29	1.0	0.29	ug/L							
trans-1,3-Dichloropropene	< 0.17	1.0	0.17	ug/L							
Trichloroethene	< 0.20	1.0	0.20	ug/L							
Trichlorofluoromethane	< 0.17	1.0	0.17	ug/L							
Vinyl chloride	< 0.087	1.0	0.087	ug/L							
Surrogate: 4-Bromofluorobenzene	*59.7*			*ug/L*	*55.0*		*109*	*80-121*			
Surrogate: Dibromofluoromethane	*56.1*			*ug/L*	*55.0*		*102*	*79.9-121*			
Surrogate: Toluene-d8	*55.5*			*ug/L*	*55.0*		*101*	*80-120*			
LCS (B9I1810-BS1)					Prepared & Analyzed: 09/18/09						
1,1,2,2-Tetrachloroethane	52.1	1.0	0.13	ug/L	50.0		104	80-121			
1,1-Dichloroethane	46.3	1.0	0.11	ug/L	50.0		92.6	80-125			
1,1-Dichloroethene	44.5	1.0	0.12	ug/L	50.0		89.0	80-125			
1,3,5-Trimethylbenzene	52.8	1.0	0.18	ug/L	50.0		106	75.4-125			
1,4-Dichlorobenzene	52.9	1.0	0.17	ug/L	50.0		106	75-125			
2-Chlorotoluene	51.2	1.0	0.17	ug/L	50.0		102	75.4-125			

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4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0903969
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1810 - EPA 5030 Water (Purge and Trap)											
LCS (B9I1810-BS1)					Prepared & Analyzed: 09/18/09						
Benzene	49.0	1.0	0.093	ug/L	50.0		97.9	80-120			
Bromoform	54.7	5.0	0.50	ug/L	50.0		109	80-120			
Chlorobenzene	54.2	1.0	0.15	ug/L	50.0		108	80-120			
Chloroform	46.3	1.0	0.19	ug/L	50.0		92.6	80-123			
Ethylbenzene	54.2	1.0	0.21	ug/L	50.0		108	80-120			
n-Butylbenzene	51.3	2.5	0.32	ug/L	50.0		103	75-125			
n-Propylbenzene	53.9	1.0	0.13	ug/L	50.0		108	75.8-125			
Toluene	50.8	1.0	0.21	ug/L	50.0		102	80-120			
Trichloroethene	50.0	1.0	0.20	ug/L	50.0		100	80-120			
Vinyl chloride	42.7	1.0	0.087	ug/L	50.0		85.4	75-130			
Surrogate: 4-Bromofluorobenzene	*59.6*			*ug/L*	*55.0*		*108*	*80-121*			
Surrogate: Dibromofluoromethane	*53.8*			*ug/L*	*55.0*		*97.8*	*79.9-121*			
Surrogate: Toluene-d8	*53.8*			*ug/L*	*55.0*		*97.8*	*80-120*			
Matrix Spike (B9I1810-MS1)		**Source: 0903969-01**			Prepared & Analyzed: 09/18/09						
1,1,2,2-Tetrachloroethane	51.1	1.0	0.13	ug/L	50.0	<1.0	102	76.8-125			
1,1-Dichloroethane	45.0	1.0	0.11	ug/L	50.0	<1.0	89.9	80-125			
1,1-Dichloroethene	42.7	1.0	0.12	ug/L	50.0	<1.0	85.4	80-125			
1,3,5-Trimethylbenzene	51.3	1.0	0.18	ug/L	50.0	<1.0	103	75-125			
1,4-Dichlorobenzene	51.8	1.0	0.17	ug/L	50.0	<1.0	104	75-125			
2-Chlorotoluene	48.5	1.0	0.17	ug/L	50.0	<1.0	97.0	75-125			
Benzene	46.2	1.0	0.093	ug/L	50.0	<1.0	92.4	80-120			
Bromoform	52.5	5.0	0.50	ug/L	50.0	<5.0	105	80-120			
Chlorobenzene	50.1	1.0	0.15	ug/L	50.0	<1.0	100	80-120			
Chloroform	44.8	1.0	0.19	ug/L	50.0	<1.0	89.7	79.8-125			
Ethylbenzene	50.8	1.0	0.21	ug/L	50.0	<1.0	102	80-120			
n-Butylbenzene	48.6	2.5	0.32	ug/L	50.0	<2.5	97.2	75-130			
n-Propylbenzene	50.7	1.0	0.13	ug/L	50.0	<1.0	101	75-125			
Toluene	48.3	1.0	0.21	ug/L	50.0	<1.0	96.7	80-120			
Trichloroethene	47.8	1.0	0.20	ug/L	50.0	<1.0	95.6	80-120			
Vinyl chloride	40.8	1.0	0.087	ug/L	50.0	<1.0	81.7	75-130			
Surrogate: 4-Bromofluorobenzene	*58.8*			*ug/L*	*55.0*		*107*	*80-121*			
Surrogate: Dibromofluoromethane	*53.0*			*ug/L*	*55.0*		*96.4*	*79.9-121*			
Surrogate: Toluene-d8	*54.8*			*ug/L*	*55.0*		*99.6*	*80-120*			
Matrix Spike Dup (B9I1810-MSD1)		**Source: 0903969-01**			Prepared & Analyzed: 09/18/09						
1,1,2,2-Tetrachloroethane	51.6	1.0	0.13	ug/L	50.0	<1.0	103	76.8-125	0.917	20	
1,1-Dichloroethane	45.8	1.0	0.11	ug/L	50.0	<1.0	91.5	80-125	1.79	20	
1,1-Dichloroethene	44.4	1.0	0.12	ug/L	50.0	<1.0	88.8	80-125	3.85	20	
1,3,5-Trimethylbenzene	51.8	1.0	0.18	ug/L	50.0	<1.0	104	75-125	0.985	20	

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4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0903969
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1810 - EPA 5030 Water (Purge and Trap)											
Matrix Spike Dup (B9I1810-MSD1)		**Source: 0903969-01**			Prepared & Analyzed: 09/18/09						
1,4-Dichlorobenzene	51.5	1.0	0.17	ug/L	50.0	<1.0	103	75-125	0.477	20	
2-Chlorotoluene	50.1	1.0	0.17	ug/L	50.0	<1.0	100	75-125	3.21	20	
Benzene	48.6	1.0	0.093	ug/L	50.0	<1.0	97.2	80-120	5.08	20	
Bromoform	52.5	5.0	0.50	ug/L	50.0	<5.0	105	80-120	0.0663	20	
Chlorobenzene	50.3	1.0	0.15	ug/L	50.0	<1.0	101	80-120	0.494	20	
Chloroform	46.2	1.0	0.19	ug/L	50.0	<1.0	92.5	79.8-125	3.08	20	
Ethylbenzene	50.2	1.0	0.21	ug/L	50.0	<1.0	100	80-120	1.21	20	
n-Butylbenzene	50.8	2.5	0.32	ug/L	50.0	<2.5	102	75-130	4.50	20	
n-Propylbenzene	51.6	1.0	0.13	ug/L	50.0	<1.0	103	75-125	1.83	20	
Toluene	50.8	1.0	0.21	ug/L	50.0	<1.0	102	80-120	4.93	20	
Trichloroethene	48.4	1.0	0.20	ug/L	50.0	<1.0	96.8	80-120	1.34	20	
Vinyl chloride	42.2	1.0	0.087	ug/L	50.0	<1.0	84.4	75-130	3.27	20	
Surrogate: 4-Bromofluorobenzene	*60.7*			*ug/L*	*55.0*		*110*	*80-121*			
Surrogate: Dibromofluoromethane	*54.6*			*ug/L*	*55.0*		*99.2*	*79.9-121*			
Surrogate: Toluene-d8	*56.8*			*ug/L*	*55.0*		*103*	*80-120*			

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4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0903969
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/24/09

Notes and Definitions

M2	Matrix spike recovery was low, the associated blank spike recovery was acceptable.
J	Parameter was present between the MDL and RL and should be considered an estimated value
<	Less than value listed
dry	Sample results reported on a dry weight basis
NA	Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL	Method Detection Limit
RL	Reporting Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
MS	Matrix Spike = Laboratory Fortified Matrix (LFM)

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01059601

Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

.07

Project Number: 23/19-B05,S1,R1300

Project Name: RMA SS1/R1

№ 23234

COC 1 of 1

Project Manager: SMF

Project Contact: KSN

Sampled by: ZSL

Laboratory: Legend

	Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Number of Containers/Preservative — Water: Volatile Organics (Pres.)*1	Semivolatile Organics *2	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	General (Unpreserved)*3	Cyanide (NaOH)	Nutrients (H_2SO_4)*4	Oil and Grease (H_2SO_4)	Sulfide (Zn Acetate)	Methane	Bacteria ($Na_2S_2O_3$)	DRO (HCl)	Soil: VOCs (2-oz tared MeOH)*1	GRO, BTEX (2-oz tared MeOH)*1	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.)*2	% Moisture (plastic vial, unpres.)	Total No. Of Containers	Remarks
01	1. SOC5-GP10	9-8-09	1300	X		X			3	1	1																5	VOCs, SVOCs, PPL Metals (Field Filtered) See attached list
02	2. SOC5-GP3	9-8-09	1200	X		X			3																		3	VOCs See attached list
	3.																											
	4.																											
	5.																											
	6.																											
	7.																											
	8.																											
	9.																											
	10.																											
	11.																											
	12.																											

Common Parameter/Container - Preservation Key

*1 - *Volatile Organics = BTEX, GRO, TPH, Full List*
*2 - *Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs*
*3 - *General = pH, Chloride, Flouride, Alkalinity, TSS, TDS, TS, Sulfate*
*4 - *Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN*

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
[signature]	Y N	9/9/09	0715			
Relinquished By:	On Ice? Y N	Date	Time	Received by: [signature]	Date 9/9/09	Time 10:50

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

custody seals signed + dated, 5.8°, ice

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [1]	Minnesota Tier SLV [4]	Minnesota SRV [5]	Minnesota Tier II Industrial SRV [6]
Metals										
Antimony	7440-36-0	Soil/Solid	6010B	0.0055	0.50	mg/kg	--	2.7	12	100
Arsenic	7440-38-2	Soil/Solid	6010B	0.10	0.50	mg/kg	--	15.1	9	20
Beryllium	7440-41-7	Soil/Solid	6010B	0.011	0.25	mg/kg	--	1.4	55	230
Cadmium	7440-43-9	Soil/Solid	6010B	0.025	0.25	mg/kg	--	4.4	25	200
Chromium	7440-47-3	Soil/Solid	6010B	0.012	0.50	mg/kg	--	1000000 (8)	44000 (8)	100000 (8)
Copper	7440-50-8	Soil/Solid	6010B	0.070	1.0	mg/kg	--	400	100	9000
Lead	7439-92-1	Soil/Solid	6010B	0.034	1.0	mg/kg	--	525	300	700
Nickel	7440-02-0	Soil/Solid	6010B	0.014	0.25	mg/kg	--	88	560	2500
Selenium	7782-49-2	Soil/Solid	6010B	0.11	1.0	mg/kg	--	1.5	160	1300
Silver	7440-22-4	Soil/Solid	6010B	0.0090	0.25	mg/kg	--	3.9	160	1300
Thallium	7440-28-0	Soil/Solid	6010B	0.13	2.0	mg/kg	--	--	3	21
Zinc	7440-66-6	Soil/Solid	6010B	0.22	1.0	mg/kg	--	1500	8700	75000
Metals										
Antimony	7440-36-0	Water/Liquid	6020	0.046	0.500	ug/L	6	--	--	--
Arsenic	7440-38-2	Water/Liquid	6010B	2	10.000	ug/L	--	--	--	--
Beryllium	7440-41-7	Water/Liquid	6020	0.027	0.5000	ug/L	0.08	--	--	--
Cadmium	7440-43-9	Water/Liquid	6010B	0.099	1.0000	ug/L	4	--	--	--
Chromium	7440-47-3	Water/Liquid	6010B	0.24	10.000	ug/L	100 (5)	--	--	--
Copper	7440-50-8	Water/Liquid	6010B	1.4	20.000	ug/L	--	--	--	--
Lead	7439-92-1	Water/Liquid	6010B	0.68	3.0000	ug/L	--	--	--	--
Nickel	7440-02-0	Water/Liquid	6010B	0.28	5.0000	ug/L	100	--	--	--
Selenium	7782-49-2	Water/Liquid	6010B	2.2	20.000	ug/L	30	--	--	--
Silver	7440-22-4	Water/Liquid	6010B	0.18	5.0000	ug/L	30	--	--	--
Thallium	7440-28-0	Water/Liquid	6020	0.0081	0.500	ug/L	0.6	--	--	--
Zinc	7440-66-6	Water/Liquid	6010B	4.4	20.000	ug/L	2000	--	--	--
Mercury										
Mercury	7439-97-6	Soil/Solid	7471A	0.0031	0.10	mg/kg	--	1.5 C	0.5	1.5
Mercury	7439-97-6	Water/Liquid	7470A	0.000031	0.00020	mg/L	--	--	--	--
Nitrate+Nitrite Nitrogen as N (Braun)										
N+N Nitrogen as N	NA	Water/Liquid	SM4500-NO3-F	0.007	0.02	mg/L	10 (3)	--	--	--
Total Kjeldahl Nitrogen (Braun)										
TKN as N	NA	Water/Liquid	SM4500-NH3-C	0.17	0.5	mg/L	--	--	--	--
Perchlorate (TA)										
Perchlorate	NA	Water/Liquid	314	0.36	4	ug/L	--	--	--	--
Nitrocellulose (TA)										
Nitrocellulose	NA	Soil/Solid	353.2Mod	0.78	0.5	mg/kg	--	--	--	--
Nitrocellulose (TA)										
Nitrocellulose	NA	Water/Liquid	353.2Mod	0.124	0.5	mg/L	--	--	--	--
Organochlorine Pesticides										
4,4'-DDD	72-54-8	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	56	125
4,4'-DDE	72-55-9	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	40	80
4,4'-DDT	50-29-3	Soil/Solid	8081A	0.0020	0.040	mg/kg	--	--	15	88
a-Chlordane	5103-71-9	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	--	--
Aldrin	309-00-2	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	1	2
alpha-BHC	319-84-6	Soil/Solid	8081A	0.0011	0.040	mg/kg	--	--	2	3.5
beta-BHC	319-85-7	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	7	15
delta-BHC	319-86-8	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	--	--
Dieldrin	60-57-1	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	0.8	2
Endosulfan I	959-98-8	Soil/Solid	8081A	0.0013	0.040	mg/kg	--	--	--	--
Endosulfan II	891-86-1	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
Endosulfan sulfate	1031-07-8	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
Endrin	72-20-8	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	8	56
Endrin aldehyde	7421-93-4	Soil/Solid	8081A	0.0041	0.040	mg/kg	--	--	--	--
Endrin ketone	53494-70-5	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
gamma-BHC (Lindane)	58-89-9	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	9	15
gamma-Chlordane	5566-34-7	Soil/Solid	8081A	0.0017	0.040	mg/kg	--	--	--	--
Heptachlor	76-44-8	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	2	3.5
Heptachlor epoxide	1024-57-3	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	0.4	3
Methoxychlor	72-43-5	Soil/Solid	8081A	0.0019	0.040	mg/kg	--	--	11	50
Toxaphene	8001-35-2	Soil/Solid	8081A	0.015	0.080	mg/kg	--	--	13	28
Organochlorine Pesticides										
4,4'-DDD	72-54-8	Water/Liquid	8081A	0.026	0.40	ug/L	1	--	--	--
4,4'-DDE	72-55-9	Water/Liquid	8081A	0.037	0.40	ug/L	1	--	--	--
4,4'-DDT	50-29-3	Water/Liquid	8081A	0.031	0.40	ug/L	1	--	--	--
a-Chlordane	5103-71-9	Water/Liquid	8081A	0.030	0.40	ug/L	--	--	--	--
Aldrin	309-00-2	Water/Liquid	8081A	0.036	0.40	ug/L	--	--	--	--
alpha-BHC	319-84-6	Water/Liquid	8081A	0.026	0.40	ug/L	--	--	--	--
beta-BHC	319-85-7	Water/Liquid	8081A	0.026	0.40	ug/L	--	--	--	--
delta-BHC	319-86-8	Water/Liquid	8081A	0.023	0.40	ug/L	--	--	--	--
Dieldrin	60-57-1	Water/Liquid	8081A	0.031	0.40	ug/L	0.006 (4)	--	--	--
Endosulfan I	959-98-8	Water/Liquid	8081A	0.032	0.40	ug/L	--	--	--	--
Endosulfan II	891-86-1	Water/Liquid	8081A	0.035	0.40	ug/L	--	--	--	--

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [1]	Minnesota Tier SLV [4]	Minnesota SRV [5]	Minnesota Tier II Industrial SRV [6]
Endosulfan sulfate	1031-07-8	Water/Liquid	8081A	0.034	0.40	ug/L	--	--	--	--
Endrin	72-20-8	Water/Liquid	8081A	0.029	0.40	ug/L	--	--	--	--
Endrin aldehyde	7421-93-4	Water/Liquid	8081A	0.044	0.40	ug/L	--	--	--	--
Endrin ketone	53494-70-5	Water/Liquid	8081A	0.031	0.40	ug/L	--	--	--	--
gamma-BHC (Lindane)	58-89-9	Water/Liquid	8081A	0.024	0.40	ug/L	--	--	--	--
gamma-Chlordane	5566-34-7	Water/Liquid	8081A	0.030	0.40	ug/L	--	--	--	--
Heptachlor	76-44-8	Water/Liquid	8081A	0.028	0.40	ug/L	0.08	--	--	--
Heptachlor epoxide	1024-57-3	Water/Liquid	8081A	0.030	0.40	ug/L	0.04	--	--	--
Methoxychlor	72-43-5	Water/Liquid	8081A	0.032	0.40	ug/L	--	--	--	--
Toxaphene	8001-35-2	Water/Liquid	8081A	0.069	1.00	ug/L	0.3	--	--	--
MDA List 1 Pesticides (Braun)										
EPTC	759-94-4	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Propachlor	1918-16-7	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Ethalfluralin	55283-68-6	Soil/Solid	8270C	0.014	0.04	mg/kg	--	--	--	--
Deisopropylatrazine	1007-28-9	Soil/Solid	8270C	0.0080	0.04	mg/kg	--	--	--	--
Trifluralin	1582-09-8	Soil/Solid	8270C	0.014	0.04	mg/kg	--	--	--	--
Desethylatrazine	6190-65-4	Soil/Solid	8270C	0.011	0.04	mg/kg	--	--	--	--
Phorate	298-02-2	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Prometon	1610-18-0	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Simazine	122-34-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Atrazine	1912-24-9	Soil/Solid	8270C	0.0100	0.04	mg/kg	--	--	--	--
Propazine	139-40-2	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Terbufos	13071-79-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	0.6	3.5
Fonofos	944-22-9	Soil/Solid	8270C	0.0040	0.04	mg/kg	--	--	--	--
Triallate	2303-17-5	Soil/Solid	8270C	0.0050	0.04	mg/kg	--	--	--	--
Metribuzin	21087-64-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Dimethenamid	87674-68-8	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Acetochlor	34256-82-1	Soil/Solid	8270C	0.010	0.04	mg/kg	--	--	--	--
Alachlor	15972-60-8	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Cyanazine	21725-46-2	Soil/Solid	8270C	0.0080	0.04	mg/kg	--	--	--	--
Metolachlor	51218-45-2	Soil/Solid	8270C	0.0030	0.04	mg/kg	--	--	435	3300
Chlorpyrifos	2921-88-2	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Pendimethalin	40487-42-1	Soil/Solid	8270C	0.016	0.04	mg/kg	--	--	--	--
MDA List 1 Pesticides (Braun)										
EPTC	759-94-4	Water/Liquid	8270C	0.22	0.50	ug/L	200	--	--	--
Propachlor	1918-16-7	Water/Liquid	8270C	0.14	0.50	ug/L	--	--	--	--
Ethalfluralin	55283-68-6	Water/Liquid	8270C	0.47	0.50	ug/L	300 (1)	--	--	--
Deisopropylatrazine	1007-28-9	Water/Liquid	8270C	0.26	0.50	ug/L	--	--	--	--
Trifluralin	1582-09-8	Water/Liquid	8270C	0.21	0.50	ug/L	5 (1)	--	--	--
Desethylatrazine	6190-65-4	Water/Liquid	8270C	0.29	0.50	ug/L	--	--	--	--
Phorate	298-02-2	Water/Liquid	8270C	0.58	1.00	ug/L	1 (1)	--	--	--
Prometon	1610-18-0	Water/Liquid	8270C	0.29	0.50	ug/L	100	--	--	--
Simazine	122-34-9	Water/Liquid	8270C	0.32	0.50	ug/L	4 (3)	--	--	--
Atrazine	1912-24-9	Water/Liquid	8270C	0.24	0.50	ug/L	3 (3)	--	--	--
Propazine	139-40-2	Water/Liquid	8270C	0.21	0.50	ug/L	10 (1)	--	--	--
Terbufos	13071-79-9	Water/Liquid	8270C	0.54	1.00	ug/L	0.2 (1)	--	--	--
Fonofos	944-22-9	Water/Liquid	8270C	0.30	0.50	ug/L	10 (1)	--	--	--
Triallate	2303-17-5	Water/Liquid	8270C	0.34	0.50	ug/L	9 (1)	--	--	--
Metribuzin	21087-64-9	Water/Liquid	8270C	0.35	0.50	ug/L	200	--	--	--
Dimethenamid	87674-68-8	Water/Liquid	8270C	0.24	0.50	ug/L	40 (1)	--	--	--
Acetochlor	34256-82-1	Water/Liquid	8270C	0.25	0.50	ug/L	9 (4)	--	--	--
Alachlor	15972-60-8	Water/Liquid	8270C	0.19	0.50	ug/L	5 (4)	--	--	--
Cyanazine	21725-46-2	Water/Liquid	8270C	0.48	0.50	ug/L	1	--	--	--
Metolachlor	51218-45-2	Water/Liquid	8270C	0.28	0.50	ug/L	300 (4)	--	--	--
Chlorpyrifos	2921-88-2	Water/Liquid	8270C	0.34	0.50	ug/L	20 (1)	--	--	--
Pendimethalin	40487-42-1	Water/Liquid	8270C	0.25	0.50	ug/L	--	--	--	--
MDA List 2 Pesticides (Braun)										
Dicamba	1918-00-9	Soil/Solid	8270C	0.008	0.50	mg/kg	--	--	--	--
MCPA	94-74-6	Soil/Solid	8270C	0.014	0.50	mg/kg	--	--	16	110
2,4-D	94-75-7	Soil/Solid	8270C	0.012	0.50	mg/kg	--	--	285	2200
Trichlopyr	55336-06-3	Soil/Solid	8270C	0.008	0.50	mg/kg	--	--	--	--
Pentachlorophenol	87-86-5	Soil/Solid	8270C	0.007	0.50	mg/kg	--	--	80	120
2,4,5-T.P.	93-72-1	Soil/Solid	8270C	0.007	0.50	mg/kg	--	--	--	--
2,4,5-T	93-76-5	Soil/Solid	8270C	0.009	0.50	mg/kg	--	--	290	2150
Dinoseb	88-85-7	Soil/Solid	8270C	0.005	0.50	mg/kg	--	--	--	--
2,4-D.B.	94-82-6	Soil/Solid	8270C	0.011	0.50	mg/kg	--	--	226	1750
Bentazone	25057-89-0	Soil/Solid	8270C	0.009	0.50	mg/kg	--	--	--	--
Picloram	1918-02-1	Soil/Solid	8270C	0.011	0.50	mg/kg	--	--	2000	15000
MDA List 2 Pesticides (Braun)										
Dicamba	1918-00-9	Water/Liquid	8270C	0.38	0.50	ug/L	200	--	--	--

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [1]	Minnesota Tier SLV [2]	Minnesota SRV [3]	Minnesota Tier II Industrial SRV [4]
MCPA	94-74-6	Water/Liquid	8270C	0.29	0.30	ug/L	--	--	--	--
2,4-D	94-75-7	Water/Liquid	8270C	0.26	0.50	ug/L	70	--	--	--
Trichlopyr	55336-06-3	Water/Liquid	8270C	0.41	0.50	ug/L	300 (1)	--	--	--
Pentachlorophenol	87-86-5	Water/Liquid	8270C	0.39	0.50	ug/L	1 (3)	--	--	--
2,4,5-T.P.	93-72-1	Water/Liquid	8270C	0.28	0.50	ug/L	50 (3)	--	--	--
2,4,5-T	93-76-5	Water/Liquid	8270C	0.31	0.50	ug/L	--	--	--	--
Dinoseb	88-85-7	Water/Liquid	8270C	0.34	0.50	ug/L	7 (1)	--	--	--
2,4-D.B.	94-82-6	Water/Liquid	8270C	0.15	0.50	ug/L	60 (1)	--	--	--
Bentazone	25057-89-0	Water/Liquid	8270C	0.22	0.50	ug/L	200 (1)	--	--	--
Picloram	1918-02-1	Water/Liquid	8270C	0.25	0.50	ug/L	500	--	--	--
PCBs										
Aroclor 1016	12674-11-2	Soil/Solid	8082	0.017	0.20	mg/kg	--	--	--	--
Aroclor 1221	11104-28-2	Soil/Solid	8082	0.039	0.20	mg/kg	--	--	--	--
Aroclor 1232	11141-16-5	Soil/Solid	8082	0.010	0.20	mg/kg	--	--	--	--
Aroclor 1242	53469-21-9	Soil/Solid	8082	0.016	0.20	mg/kg	--	--	--	--
Aroclor 1248	12672-29-6	Soil/Solid	8082	0.0078	0.20	mg/kg	--	--	--	--
Aroclor 1254	11097-69-1	Soil/Solid	8082	0.0071	0.20	mg/kg	--	--	--	--
Aroclor 1260	11096-82-5	Soil/Solid	8082	0.015	0.20	mg/kg	--	--	--	--
PCBs										
Aroclor 1016	12674-11-2	Water/Liquid	8082	0.41	2.0	ug/L	--	--	--	--
Aroclor 1221	11104-28-2	Water/Liquid	8082	0.36	2.0	ug/L	--	--	--	--
Aroclor 1232	11141-16-5	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1242	53469-21-9	Water/Liquid	8082	0.58	2.0	ug/L	--	--	--	--
Aroclor 1248	12672-29-6	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1254	11097-69-1	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1260	11096-82-5	Water/Liquid	8082	0.32	2.0	ug/L	--	--	--	--
VOCs - Soil/Solid										
1,1,1,2-Tetrachloroethane	630-20-6	Soil/Solid	8260B	0.019	0.25	mg/kg	--	1.4	31	51
1,1,1-Trichloroethane	71-55-6	Soil/Solid	8260B	0.0098	0.25	mg/kg	--	3.5	140	472
1,1,2,2-Tetrachloroethane	79-34-5	Soil/Solid	8260B	0.012	0.25	mg/kg	--	0.005	3.5	6.5
1,1,2-Trichloroethane	79-00-5	Soil/Solid	8260B	0.022	0.25	mg/kg	--	0.010	9	14
1,1,2-Trichlorotrifluoroethane	76-13-1	Soil/Solid	8260B	0.052	0.25	mg/kg	--	2580	3745	5430
1,1-Dichloroethane	75-34-3	Soil/Solid	8260B	0.013	0.25	mg/kg	--	0.18	34	55
1,1-Dichloroethene	75-35-4	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.025	20	60
1,1-Dichloropropene	563-58-6	Soil/Solid	8260B	0.021	0.25	mg/kg	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	Soil/Solid	8260B	0.063	0.50	mg/kg	--	--	--	--
1,2,3-Trichloropropane	96-18-4	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.35	--	--
1,2,4-Trichlorobenzene	120-82-1	Soil/Solid	8260B	0.052	0.50	mg/kg	--	0.31	200	985
1,2,4-Trimethylbenzene	95-63-6	Soil/Solid	8260B	0.013	0.25	mg/kg	--	--	8	25
1,2-Dibromo-3-chloropropane	96-12-8	Soil/Solid	8260B	0.079	0.50	mg/kg	--	0.001	--	--
1,2-Dibromoethane (EDB)	106-93-4	Soil/Solid	8260B	0.0056	0.25	mg/kg	--	0.00001	0.3	0.5
1,2-Dichlorobenzene	95-50-1	Soil/Solid	8260B	0.0055	0.25	mg/kg	--	8.1	26	75
1,2-Dichloroethane	107-06-2	Soil/Solid	8260B	0.030	0.25	mg/kg	--	0.010	4	6
1,2-Dichloropropane	78-87-5	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.011	4	6
1,3,5-Trimethylbenzene	108-67-8	Soil/Solid	8260B	0.0077	0.25	mg/kg	--	--	3	10
1,3-Dichlorobenzene	541-73-1	Soil/Solid	8260B	0.015	0.25	mg/kg	--	4.2	26	200
1,3-Dichloropropane	142-28-9	Soil/Solid	8260B	0.017	0.25	mg/kg	--	--	--	--
1,4-Dichlorobenzene	106-46-7	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.13	30	50
2,2-Dichloropropane	594-20-7	Soil/Solid	8260B	0.034	0.50	mg/kg	--	--	--	--
2-Butanone	78-93-3	Soil/Solid	8260B	0.069	2.0	mg/kg	--	--	5500	19000
2-Chlorotoluene	95-49-8	Soil/Solid	8260B	0.015	0.25	mg/kg	--	--	436	436
4-Chlorotoluene	106-43-4	Soil/Solid	8260B	0.015	0.25	mg/kg	--	--	--	--
Acetone	67-64-1	Soil/Solid	8260B	0.16	2.0	mg/kg	--	0.7	340	1000
Allyl chloride	107-05-1	Soil/Solid	8260B	0.016	0.50	mg/kg	--	0.032	--	--
Benzene	71-43-2	Soil/Solid	8260B	0.0070	0.25	mg/kg	--	0.034	6	10
Bromobenzene	108-86-1	Soil/Solid	8260B	0.017	0.25	mg/kg	--	--	--	--
Bromochloromethane	74-97-5	Soil/Solid	8260B	0.021	0.25	mg/kg	--	0.15	--	--
Bromodichloromethane	75-27-4	Soil/Solid	8260B	0.020	0.25	mg/kg	--	0.013	10	17
Bromoform	75-25-2	Soil/Solid	8260B	0.015	0.50	mg/kg	--	0.14	370	650
Bromomethane	74-83-9	Soil/Solid	8260B	0.012	0.50	mg/kg	--	0.5	0.7	2
Carbon tetrachloride	56-23-5	Soil/Solid	8260B	0.018	0.25	mg/kg	--	0.023	0.3	0.9
Chlorobenzene	108-90-7	Soil/Solid	8260B	0.011	0.25	mg/kg	--	1.1	11	32
Chloroethane	75-00-3	Soil/Solid	8260B	0.045	0.25	mg/kg	--	--	1000	3000
Chloroform	67-66-3	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.17	2.5	4
Chloromethane	74-87-3	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.006	8	23
cis-1,2-Dichloroethene	156-59-2	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.14	8	22
cis-1,3-Dichloropropene	10061-01-5	Soil/Solid	8260B	0.0098	0.25	mg/kg	--	0.005 M	--	--
Dibromochloromethane	124-48-1	Soil/Solid	8260B	0.014	0.25	mg/kg	--	0.03	12	20
Dibromomethane	74-95-3	Soil/Solid	8260B	0.021	0.25	mg/kg	--	--	260	1860
Dichlorodifluoromethane	75-71-8	Soil/Solid	8260B	0.035	0.50	mg/kg	--	38	16	50
Dichlorofluoromethane	75-43-4	Soil/Solid	8260B	0.014	0.25	mg/kg	--	--	--	--
Ethyl ether	60-29-7	Soil/Solid	8260B	0.017	0.50	mg/kg	--	1.2	--	--
Ethylbenzene	100-41-4	Soil/Solid	8260B	0.011	0.25	mg/kg	--	4.7	200	200
Hexachlorobutadiene	87-68-3	Soil/Solid	8260B	0.11	1.0	mg/kg	--	25	6	37
Isopropylbenzene	98-82-8	Soil/Solid	8260B	0.019	0.25	mg/kg	--	18	30	87

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits	Minnesota Tier SLV	Minnesota SRV	Minnesota Tier II Industrial SRV
m,p-Xylene	108-38-3/ 106-42-3	Soil/Solid	8260B	0.024	0.50	mg/kg	--	45 M	45 M	130 M
Methyl isobutyl ketone	108-10-1	Soil/Solid	8260B	0.031	0.50	mg/kg	--	0.42	1700	9000
Methyl tert-butyl ether	1634-04-4	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.027	--	--
Methylene chloride	75-09-2	Soil/Solid	8260B	0.043	1.0	mg/kg	--	0.068	97	158
Naphthalene	91-20-3	Soil/Solid	8260B	0.060	0.50	mg/kg	--	7.5	10	28
n-Butylbenzene	104-51-8	Soil/Solid	8260B	0.012	0.25	mg/kg	--	--	30	92
n-Propylbenzene	103-65-1	Soil/Solid	8260B	0.013	0.25	mg/kg	--	--	30	93
o-Xylene	95-47-6	Soil/Solid	8260B	0.015	0.25	mg/kg	--	45 M	45 M	130 M
p-Isopropyltoluene	99-87-6	Soil/Solid	8260B	0.014	0.25	mg/kg	--	--	--	--
sec-Butylbenzene	135-98-8	Soil/Solid	8260B	0.012	0.25	mg/kg	--	--	25	70
Styrene	100-42-5	Soil/Solid	8260B	0.012	0.25	mg/kg	--	1.9	210	600
tert-Butylbenzene	98-06-6	Soil/Solid	8260B	0.0073	0.25	mg/kg	--	--	30	90
Tetrachloroethene	127-18-4	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.068	72	131
Tetrahydrofuran	109-99-9	Soil/Solid	8260B	0.068	2.0	mg/kg	--	0.16	--	--
Toluene	108-88-3	Soil/Solid	8260B	0.0063	0.25	mg/kg	--	6.4	107	305
trans-1,2-Dichloroethene	156-60-5	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.27	11	33
trans-1,3-Dichloropropene	10061-02-6	Soil/Solid	8260B	0.013	0.25	mg/kg	--	0.005 M	--	--
Trichloroethene	79-01-6	Soil/Solid	8260B	0.013	0.25	mg/kg	--	0.14	29	46
Trichlorofluoromethane	75-69-4	Soil/Solid	8260B	0.035	0.25	mg/kg	--	22	67	195
Vinyl chloride	75-01-4	Soil/Solid	8260B	0.031	0.25	mg/kg	--	0.001	0.8	2.2
VOCs - Water/Liquid										
1,1,1,2-Tetrachloroethane	630-20-6	Water/Liquid	8260B	0.083	1.0	ug/L	70	--	--	--
1,1,1-Trichloroethane	71-55-6	Water/Liquid	8260B	0.098	1.0	ug/L	9000 (4)	--	--	--
1,1,2,2-Tetrachloroethane	79-34-5	Water/Liquid	8260B	0.084	1.0	ug/L	2	--	--	--
1,1,2-Trichloroethane	79-00-5	Water/Liquid	8260B	0.15	1.0	ug/L	3	--	--	--
1,1,2-Trichlorotrifluoroethane	76-13-1	Water/Liquid	8260B	0.10	1.0	ug/L	200000	--	--	--
1,1-Dichloroethane	75-34-3	Water/Liquid	8260B	0.094	1.0	ug/L	100 (7)	--	--	--
1,1-Dichloroethene	75-35-4	Water/Liquid	8260B	0.10	1.0	ug/L	200	--	--	--
1,1-Dichloropropene	563-58-6	Water/Liquid	8260B	0.099	1.0	ug/L	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	Water/Liquid	8260B	0.40	5.0	ug/L	--	--	--	--
1,2,3-Trichloropropane	96-18-4	Water/Liquid	8260B	0.13	2.5	ug/L	40	--	--	--
1,2,4-Trichlorobenzene	120-82-1	Water/Liquid	8260B	0.52	5.0	ug/L	--	--	--	--
1,2,4-Trimethylbenzene	95-63-6	Water/Liquid	8260B	0.052	1.0	ug/L	--	--	--	--
1,2-Dibromo-3-chloropropane	96-12-8	Water/Liquid	8260B	1.2	5.0	ug/L	--	--	--	--
1,2-Dibromoethane (EDB)	106-93-4	Water/Liquid	8260B	0.10	2.5	ug/L	0.004	--	--	--
1,2-Dichlorobenzene	95-50-1	Water/Liquid	8260B	0.12	1.0	ug/L	600	--	--	--
1,2-Dichloroethane	107-06-2	Water/Liquid	8260B	0.084	1.0	ug/L	4	--	--	--
1,2-Dichloropropane	78-87-5	Water/Liquid	8260B	0.13	1.0	ug/L	5	--	--	--
1,3,5-Trimethylbenzene	108-67-8	Water/Liquid	8260B	0.066	1.0	ug/L	100 (4) (6)	--	--	--
1,3-Dichlorobenzene	541-73-1	Water/Liquid	8260B	0.094	1.0	ug/L	--	--	--	--
1,3-Dichloropropane	142-28-9	Water/Liquid	8260B	0.074	1.0	ug/L	--	--	--	--
1,4-Dichlorobenzene	106-46-7	Water/Liquid	8260B	0.053	1.0	ug/L	10	--	--	--
2,2-Dichloropropane	594-20-7	Water/Liquid	8260B	0.23	5.0	ug/L	--	--	--	--
2-Butanone	78-93-3	Water/Liquid	8260B	0.58	20	ug/L	4000	--	--	--
2-Chlorotoluene	95-49-8	Water/Liquid	8260B	0.077	1.0	ug/L	--	--	--	--
4-Chlorotoluene	106-43-4	Water/Liquid	8260B	0.059	1.0	ug/L	--	--	--	--
Acetone	67-64-1	Water/Liquid	8260B	0.69	20	ug/L	700	--	--	--
Allyl chloride	107-05-1	Water/Liquid	8260B	0.28	5.0	ug/L	30	--	--	--
Benzene	71-43-2	Water/Liquid	8260B	0.047	1.0	ug/L	2 (4)	--	--	--
Bromobenzene	108-86-1	Water/Liquid	8260B	0.084	1.0	ug/L	--	--	--	--
Bromochloromethane	74-97-5	Water/Liquid	8260B	0.075	1.0	ug/L	--	--	--	--
Bromodichloromethane	75-27-4	Water/Liquid	8260B	0.13	1.0	ug/L	8	--	--	--
Bromoform	75-25-2	Water/Liquid	8260B	0.074	5.0	ug/L	40	--	--	--
Bromomethane	74-83-9	Water/Liquid	8260B	0.26	5.0	ug/L	10	--	--	--
Carbon tetrachloride	56-23-5	Water/Liquid	8260B	0.074	1.0	ug/L	3	--	--	--
Chlorobenzene	108-90-7	Water/Liquid	8260B	0.025	1.0	ug/L	100	--	--	--
Chloroethane	75-00-3	Water/Liquid	8260B	0.26	2.5	ug/L	--	--	--	--
Chloroform	67-66-3	Water/Liquid	8260B	0.098	1.0	ug/L	30 (4) (6)	--	--	--
Chloromethane	74-87-3	Water/Liquid	8260B	0.098	2.5	ug/L	--	--	--	--
cis-1,2-Dichloroethene	156-59-2	Water/Liquid	8260B	0.12	1.0	ug/L	50 (4)	--	--	--
cis-1,3-Dichloropropene	10061-01-5	Water/Liquid	8260B	0.11	1.0	ug/L	--	--	--	--
Dibromochloromethane	124-48-1	Water/Liquid	8260B	0.084	2.5	ug/L	10	--	--	--
Dibromomethane	74-95-3	Water/Liquid	8260B	0.14	2.5	ug/L	--	--	--	--
Dichlorodifluoromethane	75-71-8	Water/Liquid	8260B	0.39	5.0	ug/L	700 (4)	--	--	--
Dichlorofluoromethane	75-43-4	Water/Liquid	8260B	0.070	1.0	ug/L	--	--	--	--
Ethyl ether	60-29-7	Water/Liquid	8260B	0.10	5.0	ug/L	1000	--	--	--
Ethylbenzene	100-41-4	Water/Liquid	8260B	0.055	1.0	ug/L	700	--	--	--
Hexachlorobutadiene	87-68-3	Water/Liquid	8260B	0.58	10	ug/L	1	--	--	--
Isopropylbenzene	98-82-8	Water/Liquid	8260B	0.068	1.0	ug/L	300	--	--	--
m,p-Xylene	108-38-3 106-42-3	Water/Liquid	8260B	0.14	2.0	ug/L	10000 M	--	--	--
Methyl isobutyl ketone	108-10-1	Water/Liquid	8260B	0.13	5.0	ug/L	300	--	--	--
Methyl tert-butyl ether	1634-04-4	Water/Liquid	8260B	0.079	1.0	ug/L	--	--	--	--

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Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [a]	Minnesota Tier SLV [a]	Minnesota SRV [a]	Minnesota Tier II Industrial SRV [a]
Methylene chloride	75-09-2	Water/Liquid	8260B	0.29	5.0	ug/L	5 (3)	--	--	--
Naphthalene	91-20-3	Water/Liquid	8260B	0.38	5.0	ug/L	300	--	--	--
n-Butylbenzene	104-51-8	Water/Liquid	8260B	0.094	2.5	ug/L	--	--	--	--
n-Propylbenzene	103-65-1	Water/Liquid	8260B	0.079	1.0	ug/L	--	--	--	--
o-Xylene	95-47-6	Water/Liquid	8260B	0.074	1.0	ug/L	10000 M	--	--	--
p-Isopropyltoluene	99-87-6	Water/Liquid	8260B	0.087	2.5	ug/L	--	--	--	--
sec-Butylbenzene	135-98-8	Water/Liquid	8260B	0.030	1.0	ug/L	--	--	--	--
Styrene	100-42-5	Water/Liquid	8260B	0.072	1.0	ug/L	--	--	--	--
tert-Butylbenzene	98-06-6	Water/Liquid	8260B	0.046	1.0	ug/L	--	--	--	--
Tetrachloroethene	127-18-4	Water/Liquid	8260B	0.10	1.0	ug/L	5 (3)	--	--	--
Tetrahydrofuran	109-99-9	Water/Liquid	8260B	0.76	20	ug/L	--	--	--	--
Toluene	108-88-3	Water/Liquid	8260B	0.036	1.0	ug/L	1000	--	--	--
trans-1,2-Dichloroethene	156-60-5	Water/Liquid	8260B	0.14	1.0	ug/L	100	--	--	--
trans-1,3-Dichloropropene	10061-02-6	Water/Liquid	8260B	0.082	1.0	ug/L	--	--	--	--
Trichloroethene	79-01-6	Water/Liquid	8260B	0.097	1.0	ug/L	5 (3)	--	--	--
Trichlorofluoromethane	75-69-4	Water/Liquid	8260B	0.17	1.0	ug/L	2000	--	--	--
Vinyl chloride	75-01-4	Water/Liquid	8260B	0.10	1.0	ug/L	0.2 (4)	--	--	--
SemiVolatile Organics										
1,2,4-Trichlorobenzene	120-82-1	Soil/Solid	8270C	0.020	0.33	mg/kg	--	0.31	200	985
1,2-Dichlorobenzene	95-50-1	Soil/Solid	8270C	0.012	0.33	mg/kg	--	8.1	26	75
1,2-Diphenylhydrazine as Azobenzene	103-33-3	Soil/Solid	8270C	0.039	0.33	mg/kg	--	--	--	--
1,3-Dichlorobenzene	541-73-1	Soil/Solid	8270C	0.014	0.33	mg/kg	--	4.2	26	200
1,4-Dichlorobenzene	106-46-7	Soil/Solid	8270C	0.013	0.33	mg/kg	--	0.13	30	50
2,3,4,6-Tetrachlorophenol	58-90-2	Soil/Solid	8270C	0.072	0.67	mg/kg	--	--	636	3700
2,4,5-Trichlorophenol	95-95-4	Soil/Solid	8270C	0.039	0.67	mg/kg	--	--	1920	10600
2,4,6-Trichlorophenol	88-06-2	Soil/Solid	8270C	0.081	0.67	mg/kg	--	0.21	595	1060
2,4-Dichlorophenol	120-83-2	Soil/Solid	8270C	0.046	0.67	mg/kg	--	0.076	46	230
2,4-Dimethylphenol	105-67-9	Soil/Solid	8270C	0.079	0.67	mg/kg	--	0.34	390	1925
2,4-Dinitrophenol	51-28-5	Soil/Solid	8270C	0.064	0.67	mg/kg	--	0.014	--	--
2,4-Dinitrotoluene	121-14-2	Soil/Solid	8270C	0.044	0.33	mg/kg	--	0.001	50	355
2,6-Dichlorophenol	87-65-0	Soil/Solid	8270C	0.042	0.67	mg/kg	--	--	--	--
2,6-Dinitrotoluene	606-20-2	Soil/Solid	8270C	0.040	0.33	mg/kg	--	0.001	25	175
2-Chloronaphthalene	91-58-7	Soil/Solid	8270C	0.018	0.33	mg/kg	--	--	--	--
2-Chlorophenol	95-57-8	Soil/Solid	8270C	0.029	0.67	mg/kg	--	0.26	--	--
2-Methylnaphthalene	91-57-6	Soil/Solid	8270C	0.021	0.33	mg/kg	--	--	100	369
2-Methylphenol	95-48-7	Soil/Solid	8270C	0.019	0.67	mg/kg	--	0.064	75	352
2-Nitroaniline	88-74-4	Soil/Solid	8270C	0.041	0.33	mg/kg	--	--	--	--
2-Nitrophenol	88-75-5	Soil/Solid	8270C	0.040	0.67	mg/kg	--	0.60	--	--
3,3'-Dichlorobenzidine	91-94-1	Soil/Solid	8270C	0.21	1.6	mg/kg	--	0.36	25	50
3-Nitroaniline	99-09-2	Soil/Solid	8270C	0.041	0.33	mg/kg	--	--	--	--
4,6-Dinitro-2-methylphenol	534-52-1	Soil/Solid	8270C	0.097	0.67	mg/kg	--	--	--	--
4-Bromophenyl phenyl ether	101-55-3	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	--	--
4-Chloro-3-methylphenol	59-50-7	Soil/Solid	8270C	0.075	0.67	mg/kg	--	--	--	--
4-Chloroaniline	106-47-8	Soil/Solid	8270C	0.022	0.67	mg/kg	--	--	--	--
4-Chlorophenyl phenyl ether	7005-72-3	Soil/Solid	8270C	0.024	0.33	mg/kg	--	--	--	--
4-Methylphenol	106-44-5	Soil/Solid	8270C	0.017	0.67	mg/kg	--	0.033	10	59
4-Nitroaniline	100-01-6	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	--	--
4-Nitrophenol	100-02-7	Soil/Solid	8270C	0.081	0.67	mg/kg	--	--	--	--
Acenaphthene	83-32-9	Soil/Solid	8270C	0.020	0.33	mg/kg	--	50	1200	5260
Acenaphthylene	208-96-8	Soil/Solid	8270C	0.031	0.33	mg/kg	--	--	--	--
Aniline	62-53-3	Soil/Solid	8270C	0.034	0.67	mg/kg	--	--	--	--
Anthracene	120-12-7	Soil/Solid	8270C	0.043	0.33	mg/kg	--	942	7880	45400
Benzidine	92-87-5	Soil/Solid	8270C	0.71	2.5	mg/kg	--	--	--	--
Benzo (a) anthracene	56-55-3	Soil/Solid	8270C	0.045	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (a) pyrene	50-32-8	Soil/Solid	8270C	0.049	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (b) fluoranthene	205-99-2	Soil/Solid	8270C	0.048	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (g,h,i) perylene	191-24-2	Soil/Solid	8270C	0.050	0.33	mg/kg	--	--	--	--
Benzo (k) fluoranthene	207-08-9	Soil/Solid	8270C	0.053	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzoic acid	65-85-0	Soil/Solid	8270C	0.036	0.33	mg/kg	--	30	50000	100000
Benzyl alcohol	100-51-6	Soil/Solid	8270C	0.11	0.67	mg/kg	--	--	8700	56000
Bis(2-chloroethoxy)methane	111-91-1	Soil/Solid	8270C	0.021	0.33	mg/kg	--	--	--	--
Bis(2-chloroethyl)ether	111-44-4	Soil/Solid	8270C	0.013	0.33	mg/kg	--	0.001	2.5	5
Bis(2-chloroisopropyl)ether	39638-32-9	Soil/Solid	8270C	0.017	0.33	mg/kg	--	--	--	--
Bis(2-ethylhexyl)phthalate	117-81-7	Soil/Solid	8270C	0.046	0.33	mg/kg	--	40	570	2100
Butyl benzyl phthalate	85-68-7	Soil/Solid	8270C	0.047	0.33	mg/kg	--	28	580	3700
Carbazole	86-74-8	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	700	1310
Chrysene	218-01-9	Soil/Solid	8270C	0.049	0.33	mg/kg	--	10.2 T	2 T	3 T
Dibenz (a,h) anthracene	53-70-3	Soil/Solid	8270C	0.053	0.33	mg/kg	--	10.2 T	2 T	3 T
Dibenzofuran	132-64-9	Soil/Solid	8270C	0.022	0.33	mg/kg	--	--	104	810

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Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits	Minnesota Tier SLV *	Minnesota SRV *	Minnesota Tier II Industrial SRV *
Diethyl phthalate	84-66-2	Soil/Solid	8270C	0.045	0.33	mg/kg	--	18	--	--
Dimethyl phthalate	131-11-3	Soil/Solid	8270C	0.043	0.33	mg/kg	--	172	--	--
Di-n-butyl phthalate	84-74-2	Soil/Solid	8270C	0.054	0.33	mg/kg	--	23	2440	16300
Di-n-octyl phthalate	117-84-0	Soil/Solid	8270C	0.056	0.33	mg/kg	--	--	520	3700
Fluoranthene	206-44-0	Soil/Solid	8270C	0.047	0.33	mg/kg	--	295	1080	6800
Fluorene	86-73-7	Soil/Solid	8270C	0.011	0.33	mg/kg	--	47	850	4120
Hexachlorobenzene	118-74-1	Soil/Solid	8270C	0.041	0.33	mg/kg	--	0.32	5	9
Hexachlorobutadiene	87-68-3	Soil/Solid	8270C	0.035	0.33	mg/kg	--	25	6	37
Hexachlorocyclopentadiene	77-47-4	Soil/Solid	8270C	0.030	0.33	mg/kg	--	4.4	2	6
Hexachloroethane	67-72-1	Soil/Solid	8270C	0.018	0.33	mg/kg	--	0.050	--	--
Indeno (1,2,3-cd) pyrene	193-39-5	Soil/Solid	8270C	0.042	0.33	mg/kg	--	10.2 T	2 T	3 T
Isophorone	78-59-1	Soil/Solid	8270C	0.018	0.33	mg/kg	--	0.16	--	--
Naphthalene	91-20-3	Soil/Solid	8270C	0.015	0.33	mg/kg	--	7.5	10	28
Nitrobenzene	98-95-3	Soil/Solid	8270C	0.014	0.33	mg/kg	--	--	--	--
N-Nitrosodimethylamine	62-75-9	Soil/Solid	8270C	0.028	0.33	mg/kg	--	0.82	--	--
N-Nitrosodi-n-propylamine	621-64-7	Soil/Solid	8270C	0.014	0.33	mg/kg	--	--	0.7	1.2
N-Nitrosodiphenylamine **	86-30-6	Soil/Solid	8270C	0.045	0.33	mg/kg	--	0.88	1950	3720
Diphenylamine ***	122-39-4	Soil/Solid	8270C	--	--	--	--	--	--	--
Pentachlorophenol	87-86-5	Soil/Solid	8270C	0.081	0.67	mg/kg	--	0.034	80	120
Phenanthrene	85-01-8	Soil/Solid	8270C	0.026	0.33	mg/kg	--	--	--	--
Phenol	108-95-2	Soil/Solid	8270C	0.027	0.67	mg/kg	--	7.8	1500	20203
Pyrene	129-00-0	Soil/Solid	8270C	0.046	0.33	mg/kg	--	272	890	5800
2,4-Dinitrotoluene (DNT)	121-14-2	Soil/Solid	8270C	0.063	3.0	mg/kg	--	0.001	50	355
2,6-Dinitrotoluene (DNT)	606-20-2	Soil/Solid	8270C	0.13	3.0	mg/kg	--	0.001	25	175
SemiVolatile Organics										
1,2,4-Trichlorobenzene	120-82-1	Water/Liquid	8270C	0.28	10	ug/L	--	--	--	--
1,2-Dichlorobenzene	95-50-1	Water/Liquid	8270C	0.21	10	ug/L	600	--	--	--
1,2-Diphenylhydrazine as Azobenzene	103-33-3	Water/Liquid	8270C	0.20	10	ug/L	--	--	--	--
1,3-Dichlorobenzene	541-73-1	Water/Liquid	8270C	0.21	10	ug/L	--	--	--	--
1,4-Dichlorobenzene	106-46-7	Water/Liquid	8270C	0.18	10	ug/L	10	--	--	--
2,3,4,6-Tetrachlorophenol	58-90-2	Water/Liquid	8270C	1.0	10	ug/L	--	--	--	--
2,4,5-Trichlorophenol	95-95-4	Water/Liquid	8270C	0.85	10	ug/L	--	--	--	--
2,4,6-Trichlorophenol	88-06-2	Water/Liquid	8270C	0.89	10	ug/L	30	--	--	--
2,4-Dichlorophenol	120-83-2	Water/Liquid	8270C	0.78	10	ug/L	20	--	--	--
2,4-Dimethylphenol	105-67-9	Water/Liquid	8270C	0.78	10	ug/L	100	--	--	--
2,4-Dinitrophenol	51-28-5	Water/Liquid	8270C	0.50	10	ug/L	10	--	--	--
2,4-Dinitrotoluene	121-14-2	Water/Liquid	8270C	0.49	10	ug/L	0.5 (2)	--	--	--
2,6-Dichlorophenol	87-65-0	Water/Liquid	8270C	0.78	10	ug/L	--	--	--	--
2,6-Dinitrotoluene	606-20-2	Water/Liquid	8270C	0.39	10	ug/L	0.5 (2)	--	--	--
2-Chloronaphthalene	91-58-7	Water/Liquid	8270C	0.20	10	ug/L	--	--	--	--
2-Chlorophenol	95-57-8	Water/Liquid	8270C	0.66	10	ug/L	30	--	--	--
2-Methylnaphthalene	91-57-6	Water/Liquid	8270C	0.32	10	ug/L	--	--	--	--
2-Methylphenol	95-48-7	Water/Liquid	8270C	0.77	10	ug/L	30	--	--	--
2-Nitroaniline	88-74-4	Water/Liquid	8270C	0.92	10	ug/L	--	--	--	--
2-Nitrophenol	88-75-5	Water/Liquid	8270C	1.0	10	ug/L	--	--	--	--
3,3'-Dichlorobenzidine	91-94-1	Water/Liquid	8270C	7.1	25	ug/L	0.8	--	--	--
3-Nitroaniline	99-09-2	Water/Liquid	8270C	0.95	10	ug/L	--	--	--	--
4,6-Dinitro-2-methylphenol	534-52-1	Water/Liquid	8270C	0.90	10	ug/L	--	--	--	--
4-Bromophenyl phenyl ether	101-55-3	Water/Liquid	8270C	0.19	10	ug/L	--	--	--	--
4-Chloro-3-methylphenol	59-50-7	Water/Liquid	8270C	0.79	10	ug/L	--	--	--	--
4-Chloroaniline	106-47-8	Water/Liquid	8270C	1.0	10	ug/L	--	--	--	--
4-Chlorophenol	106-48-9	Water/Liquid	8270C	NA	NA	ug/L	--	--	--	--
4-Chlorophenyl phenyl ether	7005-72-3	Water/Liquid	8270C	0.15	10	ug/L	--	--	--	--
4-Methylphenol	106-44-5	Water/Liquid	8270C	0.82	10	ug/L	3	--	--	--
4-Nitroaniline	100-01-6	Water/Liquid	8270C	0.63	10	ug/L	--	--	--	--
4-Nitrophenol	100-02-7	Water/Liquid	8270C	1.2	10	ug/L	--	--	--	--
Acenaphthene	83-32-9	Water/Liquid	8270C	0.15	10	ug/L	400	--	--	--
Acenaphthylene	208-96-8	Water/Liquid	8270C	0.17	10	ug/L	--	--	--	--
Aniline	62-53-3	Water/Liquid	8270C	0.97	10	ug/L	--	--	--	--
Anthracene	120-12-7	Water/Liquid	8270C	0.19	10	ug/L	2000	--	--	--
Benzidine	92-87-5	Water/Liquid	8270C	23	100	ug/L	--	--	--	--
Benzo (a) anthracene	56-55-3	Water/Liquid	8270C	0.18	10	ug/L	--	--	--	--
Benzo (a) pyrene	50-32-8	Water/Liquid	8270C	0.22	10	ug/L	--	--	--	--
Benzo (b) fluoranthene	205-99-2	Water/Liquid	8270C	0.18	10	ug/L	--	--	--	--
Benzo (g,h,i) perylene	191-24-2	Water/Liquid	8270C	0.24	10	ug/L	--	--	--	--
Benzo (k) fluoranthene	207-08-9	Water/Liquid	8270C	0.21	10	ug/L	--	--	--	--
Benzoic acid	65-85-0	Water/Liquid	8270C	0.75	10	ug/L	30000	--	--	--
Benzyl alcohol	100-51-6	Water/Liquid	8270C	0.66	10	ug/L	--	--	--	--
Bis(2-chloroethoxy)methane	111-91-1	Water/Liquid	8270C	0.21	10	ug/L	--	--	--	--

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [3]	Minnesota Tier SLV [4]	Minnesota SRV [5]	Minnesota Tier II Industrial SRV [6]
Bis(2-chloroethyl)ether	111-44-4	Water/Liquid	8270C	0.21	10	ug/L	0.3	--	--	--
Bis(2-chloroisopropyl)ether	39638-32-9	Water/Liquid	8270C	0.14	10	ug/L	--	--	--	--
Bis(2-ethylhexyl)phthalate	117-81-7	Water/Liquid	8270C	0.45	10	ug/L	20 (1)	--	--	--
Butyl benzyl phthalate	85-68-7	Water/Liquid	8270C	0.33	10	ug/L	100	--	--	--
Carbazole	86-74-8	Water/Liquid	8270C	0.24	10	ug/L	--	--	--	--
Chrysene	218-01-9	Water/Liquid	8270C	0.15	10	ug/L	--	--	--	--
Dibenz (a,h) anthracene	53-70-3	Water/Liquid	8270C	0.25	10	ug/L	--	--	--	--
Dibenzofuran	132-64-9	Water/Liquid	8270C	0.27	10	ug/L	--	--	--	--
Diethyl phthalate	84-66-2	Water/Liquid	8270C	0.32	10	ug/L	6000	--	--	--
Dimethyl phthalate	131-11-3	Water/Liquid	8270C	0.26	10	ug/L	70000	--	--	--
Di-n-butyl phthalate	84-74-2	Water/Liquid	8270C	0.33	10	ug/L	700	--	--	--
Di-n-octyl phthalate	117-84-0	Water/Liquid	8270C	0.42	10	ug/L	--	--	--	--
Fluoranthene	206-44-0	Water/Liquid	8270C	0.23	10	ug/L	300	--	--	--
Fluorene	86-73-7	Water/Liquid	8270C	0.16	10	ug/L	300	--	--	--
Hexachlorobenzene	118-74-1	Water/Liquid	8270C	0.15	10	ug/L	0.2	--	--	--
Hexachlorobutadiene	87-68-3	Water/Liquid	8270C	0.34	10	ug/L	1	--	--	--
Hexachlorocyclopentadiene	77-47-4	Water/Liquid	8270C	0.22	10	ug/L	--	--	--	--
Hexachloroethane	67-72-1	Water/Liquid	8270C	0.30	10	ug/L	--	--	--	--
Indeno (1,2,3-cd) pyrene	193-39-5	Water/Liquid	8270C	0.19	10	ug/L	--	--	--	--
Isophorone	78-59-1	Water/Liquid	8270C	0.23	10	ug/L	100	--	--	--
Naphthalene	91-20-3	Water/Liquid	8270C	0.19	10	ug/L	300	--	--	--
Nitrobenzene	98-95-3	Water/Liquid	8270C	0.26	10	ug/L	--	--	--	--
N-Nitrosodimethylamine	62-75-9	Water/Liquid	8270C	0.30	10	ug/L	--	--	--	--
N-Nitrosodi-n-propylamine	621-64-7	Water/Liquid	8270C	0.28	10	ug/L	--	--	--	--
N-Nitrosodiphenylamine ***	86-30-6	Water/Liquid	8270C	0.27	10	ug/L	70	--	--	--
Diphenylamine ***	122-39-4	Water/Liquid	8270C	--	--	--	--	--	--	--
Pentachlorophenol	87-86-5	Water/Liquid	8270C	0.99	10	ug/L	1 (3)	--	--	--
Phenanthrene	85-01-8	Water/Liquid	8270C	0.13	10	ug/L	--	--	--	--
Phenol	108-95-2	Water/Liquid	8270C	0.59	10	ug/L	4000	--	--	--
Pyrene	129-00-0	Water/Liquid	8270C	0.24	10	ug/L	200	--	--	--

Notes:
M - the values with this notation indicate the limit is for all combined isomers of this compound
T - the values with this notation represent the limit for the total carcinogenic PAHs as BaP
C - Mercury as mercuric chloride
(TA) - Legend Technical Services, Inc. will subcontract this analysis to Test America, West Sacramento, California.
(Braun) - Legend Technical Services, Inc. will subcontract this analysis to Braun Intertec, Minneapolis, MN.
(1) Not a HRL but a Health Based Value (HBV)
(2) (SRL)-Specific Risk Level (water concentration which corresponds to a riskof 1E-5.
(3) Not a HRL but an EPA Maximum Contaminant Level (MCL).
(4) Value is representative of the lowest exposure duration published in the 2008 Health Risk Limits.
(5) Value represents the criteria for Chromium, hexavalent.
(6) Set at short-term HRL.
(7) Not a HRL, but a Risk Assessment Advice (RAA).
(8) Value represents the criteria for Chromium, Trivalent.
[3] - Minnesota Department of Health, Health Risk Limit (HRL) unless noted otherwise.
[4] - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Soil Leaching Value (SLV)
[5] - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Soil Reference Value (SRV)
[6] - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Tier II Industrial SRV.

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September 25, 2009

Ms. Kelly Neppl
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0904018
RE: 23190B05.07

Enclosed are the results of analyses for samples received by the laboratory on 09/11/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of this report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

Terri Olson
Client Manager II
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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC3-GP2R	0904018-01	Water	09/10/09 09:10	09/11/09 10:40
SOC3-GP3R	0904018-02	Water	09/10/09 09:00	09/11/09 10:40
SOC4-GP7_1-2	0904018-03	Soil	09/10/09 11:45	09/11/09 10:40
SOC4-GP4_1-2	0904018-04	Soil	09/10/09 13:00	09/11/09 10:40
Dup-2 (Geoprobe)	0904018-05	Soil	09/10/09 12:00	09/11/09 10:40
SOC4-GP4	0904018-06	Water	09/10/09 15:00	09/11/09 10:40
SOC4-GP5 _1-3	0904018-07	Soil	09/10/09 16:30	09/11/09 10:40
SOC4-GP5	0904018-08	Water	09/10/09 17:00	09/11/09 10:40
Trip Blank	0904018-09	Methanol	05/29/09 00:00	09/11/09 10:40

Shipping Container Information

Default Cooler Temperature (°C): 5.6

Received on ice: Yes
Received on melt water: No
Custody seals: Yes

Temperature blank was present
Ambient: No

Received on ice pack: No
Acceptable (IH/ISO only): No

Case Narrative:

MN Certification does not apply to dichlorofluoromethane, tetrahydrofuran, and 1,1,2-trichlorotrifluoroethane in the 8260B analysis or to carbazole in the 8270C analysis.

Beryllium recoveries in the MS/MSD samples for 6020 batch B9I2003 were below laboratory control limits. Recoveries in the LCS/LCSD samples and the corresponding RPDs were within limits. The MS/MSD source sample was not associated with this work order.

Zinc recoveries in the MS/MSD samples for 6010 batch B9I2002 were below laboratory control limits. Recoveries in the LCS/LCSD samples and the corresponding RPDs were within limits. The MS/MSD source sample was SOC4-GP4_1-2.

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

DISSOLVED METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-GP2R (0904018-01) Water Sampled: 09/10/09 09:10 Received: 09/11/09 10:40										
Antimony	**0.40**	0.50	0.046	ug/L	1	B9I2003	09/20/09	09/21/09	EPA 6020 (Dissolved)	J
Arsenic	<10	10	2.0	ug/L	1	B9I1407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
Beryllium	<0.027	0.50	0.027	ug/L	1	B9I2003	09/20/09	09/21/09	EPA 6020 (Dissolved)	
Cadmium	<1.0	1.0	0.099	ug/L	1	B9I1407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	
Copper	<20	20	1.4	ug/L	1	"	"	"	"	
Lead	<3.0	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B9I1412	09/14/09	09/15/09	EPA 7470A (Dissolved)	
Nickel	**7.6**	5.0	0.28	ug/L	1	B9I1407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
Selenium	<20	20	2.2	ug/L	1	"	"	"	"	
Silver	<5.0	5.0	0.18	ug/L	1	"	"	"	"	
Thallium	<0.0081	0.50	0.0081	ug/L	1	B9I2003	09/20/09	09/21/09	EPA 6020 (Dissolved)	
Zinc	<20	20	4.4	ug/L	1	B9I1407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
SOC3-GP3R (0904018-02) Water Sampled: 09/10/09 09:00 Received: 09/11/09 10:40										
Antimony	**0.23**	0.50	0.046	ug/L	1	B9I2003	09/20/09	09/21/09	EPA 6020 (Dissolved)	J
Arsenic	<10	10	2.0	ug/L	1	B9I1407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
Beryllium	<0.027	0.50	0.027	ug/L	1	B9I2003	09/20/09	09/21/09	EPA 6020 (Dissolved)	
Cadmium	<1.0	1.0	0.099	ug/L	1	B9I1407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	
Copper	<20	20	1.4	ug/L	1	"	"	"	"	
Lead	<3.0	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B9I1412	09/14/09	09/15/09	EPA 7470A (Dissolved)	
Nickel	<5.0	5.0	0.28	ug/L	1	B9I1407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
Selenium	<20	20	2.2	ug/L	1	"	"	"	"	
Silver	<5.0	5.0	0.18	ug/L	1	"	"	"	"	
Thallium	<0.0081	0.50	0.0081	ug/L	1	B9I2003	09/20/09	09/21/09	EPA 6020 (Dissolved)	
Zinc	<20	20	4.4	ug/L	1	B9I1407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
SOC4-GP4 (0904018-06) Water Sampled: 09/10/09 15:00 Received: 09/11/09 10:40										
Antimony	<0.046	0.50	0.046	ug/L	1	B9I2003	09/20/09	09/21/09	EPA 6020 (Dissolved)	
Arsenic	<10	10	2.0	ug/L	1	B9I1407	09/14/09	09/14/09	EPA 6010B (Dissolved)	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

DISSOLVED METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP4 (0904018-06) Water Sampled: 09/10/09 15:00 Received: 09/11/09 10:40										
Beryllium	<0.027	0.50	0.027	ug/L	1	B9I2003	09/20/09	09/21/09	EPA 6020 (Dissolved)	
Cadmium	<1.0	1.0	0.099	ug/L	1	B9I1407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	
Copper	<20	20	1.4	ug/L	1	"	"	"	"	
Lead	<3.0	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B9I1412	09/14/09	09/15/09	EPA 7470A (Dissolved)	
Nickel	**5.1**	5.0	0.28	ug/L	1	B9I1407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
Selenium	<20	20	2.2	ug/L	1	"	"	"	"	
Silver	<5.0	5.0	0.18	ug/L	1	"	"	"	"	
Thallium	<0.0081	0.50	0.0081	ug/L	1	B9I2003	09/20/09	09/21/09	EPA 6020 (Dissolved)	
Zinc	<20	20	4.4	ug/L	1	B9I1407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
SOC4-GP5 (0904018-08) Water Sampled: 09/10/09 17:00 Received: 09/11/09 10:40										
Antimony	**0.20**	0.50	0.046	ug/L	1	B9I2003	09/20/09	09/21/09	EPA 6020 (Dissolved)	J
Arsenic	<10	10	2.0	ug/L	1	B9I1407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
Beryllium	<0.027	0.50	0.027	ug/L	1	B9I2003	09/20/09	09/21/09	EPA 6020 (Dissolved)	
Cadmium	<1.0	1.0	0.099	ug/L	1	B9I1407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	
Copper	<20	20	1.4	ug/L	1	"	"	"	"	
Lead	<3.0	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B9I1412	09/14/09	09/15/09	EPA 7470A (Dissolved)	
Nickel	**6.3**	5.0	0.28	ug/L	1	B9I1407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
Selenium	<20	20	2.2	ug/L	1	"	"	"	"	
Silver	<5.0	5.0	0.18	ug/L	1	"	"	"	"	
Thallium	**0.0093**	0.50	0.0081	ug/L	1	B9I2003	09/20/09	09/21/09	EPA 6020 (Dissolved)	J
Zinc	<20	20	4.4	ug/L	1	B9I1407	09/14/09	09/14/09	EPA 6010B (Dissolved)	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP4_1-2 (0904018-04) Soil Sampled: 09/10/09 13:00 Received: 09/11/09 10:40										
Antimony	<0.58	0.58	0.0064	mg/kg dry	1	B9I2002	09/20/09	09/21/09	EPA 6010B	
Arsenic	**5.8**	0.58	0.12	mg/kg dry	1	"	"	"	"	
Beryllium	<0.29	0.29	0.013	mg/kg dry	1	"	"	"	"	
Cadmium	<0.29	0.29	0.029	mg/kg dry	1	"	"	"	"	
Chromium	**14**	0.58	0.014	mg/kg dry	1	"	"	"	"	
Copper	**11**	1.2	0.081	mg/kg dry	1	"	"	"	"	
Lead	**8.2**	1.2	0.040	mg/kg dry	1	"	"	"	"	
Mercury	<0.12	0.12	0.0021	mg/kg dry	1	B9I2115	09/17/09	09/22/09	EPA 7471A	
Nickel	**18**	0.58	0.016	mg/kg dry	1	B9I2002	09/20/09	09/21/09	EPA 6010B	
Selenium	<1.2	1.2	0.13	mg/kg dry	1	"	"	"	"	
Silver	<0.29	0.29	0.010	mg/kg dry	1	"	"	"	"	
Thallium	<2.3	2.3	0.15	mg/kg dry	1	"	"	"	"	
Zinc	<1.2	1.2	0.26	mg/kg dry	1	"	"	"	"	M2
Dup-2 (Geoprobe) (0904018-05) Soil Sampled: 09/10/09 12:00 Received: 09/11/09 10:40										
Antimony	<0.59	0.59	0.0065	mg/kg dry	1	B9I2002	09/20/09	09/21/09	EPA 6010B	
Arsenic	**6.7**	0.59	0.12	mg/kg dry	1	"	"	"	"	
Beryllium	<0.29	0.29	0.013	mg/kg dry	1	"	"	"	"	
Cadmium	<0.29	0.29	0.029	mg/kg dry	1	"	"	"	"	
Chromium	**18**	0.59	0.014	mg/kg dry	1	"	"	"	"	
Copper	**13**	1.2	0.082	mg/kg dry	1	"	"	"	"	
Lead	**9.6**	1.2	0.040	mg/kg dry	1	"	"	"	"	
Mercury	<0.12	0.12	0.0021	mg/kg dry	1	B9I2115	09/17/09	09/22/09	EPA 7471A	
Nickel	**19**	0.59	0.016	mg/kg dry	1	B9I2002	09/20/09	09/21/09	EPA 6010B	
Selenium	<1.2	1.2	0.13	mg/kg dry	1	"	"	"	"	
Silver	<0.29	0.29	0.011	mg/kg dry	1	"	"	"	"	
Thallium	<2.4	2.4	0.15	mg/kg dry	1	"	"	"	"	
Zinc	<1.2	1.2	0.26	mg/kg dry	1	"	"	"	"	
SOC4-GP5 _1-3 (0904018-07) Soil Sampled: 09/10/09 16:30 Received: 09/11/09 10:40										
Antimony	<0.57	0.57	0.0063	mg/kg dry	1	B9I2002	09/20/09	09/21/09	EPA 6010B	
Arsenic	**5.0**	0.57	0.11	mg/kg dry	1	"	"	"	"	
Beryllium	<0.29	0.29	0.013	mg/kg dry	1	"	"	"	"	
Cadmium	<0.29	0.29	0.029	mg/kg dry	1	"	"	"	"	
Chromium	**13**	0.57	0.014	mg/kg dry	1	"	"	"	"	
Copper	**10**	1.1	0.080	mg/kg dry	1	"	"	"	"	
Lead	**7.9**	1.1	0.039	mg/kg dry	1	"	"	"	"	
Mercury	<0.11	0.11	0.0021	mg/kg dry	1	B9I2115	09/17/09	09/22/09	EPA 7471A	
Nickel	**14**	0.57	0.016	mg/kg dry	1	B9I2002	09/20/09	09/21/09	EPA 6010B	
Selenium	<1.1	1.1	0.13	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP5 _1-3 (0904018-07) Soil Sampled: 09/10/09 16:30 Received: 09/11/09 10:40										
Silver	<0.29	0.29	0.010	mg/kg dry	1	B9I2002	09/20/09	09/21/09	EPA 6010B	
Thallium	<2.3	2.3	0.15	mg/kg dry	1	"	"	"	"	
Zinc	<1.1	1.1	0.25	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

PERCENT SOLIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP7_1-2 (0904018-03) Soil Sampled: 09/10/09 11:45 Received: 09/11/09 10:40										
% Solids	**86**			%	1	B9I1410	09/14/09	09/15/09	% calculation	
SOC4-GP4_1-2 (0904018-04) Soil Sampled: 09/10/09 13:00 Received: 09/11/09 10:40										
% Solids	**86**			%	1	B9I1410	09/14/09	09/15/09	% calculation	
Dup-2 (Geoprobe) (0904018-05) Soil Sampled: 09/10/09 12:00 Received: 09/11/09 10:40										
% Solids	**85**			%	1	B9I1410	09/14/09	09/15/09	% calculation	
SOC4-GP5 _1-3 (0904018-07) Soil Sampled: 09/10/09 16:30 Received: 09/11/09 10:40										
% Solids	**87**			%	1	B9I1410	09/14/09	09/15/09	% calculation	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP7_1-2 (0904018-03) Soil Sampled: 09/10/09 11:45 Received: 09/11/09 10:40										
1,2,4-Trichlorobenzene	<0.031	0.38	0.031	mg/kg dry	1	B9I1703	09/17/09	09/17/09	EPA 8270C	
1,2-Dichlorobenzene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.044	0.78	0.044	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.028	0.78	0.028	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.041	0.78	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.041	0.78	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.78	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.067	0.78	0.067	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.050	0.78	0.050	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.044	0.78	0.044	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.041	0.78	0.041	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.042	0.78	0.042	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.45	1.9	0.45	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.086	0.78	0.086	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.047	0.78	0.047	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.78	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.031	0.78	0.031	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.78	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.78	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Benzidine	<0.84	2.9	0.84	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.040	0.38	0.040	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.035	0.38	0.035	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP7_1-2 (0904018-03) Soil Sampled: 09/10/09 11:45 Received: 09/11/09 10:40										
Benzo (k) fluoranthene	<0.036	0.38	0.036	mg/kg dry	1	B9I1703	09/17/09	09/17/09	EPA 8270C	
Benzoic acid	<0.067	0.38	0.067	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.78	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Carbazole	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Chrysene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.040	0.38	0.040	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.017	0.38	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.043	0.38	0.043	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Fluorene	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.019	0.38	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.048	0.38	0.048	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.035	0.38	0.035	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.78	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.066	0.78	0.066	mg/kg dry	1	"	"	"	"	
Pyrene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*80.4*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*64.8*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*66.8*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*68.8*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*74.0*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*69.6*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP4_1-2 (0904018-04) Soil Sampled: 09/10/09 13:00 Received: 09/11/09 10:40										
1,2,4-Trichlorobenzene	<0.031	0.38	0.031	mg/kg dry	1	B9I1703	09/17/09	09/17/09	EPA 8270C	
1,2-Dichlorobenzene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.044	0.78	0.044	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.028	0.78	0.028	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.041	0.78	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.041	0.78	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.78	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.067	0.78	0.067	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.050	0.78	0.050	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.044	0.78	0.044	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.041	0.78	0.041	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.042	0.78	0.042	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.45	1.9	0.45	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.086	0.78	0.086	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.047	0.78	0.047	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.78	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.031	0.78	0.031	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.78	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.78	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Benzidine	<0.84	2.9	0.84	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.040	0.38	0.040	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.035	0.38	0.035	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP4_1-2 (0904018-04) Soil Sampled: 09/10/09 13:00 Received: 09/11/09 10:40										
Benzo (k) fluoranthene	<0.036	0.38	0.036	mg/kg dry	1	B9I1703	09/17/09	09/17/09	EPA 8270C	
Benzoic acid	<0.067	0.38	0.067	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.78	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Carbazole	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Chrysene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.040	0.38	0.040	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.017	0.38	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.043	0.38	0.043	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Fluorene	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.019	0.38	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.048	0.38	0.048	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.035	0.38	0.035	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.78	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.066	0.78	0.066	mg/kg dry	1	"	"	"	"	
Pyrene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*78.2*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*63.7*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*69.5*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*69.9*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*75.2*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*66.7*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dup-2 (Geoprobe) (0904018-05) Soil Sampled: 09/10/09 12:00 Received: 09/11/09 10:40										
1,2,4-Trichlorobenzene	<0.032	0.39	0.032	mg/kg dry	1	B9I1703	09/17/09	09/17/09	EPA 8270C	
1,2-Dichlorobenzene	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.028	0.39	0.028	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.045	0.79	0.045	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.028	0.79	0.028	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.041	0.79	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.041	0.79	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.79	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.068	0.79	0.068	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.051	0.79	0.051	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.39	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.39	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.045	0.79	0.045	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.041	0.79	0.041	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.042	0.79	0.042	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.46	1.9	0.46	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.087	0.79	0.087	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.39	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.047	0.79	0.047	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.79	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.032	0.79	0.032	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.79	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
Aniline	<0.11	0.79	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
Benzidine	<0.85	2.9	0.85	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.032	0.39	0.032	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.032	0.39	0.032	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.040	0.39	0.040	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.035	0.39	0.035	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dup-2 (Geoprobe) (0904018-05) Soil	**Sampled: 09/10/09 12:00**			**Received: 09/11/09 10:40**						
Benzo (k) fluoranthene	<0.036	0.39	0.036	mg/kg dry	1	B9I1703	09/17/09	09/17/09	EPA 8270C	
Benzoic acid	<0.068	0.39	0.068	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.79	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.028	0.39	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.026	0.39	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
Carbazole	<0.026	0.39	0.026	mg/kg dry	1	"	"	"	"	
Chrysene	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.040	0.39	0.040	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.022	0.39	0.022	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.018	0.39	0.018	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.044	0.39	0.044	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.028	0.39	0.028	mg/kg dry	1	"	"	"	"	
Fluorene	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.019	0.39	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.048	0.39	0.048	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.038	0.39	0.038	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.39	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.034	0.39	0.034	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.035	0.39	0.035	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.038	0.39	0.038	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.79	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.022	0.39	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.067	0.79	0.067	mg/kg dry	1	"	"	"	"	
Pyrene	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*89.9*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*68.2*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*73.6*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*72.4*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*80.8*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*72.3*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP4 (0904018-06) Water Sampled: 09/10/09 15:00 Received: 09/11/09 10:40										
1,2,4-Trichlorobenzene	<0.18	9.3	0.18	ug/L	1	B9I1503	09/15/09	09/15/09	EPA 8270C	
1,2-Dichlorobenzene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.56	9.3	0.56	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	9.3	0.74	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<1.5	9.3	1.5	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<0.93	9.3	0.93	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<0.31	9.3	0.31	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
2-Chlorophenol	<0.42	9.3	0.42	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<0.61	9.3	0.61	ug/L	1	"	"	"	"	
2-Methylphenol	<0.58	9.3	0.58	ug/L	1	"	"	"	"	
2-Nitroaniline	<0.67	9.3	0.67	ug/L	1	"	"	"	"	
2-Nitrophenol	<0.83	9.3	0.83	ug/L	1	"	"	"	"	
3,3´-Dichlorobenzidine	<6.8	23	6.8	ug/L	1	"	"	"	"	
3-Nitroaniline	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.60	9.3	0.60	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.51	9.3	0.51	ug/L	1	"	"	"	"	
4-Chloroaniline	<2.1	9.3	2.1	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
4-Methylphenol	<0.73	9.3	0.73	ug/L	1	"	"	"	"	
4-Nitroaniline	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
4-Nitrophenol	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Acenaphthene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
Acenaphthylene	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
Aniline	<2.0	9.3	2.0	ug/L	1	"	"	"	"	
Anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzidine	<17	93	17	ug/L	1	"	"	"	"	
Benzo (a) anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzo (a) pyrene	<0.27	9.3	0.27	ug/L	1	"	"	"	"	
Benzo (b) fluoranthene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP4 (0904018-06) Water Sampled: 09/10/09 15:00 Received: 09/11/09 10:40										
Benzo (k) fluoranthene	<0.29	9.3	0.29	ug/L	1	B9I1503	09/15/09	09/15/09	EPA 8270C	
Benzoic acid	**7.9**	9.3	1.1	ug/L	1	"	"	"	"	J
Benzyl alcohol	<0.50	9.3	0.50	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.17	9.3	0.17	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.18	9.3	0.18	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.40	9.3	0.40	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Carbazole	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Chrysene	<0.25	9.3	0.25	ug/L	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dibenzofuran	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Diethyl phthalate	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dimethyl phthalate	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<0.35	9.3	0.35	ug/L	1	"	"	"	"	
Fluoranthene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Fluorene	<0.37	9.3	0.37	ug/L	1	"	"	"	"	
Hexachlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Hexachloroethane	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Isophorone	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Naphthalene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Nitrobenzene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<0.88	9.3	0.88	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Pentachlorophenol	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
Phenanthrene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Phenol	<0.53	9.3	0.53	ug/L	1	"	"	"	"	
Pyrene	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*74.6*			*48.5-114 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*86.7*			*41.7-98.4 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*71.1*			*30-93.5 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*85.4*			*47.4-97.8 %*		"	"	"	"	
Surrogate: Phenol-d6	*61.0*			*30-91.5 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*96.5*			*30-108 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP5 _1-3 (0904018-07) Soil Sampled: 09/10/09 16:30 Received: 09/11/09 10:40										
1,2,4-Trichlorobenzene	<0.031	0.38	0.031	mg/kg dry	1	B9I1703	09/17/09	09/17/09	EPA 8270C	
1,2-Dichlorobenzene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.044	0.77	0.044	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.028	0.77	0.028	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.77	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.067	0.77	0.067	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.049	0.77	0.049	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.044	0.77	0.044	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.041	0.77	0.041	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.45	1.8	0.45	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.085	0.77	0.085	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.046	0.77	0.046	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.77	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.031	0.77	0.031	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.77	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.77	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Benzidine	<0.83	2.9	0.83	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.039	0.38	0.039	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP5 _1-3 (0904018-07) Soil Sampled: 09/10/09 16:30 Received: 09/11/09 10:40										
Benzo (k) fluoranthene	<0.036	0.38	0.036	mg/kg dry	1	B9I1703	09/17/09	09/17/09	EPA 8270C	
Benzoic acid	<0.067	0.38	0.067	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.77	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.025	0.38	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Carbazole	<0.025	0.38	0.025	mg/kg dry	1	"	"	"	"	
Chrysene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.039	0.38	0.039	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.017	0.38	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.043	0.38	0.043	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Fluorene	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.018	0.38	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.047	0.38	0.047	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.77	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.066	0.77	0.066	mg/kg dry	1	"	"	"	"	
Pyrene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*83.7*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*65.6*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*69.1*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*69.0*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*75.8*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*69.7*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP5 (0904018-08) Water Sampled: 09/10/09 17:00 Received: 09/11/09 10:40										
1,2,4-Trichlorobenzene	<0.18	9.3	0.18	ug/L	1	B9I1503	09/15/09	09/15/09	EPA 8270C	
1,2-Dichlorobenzene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.56	9.3	0.56	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	9.3	0.74	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<1.5	9.3	1.5	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<0.93	9.3	0.93	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<0.31	9.3	0.31	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
2-Chlorophenol	<0.42	9.3	0.42	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<0.61	9.3	0.61	ug/L	1	"	"	"	"	
2-Methylphenol	<0.58	9.3	0.58	ug/L	1	"	"	"	"	
2-Nitroaniline	<0.67	9.3	0.67	ug/L	1	"	"	"	"	
2-Nitrophenol	<0.83	9.3	0.83	ug/L	1	"	"	"	"	
3,3´-Dichlorobenzidine	<6.8	23	6.8	ug/L	1	"	"	"	"	
3-Nitroaniline	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.60	9.3	0.60	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.51	9.3	0.51	ug/L	1	"	"	"	"	
4-Chloroaniline	<2.1	9.3	2.1	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
4-Methylphenol	<0.73	9.3	0.73	ug/L	1	"	"	"	"	
4-Nitroaniline	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
4-Nitrophenol	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Acenaphthene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
Acenaphthylene	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
Aniline	<2.0	9.3	2.0	ug/L	1	"	"	"	"	
Anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzidine	<17	93	17	ug/L	1	"	"	"	"	
Benzo (a) anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzo (a) pyrene	<0.27	9.3	0.27	ug/L	1	"	"	"	"	
Benzo (b) fluoranthene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP5 (0904018-08) Water Sampled: 09/10/09 17:00 Received: 09/11/09 10:40										
Benzo (k) fluoranthene	<0.29	9.3	0.29	ug/L	1	B9I1503	09/15/09	09/15/09	EPA 8270C	
Benzoic acid	**7.5**	9.3	1.1	ug/L	1	"	"	"	"	J
Benzyl alcohol	<0.50	9.3	0.50	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.17	9.3	0.17	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.18	9.3	0.18	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.40	9.3	0.40	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Carbazole	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Chrysene	<0.25	9.3	0.25	ug/L	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dibenzofuran	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Diethyl phthalate	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dimethyl phthalate	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<0.35	9.3	0.35	ug/L	1	"	"	"	"	
Fluoranthene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Fluorene	<0.37	9.3	0.37	ug/L	1	"	"	"	"	
Hexachlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Hexachloroethane	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Isophorone	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Naphthalene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Nitrobenzene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<0.88	9.3	0.88	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Pentachlorophenol	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
Phenanthrene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Phenol	<0.53	9.3	0.53	ug/L	1	"	"	"	"	
Pyrene	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*73.5*			*48.5-114 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*81.7*			*41.7-98.4 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*58.8*			*30-93.5 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*81.8*			*47.4-97.8 %*		"	"	"	"	
Surrogate: Phenol-d6	*49.9*			*30-91.5 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*93.4*			*30-108 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP4_1-2 (0904018-04) Soil Sampled: 09/10/09 13:00 Received: 09/11/09 10:40										
1,1,1,2-Tetrachloroethane	<0.033	0.31	0.033	mg/kg dry	1	B9I1714	09/17/09	09/17/09	EPA 8260B	
1,1,1-Trichloroethane	<0.041	0.31	0.041	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.031	0.31	0.031	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.046	0.31	0.046	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.081	0.31	0.081	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.030	0.31	0.030	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.031	0.31	0.031	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.034	0.31	0.034	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.083	0.63	0.083	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.066	0.31	0.066	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.080	0.63	0.080	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.025	0.31	0.025	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.071	0.63	0.071	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.048	0.31	0.048	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.034	0.31	0.034	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.031	0.31	0.031	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.035	0.31	0.035	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.019	0.31	0.019	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.035	0.31	0.035	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.021	0.31	0.021	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.023	0.31	0.023	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.085	0.63	0.085	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.15	2.5	0.15	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.023	0.31	0.023	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.036	0.31	0.036	mg/kg dry	1	"	"	"	"	
Acetone	<0.40	2.5	0.40	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.084	0.63	0.084	mg/kg dry	1	"	"	"	"	
Benzene	<0.019	0.31	0.019	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.024	0.31	0.024	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.031	0.31	0.031	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.044	0.31	0.044	mg/kg dry	1	"	"	"	"	
Bromoform	<0.10	0.63	0.10	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.18	0.63	0.18	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.034	0.31	0.034	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.031	0.31	0.031	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.091	0.31	0.091	mg/kg dry	1	"	"	"	"	
Chloroform	<0.053	0.31	0.053	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.051	0.31	0.051	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.058	0.31	0.058	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP4_1-2 (0904018-04) Soil Sampled: 09/10/09 13:00 Received: 09/11/09 10:40										
cis-1,3-Dichloropropene	<0.029	0.31	0.029	mg/kg dry	1	B9I1714	09/17/09	09/17/09	EPA 8260B	
Dibromochloromethane	<0.040	0.31	0.040	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.058	0.31	0.058	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.10	0.63	0.10	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.055	0.31	0.055	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.060	0.63	0.060	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.028	0.31	0.028	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.16	1.3	0.16	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.029	0.31	0.029	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.11	0.63	0.11	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.12	0.63	0.12	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.021	0.31	0.021	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.21	1.3	0.21	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.081	0.63	0.081	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.040	0.31	0.040	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.018	0.31	0.018	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.039	0.31	0.039	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.038	0.31	0.038	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.013	0.31	0.013	mg/kg dry	1	"	"	"	"	
Styrene	<0.050	0.31	0.050	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.023	0.31	0.023	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.044	0.31	0.044	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.13	2.5	0.13	mg/kg dry	1	"	"	"	"	
Toluene	<0.035	0.31	0.035	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.028	0.31	0.028	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.044	0.31	0.044	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.050	0.31	0.050	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.040	0.31	0.040	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.029	0.31	0.029	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*98.1*			*80-120 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*98.2*			*80-120 %*		"	"	"	"	
Surrogate: Toluene-d8	*94.9*			*80-120 %*		"	"	"	"	
Dup-2 (Geoprobe) (0904018-05) Soil Sampled: 09/10/09 12:00 Received: 09/11/09 10:40										
1,1,1,2-Tetrachloroethane	<0.031	0.29	0.031	mg/kg dry	1	B9I1714	09/17/09	09/17/09	EPA 8260B	
1,1,1-Trichloroethane	<0.039	0.29	0.039	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.029	0.29	0.029	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.044	0.29	0.044	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.076	0.29	0.076	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dup-2 (Geoprobe) (0904018-05) Soil Sampled: 09/10/09 12:00 Received: 09/11/09 10:40										
1,1-Dichloroethane	<0.028	0.29	0.028	mg/kg dry	1	B9I1714	09/17/09	09/17/09	EPA 8260B	
1,1-Dichloroethene	<0.029	0.29	0.029	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.032	0.29	0.032	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.078	0.59	0.078	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.062	0.29	0.062	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.075	0.59	0.075	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.024	0.29	0.024	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.067	0.59	0.067	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.045	0.29	0.045	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.032	0.29	0.032	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.029	0.29	0.029	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.033	0.29	0.033	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.018	0.29	0.018	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.033	0.29	0.033	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.020	0.29	0.020	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.021	0.29	0.021	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.080	0.59	0.080	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.14	2.4	0.14	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.021	0.29	0.021	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.034	0.29	0.034	mg/kg dry	1	"	"	"	"	
Acetone	<0.38	2.4	0.38	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.079	0.59	0.079	mg/kg dry	1	"	"	"	"	
Benzene	<0.018	0.29	0.018	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.022	0.29	0.022	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.029	0.29	0.029	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.041	0.29	0.041	mg/kg dry	1	"	"	"	"	
Bromoform	<0.094	0.59	0.094	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.16	0.59	0.16	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.032	0.29	0.032	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.029	0.29	0.029	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.086	0.29	0.086	mg/kg dry	1	"	"	"	"	
Chloroform	<0.049	0.29	0.049	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.048	0.29	0.048	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.054	0.29	0.054	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.027	0.29	0.027	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.038	0.29	0.038	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.054	0.29	0.054	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.096	0.59	0.096	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.052	0.29	0.052	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dup-2 (Geoprobe) (0904018-05) Soil Sampled: 09/10/09 12:00 Received: 09/11/09 10:40										
Ethyl ether	<0.056	0.59	0.056	mg/kg dry	1	B9I1714	09/17/09	09/17/09	EPA 8260B	
Ethylbenzene	<0.026	0.29	0.026	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.15	1.2	0.15	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.027	0.29	0.027	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.10	0.59	0.10	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.11	0.59	0.11	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.020	0.29	0.020	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.20	1.2	0.20	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.076	0.59	0.076	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.038	0.29	0.038	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.016	0.29	0.016	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.036	0.29	0.036	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.035	0.29	0.035	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.012	0.29	0.012	mg/kg dry	1	"	"	"	"	
Styrene	<0.047	0.29	0.047	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.021	0.29	0.021	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.041	0.29	0.041	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.12	2.4	0.12	mg/kg dry	1	"	"	"	"	
Toluene	<0.033	0.29	0.033	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.026	0.29	0.026	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.041	0.29	0.041	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.047	0.29	0.047	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.038	0.29	0.038	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.027	0.29	0.027	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*96.6*			*80-120 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*99.0*			*80-120 %*		"	"	"	"	
Surrogate: Toluene-d8	*93.1*			*80-120 %*		"	"	"	"	
SOC4-GP5 (0904018-08) Water Sampled: 09/10/09 17:00 Received: 09/11/09 10:40										
1,1,1,2-Tetrachloroethane	<0.28	1.0	0.28	ug/L	1	B9I1810	09/18/09	09/19/09	EPA 8260B	
1,1,1-Trichloroethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.28	1.0	0.28	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<0.11	1.0	0.11	ug/L	1	"	"	"	"	
1,1-Dichloroethene	<0.12	1.0	0.12	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.47	5.0	0.47	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	2.5	0.24	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP5 (0904018-08) Water Sampled: 09/10/09 17:00 Received: 09/11/09 10:40										
1,2,4-Trichlorobenzene	<0.32	5.0	0.32	ug/L	1	B9I1810	09/18/09	09/19/09	EPA 8260B	
1,2,4-Trimethylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	5.0	0.60	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
2-Butanone	<0.67	20	0.67	ug/L	1	"	"	"	"	
2-Chlorotoluene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
4-Chlorotoluene	<0.14	1.0	0.14	ug/L	1	"	"	"	"	
Acetone	<2.8	20	2.8	ug/L	1	"	"	"	"	
Allyl chloride	<0.76	5.0	0.76	ug/L	1	"	"	"	"	
Benzene	<0.093	1.0	0.093	ug/L	1	"	"	"	"	
Bromobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Bromochloromethane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Bromodichloromethane	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Bromoform	<0.50	5.0	0.50	ug/L	1	"	"	"	"	
Bromomethane	<0.95	5.0	0.95	ug/L	1	"	"	"	"	
Carbon tetrachloride	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Chlorobenzene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
Chloroethane	<0.46	2.5	0.46	ug/L	1	"	"	"	"	
Chloroform	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Chloromethane	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Dibromochloromethane	<0.50	2.5	0.50	ug/L	1	"	"	"	"	
Dibromomethane	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<0.31	1.0	0.31	ug/L	1	"	"	"	"	
Ethyl ether	<0.53	5.0	0.53	ug/L	1	"	"	"	"	
Ethylbenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.76	10	0.76	ug/L	1	"	"	"	"	
Isopropylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
m,p-Xylene	<0.42	2.0	0.42	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP5 (0904018-08) Water Sampled: 09/10/09 17:00 Received: 09/11/09 10:40										
Methyl isobutyl ketone	<1.1	5.0	1.1	ug/L	1	B9I1810	09/18/09	09/19/09	EPA 8260B	
Methyl tert-butyl ether	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
Methylene chloride	<0.65	5.0	0.65	ug/L	1	"	"	"	"	
Naphthalene	<0.40	5.0	0.40	ug/L	1	"	"	"	"	
n-Butylbenzene	<0.32	2.5	0.32	ug/L	1	"	"	"	"	
n-Propylbenzene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
o-Xylene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
sec-Butylbenzene	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Styrene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
tert-Butylbenzene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Tetrachloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Tetrahydrofuran	<0.77	20	0.77	ug/L	1	"	"	"	"	
Toluene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.29	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Vinyl chloride	<0.087	1.0	0.087	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*111*			*80-121 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*104*			*79.9-121 %*		"	"	"	"	
Surrogate: Toluene-d8	*101*			*80-120 %*		"	"	"	"	
Trip Blank (0904018-09) Methanol Sampled: 05/29/09 00:00 Received: 09/11/09 10:40										H3b
1,1,1,2-Tetrachloroethane	<0.026	0.25	0.026	mg/kg wet	1	B9I1714	09/17/09	09/17/09	EPA 8260B	
1,1,1-Trichloroethane	<0.033	0.25	0.033	mg/kg wet	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.025	0.25	0.025	mg/kg wet	1	"	"	"	"	
1,1,2-Trichloroethane	<0.037	0.25	0.037	mg/kg wet	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.065	0.25	0.065	mg/kg wet	1	"	"	"	"	
1,1-Dichloroethane	<0.024	0.25	0.024	mg/kg wet	1	"	"	"	"	
1,1-Dichloroethene	<0.025	0.25	0.025	mg/kg wet	1	"	"	"	"	
1,1-Dichloropropene	<0.027	0.25	0.027	mg/kg wet	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.066	0.50	0.066	mg/kg wet	1	"	"	"	"	
1,2,3-Trichloropropane	<0.053	0.25	0.053	mg/kg wet	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.064	0.50	0.064	mg/kg wet	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.020	0.25	0.020	mg/kg wet	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.057	0.50	0.057	mg/kg wet	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.038	0.25	0.038	mg/kg wet	1	"	"	"	"	
1,2-Dichlorobenzene	<0.027	0.25	0.027	mg/kg wet	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (0904018-09) Methanol Sampled: 05/29/09 00:00 Received: 09/11/09 10:40										H3b
1,2-Dichloroethane	<0.025	0.25	0.025	mg/kg wet	1	B9I1714	09/17/09	09/17/09	EPA 8260B	
1,2-Dichloropropane	<0.028	0.25	0.028	mg/kg wet	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.015	0.25	0.015	mg/kg wet	1	"	"	"	"	
1,3-Dichlorobenzene	<0.028	0.25	0.028	mg/kg wet	1	"	"	"	"	
1,3-Dichloropropane	<0.017	0.25	0.017	mg/kg wet	1	"	"	"	"	
1,4-Dichlorobenzene	<0.018	0.25	0.018	mg/kg wet	1	"	"	"	"	
2,2-Dichloropropane	<0.068	0.50	0.068	mg/kg wet	1	"	"	"	"	
2-Butanone	<0.12	2.0	0.12	mg/kg wet	1	"	"	"	"	
2-Chlorotoluene	<0.018	0.25	0.018	mg/kg wet	1	"	"	"	"	
4-Chlorotoluene	<0.029	0.25	0.029	mg/kg wet	1	"	"	"	"	
Acetone	<0.32	2.0	0.32	mg/kg wet	1	"	"	"	"	
Allyl chloride	<0.067	0.50	0.067	mg/kg wet	1	"	"	"	"	
Benzene	<0.015	0.25	0.015	mg/kg wet	1	"	"	"	"	
Bromobenzene	<0.019	0.25	0.019	mg/kg wet	1	"	"	"	"	
Bromochloromethane	<0.025	0.25	0.025	mg/kg wet	1	"	"	"	"	
Bromodichloromethane	<0.035	0.25	0.035	mg/kg wet	1	"	"	"	"	
Bromoform	<0.080	0.50	0.080	mg/kg wet	1	"	"	"	"	
Bromomethane	<0.14	0.50	0.14	mg/kg wet	1	"	"	"	"	
Carbon tetrachloride	<0.027	0.25	0.027	mg/kg wet	1	"	"	"	"	
Chlorobenzene	<0.025	0.25	0.025	mg/kg wet	1	"	"	"	"	
Chloroethane	<0.073	0.25	0.073	mg/kg wet	1	"	"	"	"	
Chloroform	<0.042	0.25	0.042	mg/kg wet	1	"	"	"	"	
Chloromethane	<0.041	0.25	0.041	mg/kg wet	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.046	0.25	0.046	mg/kg wet	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.023	0.25	0.023	mg/kg wet	1	"	"	"	"	
Dibromochloromethane	<0.032	0.25	0.032	mg/kg wet	1	"	"	"	"	
Dibromomethane	<0.046	0.25	0.046	mg/kg wet	1	"	"	"	"	
Dichlorodifluoromethane	<0.082	0.50	0.082	mg/kg wet	1	"	"	"	"	
Dichlorofluoromethane	<0.044	0.25	0.044	mg/kg wet	1	"	"	"	"	
Ethyl ether	<0.048	0.50	0.048	mg/kg wet	1	"	"	"	"	
Ethylbenzene	<0.022	0.25	0.022	mg/kg wet	1	"	"	"	"	
Hexachlorobutadiene	<0.13	1.0	0.13	mg/kg wet	1	"	"	"	"	
Isopropylbenzene	<0.023	0.25	0.023	mg/kg wet	1	"	"	"	"	
m,p-Xylene	<0.088	0.50	0.088	mg/kg wet	1	"	"	"	"	
Methyl isobutyl ketone	<0.092	0.50	0.092	mg/kg wet	1	"	"	"	"	
Methyl tert-butyl ether	<0.017	0.25	0.017	mg/kg wet	1	"	"	"	"	
Methylene chloride	<0.17	1.0	0.17	mg/kg wet	1	"	"	"	"	
Naphthalene	<0.065	0.50	0.065	mg/kg wet	1	"	"	"	"	
n-Butylbenzene	<0.032	0.25	0.032	mg/kg wet	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (0904018-09) Methanol Sampled: 05/29/09 00:00 Received: 09/11/09 10:40										H3b
n-Propylbenzene	<0.014	0.25	0.014	mg/kg wet	1	B9I1714	09/17/09	09/17/09	EPA 8260B	
o-Xylene	<0.031	0.25	0.031	mg/kg wet	1	"	"	"	"	
p-Isopropyltoluene	<0.030	0.25	0.030	mg/kg wet	1	"	"	"	"	
sec-Butylbenzene	<0.010	0.25	0.010	mg/kg wet	1	"	"	"	"	
Styrene	<0.040	0.25	0.040	mg/kg wet	1	"	"	"	"	
tert-Butylbenzene	<0.018	0.25	0.018	mg/kg wet	1	"	"	"	"	
Tetrachloroethene	<0.035	0.25	0.035	mg/kg wet	1	"	"	"	"	
Tetrahydrofuran	<0.10	2.0	0.10	mg/kg wet	1	"	"	"	"	
Toluene	<0.028	0.25	0.028	mg/kg wet	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.022	0.25	0.022	mg/kg wet	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.035	0.25	0.035	mg/kg wet	1	"	"	"	"	
Trichloroethene	<0.040	0.25	0.040	mg/kg wet	1	"	"	"	"	
Trichlorofluoromethane	<0.032	0.25	0.032	mg/kg wet	1	"	"	"	"	
Vinyl chloride	<0.023	0.25	0.023	mg/kg wet	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*97.6*			*80-120 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*97.2*			*80-120 %*		"	"	"	"	
Surrogate: Toluene-d8	*96.2*			*80-120 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1407 - EPA 200.7/3005A Digestion											
Blank (B9I1407-BLK1)					Prepared & Analyzed: 09/14/09						
Arsenic	< 10	10	2.0	ug/L							
Cadmium	< 1.0	1.0	0.099	ug/L							
Chromium	< 10	10	0.24	ug/L							
Copper	< 20	20	1.4	ug/L							
Lead	< 3.0	3.0	0.68	ug/L							
Nickel	< 5.0	5.0	0.28	ug/L							
Selenium	< 20	20	2.2	ug/L							
Silver	< 5.0	5.0	0.18	ug/L							
Zinc	< 20	20	4.4	ug/L							
LCS (B9I1407-BS1)					Prepared & Analyzed: 09/14/09						
Arsenic	415	10	2.0	ug/L	399		104	80-120			
Cadmium	429	1.0	0.099	ug/L	399		108	80-120			
Chromium	418	10	0.24	ug/L	399		105	80-120			
Copper	422	20	1.4	ug/L	399		106	80-120			
Lead	429	3.0	0.68	ug/L	399		108	80-120			
Nickel	423	5.0	0.28	ug/L	399		106	80-120			
Selenium	403	20	2.2	ug/L	399		101	80-120			
Silver	41.8	5.0	0.18	ug/L	39.9		105	80-120			
Zinc	422	20	4.4	ug/L	399		106	80-120			
LCS Dup (B9I1407-BSD1)					Prepared & Analyzed: 09/14/09						
Arsenic	415	10	2.0	ug/L	399		104	80-120	0.0292	20	
Cadmium	428	1.0	0.099	ug/L	399		107	80-120	0.280	20	
Chromium	416	10	0.24	ug/L	399		104	80-120	0.618	20	
Copper	418	20	1.4	ug/L	399		105	80-120	0.880	20	
Lead	427	3.0	0.68	ug/L	399		107	80-120	0.499	20	
Nickel	421	5.0	0.28	ug/L	399		105	80-120	0.612	20	
Selenium	406	20	2.2	ug/L	399		102	80-120	0.696	20	
Silver	41.1	5.0	0.18	ug/L	39.9		103	80-120	1.69	20	
Zinc	418	20	4.4	ug/L	399		105	80-120	0.962	20	
Matrix Spike (B9I1407-MS1)		**Source: 0903902-01**			Prepared & Analyzed: 09/14/09						
Arsenic	413	10	2.0	ug/L	399	<10	103	75-125			
Cadmium	413	1.0	0.099	ug/L	399	<1.0	104	75-125			
Chromium	418	10	0.24	ug/L	399	<10	105	75-125			
Copper	425	20	1.4	ug/L	399	<20	107	75-125			
Lead	415	3.0	0.68	ug/L	399	<3.0	104	75-125			
Nickel	414	5.0	0.28	ug/L	399	<5.0	103	75-125			
Selenium	394	20	2.2	ug/L	399	<20	97.9	75-125			
Silver	42.1	5.0	0.18	ug/L	39.9	<5.0	105	75-125			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1407 - EPA 200.7/3005A Digestion											
Matrix Spike (B9I1407-MS1)		**Source: 0903902-01**			Prepared & Analyzed: 09/14/09						
Zinc	394	20	4.4	ug/L	399	<20	98.9	75-125			
Matrix Spike Dup (B9I1407-MSD1)		**Source: 0903902-01**			Prepared & Analyzed: 09/14/09						
Arsenic	413	10	2.0	ug/L	399	<10	103	75-125	0.0354	20	
Cadmium	409	1.0	0.099	ug/L	399	<1.0	102	75-125	1.10	20	
Chromium	403	10	0.24	ug/L	399	<10	101	75-125	3.68	20	
Copper	417	20	1.4	ug/L	399	<20	104	75-125	2.06	20	
Lead	409	3.0	0.68	ug/L	399	<3.0	103	75-125	1.31	20	
Nickel	405	5.0	0.28	ug/L	399	<5.0	101	75-125	2.24	20	
Selenium	413	20	2.2	ug/L	399	<20	103	75-125	4.80	20	
Silver	41.1	5.0	0.18	ug/L	39.9	<5.0	102	75-125	2.30	20	
Zinc	398	20	4.4	ug/L	399	<20	99.7	75-125	0.878	20	
Batch B9I1412 - EPA 245.1/7470A Digestion											
Blank (B9I1412-BLK1)					Prepared: 09/14/09	Analyzed: 09/15/09					
Mercury	< 0.20	0.20	0.018	ug/L							
LCS (B9I1412-BS1)					Prepared: 09/14/09	Analyzed: 09/15/09					
Mercury	2.11	0.20	0.018	ug/L	2.00		106	80-120			
LCS Dup (B9I1412-BSD1)					Prepared: 09/14/09	Analyzed: 09/15/09					
Mercury	2.13	0.20	0.018	ug/L	2.00		106	80-120	0.943	20	
Matrix Spike (B9I1412-MS1)		**Source: 0903902-01**			Prepared: 09/14/09	Analyzed: 09/15/09					
Mercury	1.96	0.20	0.018	ug/L	2.00	<0.20	98.0	75-125			
Matrix Spike Dup (B9I1412-MSD1)		**Source: 0903902-01**			Prepared: 09/14/09	Analyzed: 09/15/09					
Mercury	2.08	0.20	0.018	ug/L	2.00	<0.20	104	75-125	5.94	20	

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4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2003 - EPA 200.8 Digestion											
Blank (B9I2003-BLK1)					Prepared: 09/20/09		Analyzed: 09/23/09				
Antimony	< 0.046	0.50	0.046	ug/L							
Beryllium	< 0.027	0.50	0.027	ug/L							
Thallium	< 0.0081	0.50	0.0081	ug/L							
LCS (B9I2003-BS1)					Prepared: 09/20/09		Analyzed: 09/24/09				
Antimony	23.1	0.50	0.046	ug/L	20.0		116	80-120			
Beryllium	22.4	0.50	0.027	ug/L	20.0		112	80-120			
Thallium	20.6	0.50	0.0081	ug/L	20.0		103	80-120			
LCS Dup (B9I2003-BSD1)					Prepared: 09/20/09		Analyzed: 09/23/09				
Antimony	22.1	0.50	0.046	ug/L	20.0		111	80-120	4.30	20	
Beryllium	21.9	0.50	0.027	ug/L	20.0		109	80-120	2.42	20	
Thallium	21.5	0.50	0.0081	ug/L	20.0		108	80-120	4.58	20	
Matrix Spike (B9I2003-MS1)		**Source: 0903921-02**			Prepared: 09/20/09		Analyzed: 09/23/09				
Antimony	15.7	0.50	0.046	ug/L	20.0	0.542	75.8	75-125			
Beryllium	4.78	0.50	0.027	ug/L	20.0	<0.50	23.9	75-125			M2
Thallium	21.7	0.50	0.0081	ug/L	20.0	<0.50	108	75-125			
Matrix Spike Dup (B9I2003-MSD1)		**Source: 0903921-02**			Prepared: 09/20/09		Analyzed: 09/23/09				
Antimony	19.0	0.50	0.046	ug/L	20.0	0.542	92.2	75-125	19.0	20	
Beryllium	4.96	0.50	0.027	ug/L	20.0	<0.50	24.8	75-125	3.76	20	M2
Thallium	21.7	0.50	0.0081	ug/L	20.0	<0.50	108	75-125	0.323	20	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2002 - EPA 3050B											
Blank (B9I2002-BLK1)					Prepared: 09/20/09		Analyzed: 09/21/09				
Antimony	< 0.50	0.50	0.0055	mg/kg wet							
Arsenic	< 0.50	0.50	0.10	mg/kg wet							
Beryllium	< 0.25	0.25	0.011	mg/kg wet							
Cadmium	< 0.25	0.25	0.025	mg/kg wet							
Chromium	< 0.50	0.50	0.012	mg/kg wet							
Copper	< 1.0	1.0	0.070	mg/kg wet							
Lead	< 1.0	1.0	0.034	mg/kg wet							
Nickel	< 0.50	0.50	0.014	mg/kg wet							
Selenium	< 1.0	1.0	0.11	mg/kg wet							
Silver	< 0.25	0.25	0.0090	mg/kg wet							
Thallium	< 2.0	2.0	0.13	mg/kg wet							
Zinc	< 1.0	1.0	0.22	mg/kg wet							
LCS (B9I2002-BS1)					Prepared: 09/20/09		Analyzed: 09/21/09				
Antimony	37.0	0.50	0.0055	mg/kg wet	39.9		92.8	80-120			
Arsenic	37.2	0.50	0.10	mg/kg wet	39.9		93.3	80-120			
Beryllium	3.78	0.25	0.011	mg/kg wet	3.99		94.8	80-120			
Cadmium	38.8	0.25	0.025	mg/kg wet	39.9		97.3	80-120			
Chromium	38.4	0.50	0.012	mg/kg wet	39.9		96.3	80-120			
Copper	37.5	1.0	0.070	mg/kg wet	39.9		94.0	80-120			
Lead	38.9	1.0	0.034	mg/kg wet	39.9		97.5	80-120			
Nickel	38.4	0.50	0.014	mg/kg wet	39.9		96.3	80-120			
Selenium	36.9	1.0	0.11	mg/kg wet	39.9		92.5	80-120			
Silver	3.68	0.25	0.0090	mg/kg wet	3.99		92.1	80-120			
Thallium	37.1	2.0	0.13	mg/kg wet	39.9		92.9	80-120			
Zinc	39.2	1.0	0.22	mg/kg wet	39.9		98.3	80-120			
LCS Dup (B9I2002-BSD1)					Prepared: 09/20/09		Analyzed: 09/21/09				
Antimony	37.7	0.50	0.0055	mg/kg wet	39.9		94.5	80-120	1.81	20	
Arsenic	37.8	0.50	0.10	mg/kg wet	39.9		94.8	80-120	1.66	20	
Beryllium	3.81	0.25	0.011	mg/kg wet	3.99		95.4	80-120	0.674	20	
Cadmium	39.5	0.25	0.025	mg/kg wet	39.9		99.0	80-120	1.77	20	
Chromium	39.0	0.50	0.012	mg/kg wet	39.9		97.8	80-120	1.63	20	
Copper	37.9	1.0	0.070	mg/kg wet	39.9		94.9	80-120	0.913	20	
Lead	39.6	1.0	0.034	mg/kg wet	39.9		99.4	80-120	1.89	20	
Nickel	38.9	0.50	0.014	mg/kg wet	39.9		97.5	80-120	1.23	20	
Selenium	37.2	1.0	0.11	mg/kg wet	39.9		93.3	80-120	0.792	20	
Silver	3.69	0.25	0.0090	mg/kg wet	3.99		92.4	80-120	0.301	20	
Thallium	38.3	2.0	0.13	mg/kg wet	39.9		95.9	80-120	3.19	20	
Zinc	38.7	1.0	0.22	mg/kg wet	39.9		97.0	80-120	1.33	20	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2002 - EPA 3050B											
Matrix Spike (B9I2002-MS1)		**Source: 0904018-04**			Prepared: 09/20/09		Analyzed: 09/21/09				
Antimony	36.3	0.58	0.0064	mg/kg dry	46.4	<0.58	78.2	75-125			
Arsenic	43.7	0.58	0.12	mg/kg dry	46.4	5.85	81.6	75-125			
Beryllium	3.89	0.29	0.013	mg/kg dry	4.64	<0.29	81.0	75-125			
Cadmium	38.6	0.29	0.029	mg/kg dry	46.4	<0.29	83.2	75-125			
Chromium	54.6	0.58	0.014	mg/kg dry	46.4	14.3	87.0	75-125			
Copper	51.3	1.2	0.081	mg/kg dry	46.4	11.4	86.0	75-125			
Lead	47.9	1.2	0.040	mg/kg dry	46.4	8.24	85.4	75-125			
Nickel	55.3	0.58	0.016	mg/kg dry	46.4	17.6	81.4	75-125			
Selenium	36.0	1.2	0.13	mg/kg dry	46.4	<1.2	77.5	75-125			
Silver	3.57	0.29	0.010	mg/kg dry	4.64	<0.29	76.9	75-125			
Thallium	37.3	2.3	0.15	mg/kg dry	46.4	<2.3	80.4	75-125			
Zinc	27.6	1.2	0.26	mg/kg dry	46.4	<1.2	59.6	75-125			M2
Matrix Spike Dup (B9I2002-MSD1)		**Source: 0904018-04**			Prepared: 09/20/09		Analyzed: 09/21/09				
Antimony	37.8	0.58	0.0064	mg/kg dry	46.4	<0.58	81.5	75-125	4.12	20	
Arsenic	44.7	0.58	0.12	mg/kg dry	46.4	5.85	83.7	75-125	2.18	20	
Beryllium	4.03	0.29	0.013	mg/kg dry	4.64	<0.29	84.1	75-125	3.63	20	
Cadmium	39.7	0.29	0.029	mg/kg dry	46.4	<0.29	85.5	75-125	2.78	20	
Chromium	56.8	0.58	0.014	mg/kg dry	46.4	14.3	91.5	75-125	3.82	20	
Copper	53.3	1.2	0.081	mg/kg dry	46.4	11.4	90.2	75-125	3.71	20	
Lead	48.3	1.2	0.040	mg/kg dry	46.4	8.24	86.4	75-125	1.03	20	
Nickel	57.5	0.58	0.016	mg/kg dry	46.4	17.6	86.1	75-125	3.93	20	
Selenium	37.3	1.2	0.13	mg/kg dry	46.4	<1.2	80.4	75-125	3.56	20	
Silver	3.70	0.29	0.010	mg/kg dry	4.64	<0.29	79.8	75-125	3.76	20	
Thallium	39.0	2.3	0.15	mg/kg dry	46.4	<2.3	84.1	75-125	4.41	20	
Zinc	24.1	1.2	0.26	mg/kg dry	46.4	<1.2	51.9	75-125	13.7	20	M2

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2115 - EPA 7471A											
Blank (B9I2115-BLK1)					Prepared: 09/21/09		Analyzed: 09/22/09				
Mercury	< 0.10	0.10	0.0018	mg/kg wet							
LCS (B9I2115-BS1)					Prepared: 09/21/09		Analyzed: 09/22/09				
Mercury	0.225	0.10	0.0018	mg/kg wet	0.200		112	80-120			
LCS Dup (B9I2115-BSD1)					Prepared: 09/21/09		Analyzed: 09/22/09				
Mercury	0.226	0.10	0.0018	mg/kg wet	0.200		113	80-120	0.443	20	
Matrix Spike (B9I2115-MS1)		**Source: 0904018-04**			Prepared: 09/21/09		Analyzed: 09/22/09				
Mercury	0.245	0.12	0.0021	mg/kg dry	0.233	<0.12	94.0	75-125			
Matrix Spike Dup (B9I2115-MSD1)		**Source: 0904018-04**			Prepared: 09/21/09		Analyzed: 09/22/09				
Mercury	0.269	0.12	0.0021	mg/kg dry	0.233	<0.12	104	75-125	9.05	20	

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4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

PERCENT SOLIDS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1410 - General Preparation											
Duplicate (B9I1410-DUP1)		**Source: 0903945-10**			Prepared: 09/14/09		Analyzed: 09/15/09				
% Solids	83.0			%		85.0			2.38	20	
Duplicate (B9I1410-DUP2)		**Source: 0903975-01**			Prepared: 09/14/09		Analyzed: 09/15/09				
% Solids	80.0			%		87.0			8.38	20	
Duplicate (B9I1410-DUP3)		**Source: 0904010-02**			Prepared: 09/14/09		Analyzed: 09/15/09				
% Solids	95.0			%		95.0			0.00	20	
Duplicate (B9I1410-DUP4)		**Source: 0904018-07**			Prepared: 09/14/09		Analyzed: 09/15/09				
% Solids	87.0			%		87.0			0.00	20	

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4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1503 - EPA 3510C (Sep Funnel)											
Blank (B9I1503-BLK1)					Prepared: 09/15/09 Analyzed: 09/16/09						
1,2,4-Trichlorobenzene	< 0.19	10	0.19	ug/L							
1,2-Dichlorobenzene	< 0.23	10	0.23	ug/L							
1,2-Diphenylhydrazine as Azobenzene	< 0.24	10	0.24	ug/L							
1,3-Dichlorobenzene	< 0.21	10	0.21	ug/L							
1,4-Dichlorobenzene	< 0.22	10	0.22	ug/L							
2,3,4,6-Tetrachlorophenol	< 0.61	10	0.61	ug/L							
2,4,5-Trichlorophenol	< 0.80	10	0.80	ug/L							
2,4,6-Trichlorophenol	< 0.48	10	0.48	ug/L							
2,4-Dichlorophenol	< 0.47	10	0.47	ug/L							
2,4-Dimethylphenol	< 1.6	10	1.6	ug/L							
2,4-Dinitrophenol	< 1.0	10	1.0	ug/L							
2,4-Dinitrotoluene	< 0.33	10	0.33	ug/L							
2,6-Dichlorophenol	< 0.48	10	0.48	ug/L							
2,6-Dinitrotoluene	< 0.36	10	0.36	ug/L							
2-Chloronaphthalene	< 0.28	10	0.28	ug/L							
2-Chlorophenol	< 0.45	10	0.45	ug/L							
2-Methylnaphthalene	< 0.66	10	0.66	ug/L							
2-Methylphenol	< 0.63	10	0.63	ug/L							
2-Nitroaniline	< 0.72	10	0.72	ug/L							
2-Nitrophenol	< 0.90	10	0.90	ug/L							
3,3´-Dichlorobenzidine	< 7.3	25	7.3	ug/L							
3-Nitroaniline	< 1.2	10	1.2	ug/L							
4,6-Dinitro-2-methylphenol	< 0.65	10	0.65	ug/L							
4-Bromophenyl phenyl ether	< 0.17	10	0.17	ug/L							
4-Chloro-3-methylphenol	< 0.55	10	0.55	ug/L							
4-Chloroaniline	< 2.3	10	2.3	ug/L							
4-Chlorophenyl phenyl ether	< 0.25	10	0.25	ug/L							
4-Methylphenol	< 0.79	10	0.79	ug/L							
4-Nitroaniline	< 0.59	10	0.59	ug/L							
4-Nitrophenol	< 1.2	10	1.2	ug/L							
Acenaphthene	< 0.36	10	0.36	ug/L							
Acenaphthylene	< 0.25	10	0.25	ug/L							
Aniline	< 2.2	10	2.2	ug/L							
Anthracene	< 0.37	10	0.37	ug/L							
Benzidine	< 18	100	18	ug/L							
Benzo (a) anthracene	< 0.37	10	0.37	ug/L							
Benzo (a) pyrene	< 0.29	10	0.29	ug/L							
Benzo (b) fluoranthene	< 0.22	10	0.22	ug/L							
Benzo (g,h,i) perylene	< 0.26	10	0.26	ug/L							

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1503 - EPA 3510C (Sep Funnel)											
Blank (B9I1503-BLK1)					Prepared: 09/15/09	Analyzed: 09/16/09					
Benzo (k) fluoranthene	< 0.31	10	0.31	ug/L							
Benzoic acid	< 1.2	10	1.2	ug/L							
Benzyl alcohol	< 0.54	10	0.54	ug/L							
Bis(2-chloroethoxy)methane	< 0.18	10	0.18	ug/L							
Bis(2-chloroethyl)ether	< 0.17	10	0.17	ug/L							
Bis(2-chloroisopropyl)ether	< 0.19	10	0.19	ug/L							
Bis(2-ethylhexyl)phthalate	< 0.43	10	0.43	ug/L							
Butyl benzyl phthalate	< 0.37	10	0.37	ug/L							
Carbazole	< 0.26	10	0.26	ug/L							
Chrysene	< 0.27	10	0.27	ug/L							
Dibenz (a,h) anthracene	< 0.23	10	0.23	ug/L							
Dibenzofuran	< 0.39	10	0.39	ug/L							
Diethyl phthalate	< 0.23	10	0.23	ug/L							
Dimethyl phthalate	< 0.24	10	0.24	ug/L							
Di-n-butyl phthalate	< 0.28	10	0.28	ug/L							
Di-n-octyl phthalate	< 0.38	10	0.38	ug/L							
Fluoranthene	< 0.39	10	0.39	ug/L							
Fluorene	< 0.40	10	0.40	ug/L							
Hexachlorobenzene	< 0.20	10	0.20	ug/L							
Hexachlorobutadiene	< 0.26	10	0.26	ug/L							
Hexachlorocyclopentadiene	< 0.31	10	0.31	ug/L							
Hexachloroethane	< 0.31	10	0.31	ug/L							
Indeno (1,2,3-cd) pyrene	< 0.31	10	0.31	ug/L							
Isophorone	< 0.23	10	0.23	ug/L							
Naphthalene	< 0.37	10	0.37	ug/L							
Nitrobenzene	< 0.39	10	0.39	ug/L							
N-Nitrosodimethylamine	< 0.95	10	0.95	ug/L							
N-Nitrosodi-n-propylamine	< 0.21	10	0.21	ug/L							
N-Nitrosodiphenylamine	< 0.23	10	0.23	ug/L							
Pentachlorophenol	< 0.59	10	0.59	ug/L							
Phenanthrene	< 0.39	10	0.39	ug/L							
Phenol	< 0.57	10	0.57	ug/L							
Pyrene	< 0.47	10	0.47	ug/L							
Surrogate: 2,4,6-Tribromophenol	*84.8*			*ug/L*	*100*		*84.8*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*62.8*			*ug/L*	*100*		*62.8*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*37.7*			*ug/L*	*100*		*37.7*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*67.9*			*ug/L*	*100*		*67.9*	*47.4-97.8*			
Surrogate: Phenol-d6	*35.2*			*ug/L*	*100*		*35.2*	*30-91.5*			
Surrogate: Terphenyl-d14	*73.7*			*ug/L*	*100*		*73.7*	*30-108*			

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4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1503 - EPA 3510C (Sep Funnel)											
LCS (B9I1503-BS1)					Prepared: 09/15/09		Analyzed: 09/16/09				
1,2,4-Trichlorobenzene	58.6	10	0.19	ug/L	100		58.6	48.2-88.3			
1,4-Dichlorobenzene	53.4	10	0.22	ug/L	100		53.4	42.8-82.2			
2,4-Dinitrotoluene	90.1	10	0.33	ug/L	100		90.1	64.6-98.9			
2-Chlorophenol	62.9	10	0.45	ug/L	100		62.9	56.5-88.1			
4-Chloro-3-methylphenol	75.0	10	0.55	ug/L	100		75.0	63.4-95.2			
4-Nitrophenol	60.6	10	1.2	ug/L	100		60.6	51.3-90.6			
Anthracene	84.4	10	0.37	ug/L	100		84.4	66.7-92.8			
Benzo (a) anthracene	91.4	10	0.37	ug/L	100		91.4	72.7-97.2			
Benzo (a) pyrene	86.3	10	0.29	ug/L	100		86.3	66.4-101			
Chrysene	90.9	10	0.27	ug/L	100		90.9	71.5-98.1			
Fluoranthene	83.5	10	0.39	ug/L	100		83.5	68.8-94			
Fluorene	80.1	10	0.40	ug/L	100		80.1	64.2-94.4			
N-Nitrosodi-n-propylamine	85.8	10	0.21	ug/L	100		85.8	63.6-92.8			
Pentachlorophenol	87.5	10	0.59	ug/L	100		87.5	60.2-101			
Phenanthrene	85.6	10	0.39	ug/L	100		85.6	68.1-94.8			
Phenol	43.1	10	0.57	ug/L	100		43.1	39.6-71			
Surrogate: 2,4,6-Tribromophenol	*87.9*			*ug/L*	*100*		*87.9*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*70.5*			*ug/L*	*100*		*70.5*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*49.7*			*ug/L*	*100*		*49.7*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*82.4*			*ug/L*	*100*		*82.4*	*47.4-97.8*			
Surrogate: Phenol-d6	*44.1*			*ug/L*	*100*		*44.1*	*30-91.5*			
Surrogate: Terphenyl-d14	*83.3*			*ug/L*	*100*		*83.3*	*30-108*			
LCS Dup (B9I1503-BSD1)					Prepared: 09/15/09		Analyzed: 09/16/09				
1,2,4-Trichlorobenzene	60.1	10	0.19	ug/L	100		60.1	48.2-88.3	2.60	20	
1,4-Dichlorobenzene	55.1	10	0.22	ug/L	100		55.1	42.8-82.2	3.10	20	
2,4-Dinitrotoluene	91.5	10	0.33	ug/L	100		91.5	64.6-98.9	1.51	20	
2-Chlorophenol	63.6	10	0.45	ug/L	100		63.6	56.5-88.1	1.07	20	
4-Chloro-3-methylphenol	77.9	10	0.55	ug/L	100		77.9	63.4-95.2	3.85	20	
4-Nitrophenol	61.0	10	1.2	ug/L	100		61.0	51.3-90.6	0.653	20	
Anthracene	86.3	10	0.37	ug/L	100		86.3	66.7-92.8	2.22	20	
Benzo (a) anthracene	93.9	10	0.37	ug/L	100		93.9	72.7-97.2	2.77	20	
Benzo (a) pyrene	88.6	10	0.29	ug/L	100		88.6	66.4-101	2.61	20	
Chrysene	93.0	10	0.27	ug/L	100		93.0	71.5-98.1	2.27	20	
Fluoranthene	85.6	10	0.39	ug/L	100		85.6	68.8-94	2.41	20	
Fluorene	81.1	10	0.40	ug/L	100		81.1	64.2-94.4	1.22	20	
N-Nitrosodi-n-propylamine	86.4	10	0.21	ug/L	100		86.4	63.6-92.8	0.697	20	
Pentachlorophenol	89.1	10	0.59	ug/L	100		89.1	60.2-101	1.80	20	
Phenanthrene	87.4	10	0.39	ug/L	100		87.4	68.1-94.8	2.15	20	
Phenol	41.6	10	0.57	ug/L	100		41.6	39.6-71	3.47	20	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1503 - EPA 3510C (Sep Funnel)											
LCS Dup (B9I1503-BSD1)					Prepared: 09/15/09		Analyzed: 09/16/09				
Surrogate: 2,4,6-Tribromophenol	*90.1*			*ug/L*	*100*		*90.1*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*69.6*			*ug/L*	*100*		*69.6*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*47.8*			*ug/L*	*100*		*47.8*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*82.3*			*ug/L*	*100*		*82.3*	*47.4-97.8*			
Surrogate: Phenol-d6	*42.3*			*ug/L*	*100*		*42.3*	*30-91.5*			
Surrogate: Terphenyl-d14	*85.4*			*ug/L*	*100*		*85.4*	*30-108*			
Matrix Spike (B9I1503-MS1)		**Source: 0904005-01**			Prepared: 09/15/09		Analyzed: 09/16/09				
1,2,4-Trichlorobenzene	69.3	10	0.19	ug/L	101	<10	69.0	43.8-87.4			
1,4-Dichlorobenzene	61.4	10	0.22	ug/L	101	<10	61.1	43.7-78.7			
2,4-Dinitrotoluene	89.5	10	0.33	ug/L	101	<10	89.1	52.8-100			
2-Chlorophenol	60.7	10	0.45	ug/L	101	<10	60.4	30.1-95			
4-Chloro-3-methylphenol	73.8	10	0.55	ug/L	101	<10	73.5	44.8-98.7			
4-Nitrophenol	60.1	10	1.2	ug/L	101	<10	59.8	32.5-99.6			
Anthracene	83.9	10	0.37	ug/L	101	<10	83.5	44.8-97.6			
Benzo (a) anthracene	88.6	10	0.37	ug/L	101	<10	88.2	30-115			
Benzo (a) pyrene	82.5	10	0.29	ug/L	101	<10	82.1	30-110			
Chrysene	87.3	10	0.27	ug/L	101	<10	86.9	30-115			
Fluoranthene	82.6	10	0.39	ug/L	101	<10	82.1	37.4-103			
Fluorene	80.7	10	0.40	ug/L	101	<10	80.3	49.6-92.1			
N-Nitrosodi-n-propylamine	83.2	10	0.21	ug/L	101	<10	82.8	44.9-100			
Pentachlorophenol	86.5	10	0.59	ug/L	101	<10	86.0	31.2-123			
Phenanthrene	84.8	10	0.39	ug/L	101	<10	84.4	47-99.1			
Phenol	42.5	10	0.57	ug/L	101	<10	42.3	30-79.5			
Surrogate: 2,4,6-Tribromophenol	*85.1*			*ug/L*	*101*		*84.6*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*72.9*			*ug/L*	*101*		*72.5*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*47.5*			*ug/L*	*101*		*47.2*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*80.6*			*ug/L*	*101*		*80.2*	*47.4-97.8*			
Surrogate: Phenol-d6	*43.1*			*ug/L*	*101*		*42.8*	*30-91.5*			
Surrogate: Terphenyl-d14	*74.1*			*ug/L*	*101*		*73.8*	*30-108*			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1703 - EPA 3545 ASE Extraction											
Blank (B9I1703-BLK1)					Prepared & Analyzed: 09/17/09						
1,2,4-Trichlorobenzene	< 0.027	0.33	0.027	mg/kg wet							
1,2-Dichlorobenzene	< 0.025	0.33	0.025	mg/kg wet							
1,2-Diphenylhydrazine as Azobenzene	< 0.020	0.33	0.020	mg/kg wet							
1,3-Dichlorobenzene	< 0.023	0.33	0.023	mg/kg wet							
1,4-Dichlorobenzene	< 0.024	0.33	0.024	mg/kg wet							
2,3,4,6-Tetrachlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2,4,5-Trichlorophenol	< 0.024	0.67	0.024	mg/kg wet							
2,4,6-Trichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dimethylphenol	< 0.090	0.67	0.090	mg/kg wet							
2,4-Dinitrophenol	< 0.058	0.67	0.058	mg/kg wet							
2,4-Dinitrotoluene	< 0.021	0.33	0.021	mg/kg wet							
2,6-Dichlorophenol	< 0.043	0.67	0.043	mg/kg wet							
2,6-Dinitrotoluene	< 0.019	0.33	0.019	mg/kg wet							
2-Chloronaphthalene	< 0.019	0.33	0.019	mg/kg wet							
2-Chlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2-Methylnaphthalene	< 0.028	0.33	0.028	mg/kg wet							
2-Methylphenol	< 0.035	0.67	0.035	mg/kg wet							
2-Nitroaniline	< 0.020	0.33	0.020	mg/kg wet							
2-Nitrophenol	< 0.036	0.67	0.036	mg/kg wet							
3,3´-Dichlorobenzidine	< 0.39	1.6	0.39	mg/kg wet							
3-Nitroaniline	< 0.033	0.33	0.033	mg/kg wet							
4,6-Dinitro-2-methylphenol	< 0.074	0.67	0.074	mg/kg wet							
4-Bromophenyl phenyl ether	< 0.017	0.33	0.017	mg/kg wet							
4-Chloro-3-methylphenol	< 0.040	0.67	0.040	mg/kg wet							
4-Chloroaniline	< 0.11	0.67	0.11	mg/kg wet							
4-Chlorophenyl phenyl ether	< 0.023	0.33	0.023	mg/kg wet							
4-Methylphenol	< 0.027	0.67	0.027	mg/kg wet							
4-Nitroaniline	< 0.023	0.33	0.023	mg/kg wet							
4-Nitrophenol	< 0.099	0.67	0.099	mg/kg wet							
Acenaphthene	< 0.028	0.33	0.028	mg/kg wet							
Acenaphthylene	< 0.023	0.33	0.023	mg/kg wet							
Aniline	< 0.090	0.67	0.090	mg/kg wet							
Anthracene	< 0.025	0.33	0.025	mg/kg wet							
Benzidine	< 0.72	2.5	0.72	mg/kg wet							
Benzo (a) anthracene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (a) pyrene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (b) fluoranthene	< 0.034	0.33	0.034	mg/kg wet							
Benzo (g,h,i) perylene	< 0.030	0.33	0.030	mg/kg wet							

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1703 - EPA 3545 ASE Extraction											
Blank (B9I1703-BLK1)					Prepared & Analyzed: 09/17/09						
Benzo (k) fluoranthene	< 0.031	0.33	0.031	mg/kg wet							
Benzoic acid	< 0.058	0.33	0.058	mg/kg wet							
Benzyl alcohol	< 0.12	0.67	0.12	mg/kg wet							
Bis(2-chloroethoxy)methane	< 0.021	0.33	0.021	mg/kg wet							
Bis(2-chloroethyl)ether	< 0.024	0.33	0.024	mg/kg wet							
Bis(2-chloroisopropyl)ether	< 0.022	0.33	0.022	mg/kg wet							
Bis(2-ethylhexyl)phthalate	< 0.020	0.33	0.020	mg/kg wet							
Butyl benzyl phthalate	< 0.021	0.33	0.021	mg/kg wet							
Carbazole	< 0.022	0.33	0.022	mg/kg wet							
Chrysene	< 0.033	0.33	0.033	mg/kg wet							
Dibenz (a,h) anthracene	< 0.034	0.33	0.034	mg/kg wet							
Dibenzofuran	< 0.019	0.33	0.019	mg/kg wet							
Diethyl phthalate	< 0.015	0.33	0.015	mg/kg wet							
Dimethyl phthalate	< 0.018	0.33	0.018	mg/kg wet							
Di-n-butyl phthalate	< 0.037	0.33	0.037	mg/kg wet							
Di-n-octyl phthalate	< 0.025	0.33	0.025	mg/kg wet							
Fluoranthene	< 0.024	0.33	0.024	mg/kg wet							
Fluorene	< 0.018	0.33	0.018	mg/kg wet							
Hexachlorobenzene	< 0.016	0.33	0.016	mg/kg wet							
Hexachlorobutadiene	< 0.033	0.33	0.033	mg/kg wet							
Hexachlorocyclopentadiene	< 0.041	0.33	0.041	mg/kg wet							
Hexachloroethane	< 0.028	0.33	0.028	mg/kg wet							
Indeno (1,2,3-cd) pyrene	< 0.032	0.33	0.032	mg/kg wet							
Isophorone	< 0.017	0.33	0.017	mg/kg wet							
Naphthalene	< 0.029	0.33	0.029	mg/kg wet							
Nitrobenzene	< 0.030	0.33	0.030	mg/kg wet							
N-Nitrosodimethylamine	< 0.032	0.33	0.032	mg/kg wet							
N-Nitrosodi-n-propylamine	< 0.025	0.33	0.025	mg/kg wet							
N-Nitrosodiphenylamine	< 0.018	0.33	0.018	mg/kg wet							
Pentachlorophenol	< 0.096	0.67	0.096	mg/kg wet							
Phenanthrene	< 0.019	0.33	0.019	mg/kg wet							
Phenol	< 0.057	0.67	0.057	mg/kg wet							
Pyrene	< 0.023	0.33	0.023	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	*4.34*			*mg/kg wet*	*6.67*		*65.2*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*3.67*			*mg/kg wet*	*6.67*		*55.0*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*3.94*			*mg/kg wet*	*6.67*		*59.1*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*3.98*			*mg/kg wet*	*6.67*		*59.7*	*49.1-86.9*			
Surrogate: Phenol-d6	*4.24*			*mg/kg wet*	*6.67*		*63.6*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*4.12*			*mg/kg wet*	*6.67*		*61.8*	*43.6-112*			

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1703 - EPA 3545 ASE Extraction											
LCS (B9I1703-BS1)					Prepared & Analyzed: 09/17/09						
1,2,4-Trichlorobenzene	4.70	0.33	0.027	mg/kg wet	6.67		70.5	50.7-82.1			
1,4-Dichlorobenzene	4.18	0.33	0.024	mg/kg wet	6.67		62.7	44-77			
2,4-Dinitrotoluene	4.98	0.33	0.021	mg/kg wet	6.67		74.7	56.7-81.7			
2-Chlorophenol	4.78	0.67	0.038	mg/kg wet	6.67		71.7	52.3-88.2			
4-Chloro-3-methylphenol	4.87	0.67	0.040	mg/kg wet	6.67		73.0	53.4-87			
4-Nitrophenol	5.26	0.67	0.099	mg/kg wet	6.67		78.9	55.7-87.1			
Anthracene	5.24	0.33	0.025	mg/kg wet	6.67		78.6	65.3-92			
Benzo (a) anthracene	5.59	0.33	0.027	mg/kg wet	6.67		83.8	69-95.3			
Benzo (a) pyrene	5.55	0.33	0.027	mg/kg wet	6.67		83.3	68.5-98.2			
Chrysene	5.48	0.33	0.033	mg/kg wet	6.67		82.2	68.6-94.2			
Fluoranthene	5.13	0.33	0.024	mg/kg wet	6.67		77.0	64.3-94.6			
Fluorene	4.90	0.33	0.018	mg/kg wet	6.67		73.5	61.9-89.4			
N-Nitrosodi-n-propylamine	5.11	0.33	0.025	mg/kg wet	6.67		76.7	55.5-91.1			
Pentachlorophenol	4.26	0.67	0.096	mg/kg wet	6.67		64.0	54.7-74.6			
Phenanthrene	5.10	0.33	0.019	mg/kg wet	6.67		76.5	64.3-90.9			
Phenol	4.71	0.67	0.057	mg/kg wet	6.67		70.7	49.7-85.4			
Surrogate: 2,4,6-Tribromophenol	*5.54*			*mg/kg wet*	*6.67*		*83.0*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*4.57*			*mg/kg wet*	*6.67*		*68.5*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*5.01*			*mg/kg wet*	*6.67*		*75.2*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*5.04*			*mg/kg wet*	*6.67*		*75.6*	*49.1-86.9*			
Surrogate: Phenol-d6	*5.36*			*mg/kg wet*	*6.67*		*80.5*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.20*			*mg/kg wet*	*6.67*		*78.0*	*43.6-112*			
Matrix Spike (B9I1703-MS1)		**Source: 0904018-04**			Prepared & Analyzed: 09/17/09						
1,2,4-Trichlorobenzene	5.35	0.38	0.031	mg/kg dry	7.75	<0.38	69.0	51-77.5			
1,4-Dichlorobenzene	4.64	0.38	0.028	mg/kg dry	7.75	<0.38	59.8	41.7-73.4			
2,4-Dinitrotoluene	5.60	0.38	0.024	mg/kg dry	7.75	<0.38	72.3	50-84.8			
2-Chlorophenol	5.45	0.78	0.044	mg/kg dry	7.75	<0.78	70.3	47.8-90.8			
4-Chloro-3-methylphenol	5.63	0.78	0.047	mg/kg dry	7.75	<0.78	72.6	48.4-95.1			
4-Nitrophenol	6.12	0.78	0.12	mg/kg dry	7.75	<0.78	78.9	44-105			
Anthracene	5.99	0.38	0.029	mg/kg dry	7.75	<0.38	77.2	60.2-97.3			
Benzo (a) anthracene	6.33	0.38	0.031	mg/kg dry	7.75	<0.38	81.6	59.8-102			
Benzo (a) pyrene	6.33	0.38	0.031	mg/kg dry	7.75	<0.38	81.6	57.2-105			
Chrysene	6.22	0.38	0.038	mg/kg dry	7.75	<0.38	80.3	59.2-102			
Fluoranthene	5.84	0.38	0.028	mg/kg dry	7.75	<0.38	75.4	50.4-108			
Fluorene	5.73	0.38	0.021	mg/kg dry	7.75	<0.38	73.9	57.8-94.4			
N-Nitrosodi-n-propylamine	5.77	0.38	0.029	mg/kg dry	7.75	<0.38	74.5	46.2-96.2			
Pentachlorophenol	5.30	0.78	0.11	mg/kg dry	7.75	<0.78	68.4	53.6-80.4			
Phenanthrene	5.90	0.38	0.022	mg/kg dry	7.75	<0.38	76.1	58.4-97.5			
Phenol	5.39	0.78	0.066	mg/kg dry	7.75	<0.78	69.5	44-88.5			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1703 - EPA 3545 ASE Extraction											
Matrix Spike (B9I1703-MS1)		**Source: 0904018-04**			Prepared & Analyzed: 09/17/09						
Surrogate: 2,4,6-Tribromophenol	*6.36*			*mg/kg dry*	*7.75*		*82.0*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*5.25*			*mg/kg dry*	*7.75*		*67.8*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*5.65*			*mg/kg dry*	*7.75*		*72.9*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*5.70*			*mg/kg dry*	*7.75*		*73.5*	*49.1-86.9*			
Surrogate: Phenol-d6	*6.02*			*mg/kg dry*	*7.75*		*77.7*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.71*			*mg/kg dry*	*7.75*		*73.6*	*43.6-112*			
Matrix Spike Dup (B9I1703-MSD1)		**Source: 0904018-04**			Prepared & Analyzed: 09/17/09						
1,2,4-Trichlorobenzene	5.15	0.38	0.031	mg/kg dry	7.75	<0.38	66.5	51-77.5	3.73	15.7	
1,4-Dichlorobenzene	4.39	0.38	0.028	mg/kg dry	7.75	<0.38	56.7	41.7-73.4	5.40	14.7	
2,4-Dinitrotoluene	5.67	0.38	0.024	mg/kg dry	7.75	<0.38	73.1	50-84.8	1.16	20.5	
2-Chlorophenol	5.29	0.78	0.044	mg/kg dry	7.75	<0.78	68.3	47.8-90.8	2.97	19.8	
4-Chloro-3-methylphenol	5.52	0.78	0.047	mg/kg dry	7.75	<0.78	71.2	48.4-95.1	1.99	18.7	
4-Nitrophenol	6.22	0.78	0.12	mg/kg dry	7.75	<0.78	80.2	44-105	1.60	30.9	
Anthracene	6.07	0.38	0.029	mg/kg dry	7.75	<0.38	78.2	60.2-97.3	1.29	15.1	
Benzo (a) anthracene	6.37	0.38	0.031	mg/kg dry	7.75	<0.38	82.2	59.8-102	0.715	19.6	
Benzo (a) pyrene	6.39	0.38	0.031	mg/kg dry	7.75	<0.38	82.5	57.2-105	1.01	19.4	
Chrysene	6.27	0.38	0.038	mg/kg dry	7.75	<0.38	80.9	59.2-102	0.811	19.6	
Fluoranthene	5.92	0.38	0.028	mg/kg dry	7.75	<0.38	76.3	50.4-108	1.27	21	
Fluorene	5.66	0.38	0.021	mg/kg dry	7.75	<0.38	73.0	57.8-94.4	1.29	15.8	
N-Nitrosodi-n-propylamine	5.60	0.38	0.029	mg/kg dry	7.75	<0.38	72.3	46.2-96.2	2.97	17.1	
Pentachlorophenol	5.43	0.78	0.11	mg/kg dry	7.75	<0.78	70.1	53.6-80.4	2.42	22.4	
Phenanthrene	5.94	0.38	0.022	mg/kg dry	7.75	<0.38	76.7	58.4-97.5	0.674	14.3	
Phenol	5.27	0.78	0.066	mg/kg dry	7.75	<0.78	67.9	44-88.5	2.34	21.5	
Surrogate: 2,4,6-Tribromophenol	*6.40*			*mg/kg dry*	*7.75*		*82.5*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*5.11*			*mg/kg dry*	*7.75*		*66.0*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*5.42*			*mg/kg dry*	*7.75*		*69.9*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*5.45*			*mg/kg dry*	*7.75*		*70.3*	*49.1-86.9*			
Surrogate: Phenol-d6	*5.85*			*mg/kg dry*	*7.75*		*75.5*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.85*			*mg/kg dry*	*7.75*		*75.4*	*43.6-112*			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1714 - EPA 5035 Soil (Purge and Trap)											
Blank (B9I1714-BLK1)					Prepared & Analyzed: 09/17/09						
1,1,1,2-Tetrachloroethane	< 0.026	0.25	0.026	mg/kg wet							
1,1,1-Trichloroethane	< 0.033	0.25	0.033	mg/kg wet							
1,1,2,2-Tetrachloroethane	< 0.025	0.25	0.025	mg/kg wet							
1,1,2-Trichloroethane	< 0.037	0.25	0.037	mg/kg wet							
1,1,2-Trichlorotrifluoroethane	< 0.065	0.25	0.065	mg/kg wet							
1,1-Dichloroethane	< 0.024	0.25	0.024	mg/kg wet							
1,1-Dichloroethene	< 0.025	0.25	0.025	mg/kg wet							
1,1-Dichloropropene	< 0.027	0.25	0.027	mg/kg wet							
1,2,3-Trichlorobenzene	< 0.066	0.50	0.066	mg/kg wet							
1,2,3-Trichloropropane	< 0.053	0.25	0.053	mg/kg wet							
1,2,4-Trichlorobenzene	< 0.064	0.50	0.064	mg/kg wet							
1,2,4-Trimethylbenzene	< 0.020	0.25	0.020	mg/kg wet							
1,2-Dibromo-3-chloropropane	< 0.057	0.50	0.057	mg/kg wet							
1,2-Dibromoethane (EDB)	< 0.038	0.25	0.038	mg/kg wet							
1,2-Dichlorobenzene	< 0.027	0.25	0.027	mg/kg wet							
1,2-Dichloroethane	< 0.025	0.25	0.025	mg/kg wet							
1,2-Dichloropropane	< 0.028	0.25	0.028	mg/kg wet							
1,3,5-Trimethylbenzene	< 0.015	0.25	0.015	mg/kg wet							
1,3-Dichlorobenzene	< 0.028	0.25	0.028	mg/kg wet							
1,3-Dichloropropane	< 0.017	0.25	0.017	mg/kg wet							
1,4-Dichlorobenzene	< 0.018	0.25	0.018	mg/kg wet							
2,2-Dichloropropane	< 0.068	0.50	0.068	mg/kg wet							
2-Butanone	< 0.12	2.0	0.12	mg/kg wet							
2-Chlorotoluene	< 0.018	0.25	0.018	mg/kg wet							
4-Chlorotoluene	< 0.029	0.25	0.029	mg/kg wet							
Acetone	< 0.32	2.0	0.32	mg/kg wet							
Allyl chloride	< 0.067	0.50	0.067	mg/kg wet							
Benzene	< 0.015	0.25	0.015	mg/kg wet							
Bromobenzene	< 0.019	0.25	0.019	mg/kg wet							
Bromochloromethane	< 0.025	0.25	0.025	mg/kg wet							
Bromodichloromethane	< 0.035	0.25	0.035	mg/kg wet							
Bromoform	< 0.080	0.50	0.080	mg/kg wet							
Bromomethane	< 0.14	0.50	0.14	mg/kg wet							
Carbon tetrachloride	< 0.027	0.25	0.027	mg/kg wet							
Chlorobenzene	< 0.025	0.25	0.025	mg/kg wet							
Chloroethane	< 0.073	0.25	0.073	mg/kg wet							
Chloroform	< 0.042	0.25	0.042	mg/kg wet							
Chloromethane	< 0.041	0.25	0.041	mg/kg wet							
cis-1,2-Dichloroethene	< 0.046	0.25	0.046	mg/kg wet							

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1714 - EPA 5035 Soil (Purge and Trap)											
Blank (B9I1714-BLK1)					Prepared & Analyzed: 09/17/09						
cis-1,3-Dichloropropene	< 0.023	0.25	0.023	mg/kg wet							
Dibromochloromethane	< 0.032	0.25	0.032	mg/kg wet							
Dibromomethane	< 0.046	0.25	0.046	mg/kg wet							
Dichlorodifluoromethane	< 0.082	0.50	0.082	mg/kg wet							
Dichlorofluoromethane	< 0.044	0.25	0.044	mg/kg wet							
Ethyl ether	< 0.048	0.50	0.048	mg/kg wet							
Ethylbenzene	< 0.022	0.25	0.022	mg/kg wet							
Hexachlorobutadiene	< 0.13	1.0	0.13	mg/kg wet							
Isopropylbenzene	< 0.023	0.25	0.023	mg/kg wet							
m,p-Xylene	< 0.088	0.50	0.088	mg/kg wet							
Methyl isobutyl ketone	< 0.092	0.50	0.092	mg/kg wet							
Methyl tert-butyl ether	< 0.017	0.25	0.017	mg/kg wet							
Methylene chloride	< 0.17	1.0	0.17	mg/kg wet							
Naphthalene	< 0.065	0.50	0.065	mg/kg wet							
n-Butylbenzene	< 0.032	0.25	0.032	mg/kg wet							
n-Propylbenzene	< 0.014	0.25	0.014	mg/kg wet							
o-Xylene	< 0.031	0.25	0.031	mg/kg wet							
p-Isopropyltoluene	< 0.030	0.25	0.030	mg/kg wet							
sec-Butylbenzene	< 0.010	0.25	0.010	mg/kg wet							
Styrene	< 0.040	0.25	0.040	mg/kg wet							
tert-Butylbenzene	< 0.018	0.25	0.018	mg/kg wet							
Tetrachloroethene	< 0.035	0.25	0.035	mg/kg wet							
Tetrahydrofuran	< 0.10	2.0	0.10	mg/kg wet							
Toluene	< 0.028	0.25	0.028	mg/kg wet							
trans-1,2-Dichloroethene	< 0.022	0.25	0.022	mg/kg wet							
trans-1,3-Dichloropropene	< 0.035	0.25	0.035	mg/kg wet							
Trichloroethene	< 0.040	0.25	0.040	mg/kg wet							
Trichlorofluoromethane	< 0.032	0.25	0.032	mg/kg wet							
Vinyl chloride	< 0.023	0.25	0.023	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*49.2*			*ug/L*	*50.0*		*98.3*	*80-120*			
Surrogate: Dibromofluoromethane	*48.7*			*ug/L*	*50.0*		*97.4*	*80-120*			
Surrogate: Toluene-d8	*47.1*			*ug/L*	*50.0*		*94.2*	*80-120*			
LCS (B9I1714-BS1)					Prepared & Analyzed: 09/17/09						
1,1,2,2-Tetrachloroethane	50.2			ug/L	50.0		100	80-120			
1,1-Dichloroethane	47.2			ug/L	50.0		94.5	78.8-120			
1,1-Dichloroethene	46.4			ug/L	50.0		92.8	75-125			
1,3,5-Trimethylbenzene	53.0			ug/L	50.0		106	80-120			
1,4-Dichlorobenzene	50.6			ug/L	50.0		101	75-125			
2-Chlorotoluene	52.8			ug/L	50.0		106	80-120			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1714 - EPA 5035 Soil (Purge and Trap)											
LCS (B9I1714-BS1)					Prepared & Analyzed: 09/17/09						
Benzene	45.1			ug/L	50.0		90.2	80-120			
Bromoform	54.4			ug/L	50.0		109	77.1-125			
Chlorobenzene	50.9			ug/L	50.0		102	80-120			
Chloroform	47.8			ug/L	50.0		95.5	77.3-120			
Ethylbenzene	52.1			ug/L	50.0		104	80-120			
n-Butylbenzene	48.4			ug/L	50.0		96.7	70.1-125			
n-Propylbenzene	52.5			ug/L	50.0		105	75-120			
Toluene	45.5			ug/L	50.0		90.9	80-120			
Trichloroethene	49.7			ug/L	50.0		99.3	80-120			
Vinyl chloride	48.8			ug/L	50.0		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	*53.0*			*ug/L*	*50.0*		*106*	*80-120*			
Surrogate: Dibromofluoromethane	*48.5*			*ug/L*	*50.0*		*96.9*	*80-120*			
Surrogate: Toluene-d8	*48.2*			*ug/L*	*50.0*		*96.4*	*80-120*			
Matrix Spike (B9I1714-MS1)		**Source: 0904018-04**			Prepared & Analyzed: 09/17/09						
1,1,2,2-Tetrachloroethane	51.4			ug/L	50.0	<	103	80-120			
1,1-Dichloroethane	46.4			ug/L	50.0	<	92.8	77.5-120			
1,1-Dichloroethene	45.2			ug/L	50.0	<	90.5	76.1-125			
1,3,5-Trimethylbenzene	53.8			ug/L	50.0	<	108	80-120			
1,4-Dichlorobenzene	50.2			ug/L	50.0	<	100	75-125			
2-Chlorotoluene	52.9			ug/L	50.0	<	106	76.9-120			
Benzene	44.6			ug/L	50.0	<	89.3	80-120			
Bromoform	54.2			ug/L	50.0	<	108	80-125			
Chlorobenzene	51.2			ug/L	50.0	<	102	80-120			
Chloroform	46.9			ug/L	50.0	<	93.8	80-120			
Ethylbenzene	51.5			ug/L	50.0	<	103	80-120			
n-Butylbenzene	50.4			ug/L	50.0	<	101	74.7-125			
n-Propylbenzene	53.3			ug/L	50.0	<	107	75-120			
Toluene	45.0			ug/L	50.0	<	90.0	80-120			
Trichloroethene	47.7			ug/L	50.0	<	95.5	80-120			
Vinyl chloride	44.8			ug/L	50.0	<	89.6	70-125			
Surrogate: 4-Bromofluorobenzene	*50.4*			*ug/L*	*50.0*		*101*	*80-120*			
Surrogate: Dibromofluoromethane	*47.6*			*ug/L*	*50.0*		*95.2*	*80-120*			
Surrogate: Toluene-d8	*46.9*			*ug/L*	*50.0*		*93.9*	*80-120*			
Matrix Spike Dup (B9I1714-MSD1)		**Source: 0904018-04**			Prepared & Analyzed: 09/17/09						
1,1,2,2-Tetrachloroethane	51.9			ug/L	50.0	<	104	80-120	1.14	20	
1,1-Dichloroethane	47.5			ug/L	50.0	<	95.1	77.5-120	2.45	20	
1,1-Dichloroethene	47.8			ug/L	50.0	<	95.6	76.1-125	5.54	20	
1,3,5-Trimethylbenzene	54.9			ug/L	50.0	<	110	80-120	1.99	20	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1714 - EPA 5035 Soil (Purge and Trap)											
Matrix Spike Dup (B9I1714-MSD1)		**Source: 0904018-04**			Prepared & Analyzed: 09/17/09						
1,4-Dichlorobenzene	52.3			ug/L	50.0	<	105	75-125	4.12	20	
2-Chlorotoluene	55.1			ug/L	50.0	<	110	76.9-120	4.11	20	
Benzene	45.8			ug/L	50.0	<	91.7	80-120	2.62	20	
Bromoform	54.8			ug/L	50.0	<	110	80-125	1.00	20	
Chlorobenzene	52.8			ug/L	50.0	<	106	80-120	3.14	20	
Chloroform	47.8			ug/L	50.0	<	95.7	80-120	1.99	20	
Ethylbenzene	53.8			ug/L	50.0	<	108	80-120	4.35	20	
n-Butylbenzene	53.1			ug/L	50.0	<	106	74.7-125	5.30	20	
n-Propylbenzene	55.3			ug/L	50.0	<	111	75-120	3.60	20	
Toluene	46.2			ug/L	50.0	<	92.5	80-120	2.71	20	
Trichloroethene	50.5			ug/L	50.0	<	101	80-120	5.62	20	
Vinyl chloride	46.1			ug/L	50.0	<	92.2	70-125	2.86	20	
Surrogate: 4-Bromofluorobenzene	*49.4*			*ug/L*	*50.0*		*98.8*	*80-120*			
Surrogate: Dibromofluoromethane	*48.3*			*ug/L*	*50.0*		*96.6*	*80-120*			
Surrogate: Toluene-d8	*47.2*			*ug/L*	*50.0*		*94.5*	*80-120*			
Batch B9I1810 - EPA 5030 Water (Purge and Trap)											
Blank (B9I1810-BLK1)					Prepared & Analyzed: 09/18/09						
1,1,1,2-Tetrachloroethane	< 0.28	1.0	0.28	ug/L							
1,1,1-Trichloroethane	< 0.17	1.0	0.17	ug/L							
1,1,2,2-Tetrachloroethane	< 0.13	1.0	0.13	ug/L							
1,1,2-Trichloroethane	< 0.19	1.0	0.19	ug/L							
1,1,2-Trichlorotrifluoroethane	< 0.28	1.0	0.28	ug/L							
1,1-Dichloroethane	< 0.11	1.0	0.11	ug/L							
1,1-Dichloroethene	< 0.12	1.0	0.12	ug/L							
1,1-Dichloropropene	< 0.15	1.0	0.15	ug/L							
1,2,3-Trichlorobenzene	< 0.47	5.0	0.47	ug/L							
1,2,3-Trichloropropane	< 0.24	2.5	0.24	ug/L							
1,2,4-Trichlorobenzene	< 0.32	5.0	0.32	ug/L							
1,2,4-Trimethylbenzene	< 0.17	1.0	0.17	ug/L							
1,2-Dibromo-3-chloropropane	< 0.60	5.0	0.60	ug/L							
1,2-Dibromoethane (EDB)	< 0.37	2.5	0.37	ug/L							
1,2-Dichlorobenzene	< 0.16	1.0	0.16	ug/L							
1,2-Dichloroethane	< 0.18	1.0	0.18	ug/L							
1,2-Dichloropropane	< 0.21	1.0	0.21	ug/L							
1,3,5-Trimethylbenzene	< 0.18	1.0	0.18	ug/L							
1,3-Dichlorobenzene	< 0.21	1.0	0.21	ug/L							
1,3-Dichloropropane	< 0.15	1.0	0.15	ug/L							
1,4-Dichlorobenzene	< 0.17	1.0	0.17	ug/L							
2,2-Dichloropropane	< 0.58	5.0	0.58	ug/L							

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1810 - EPA 5030 Water (Purge and Trap)											
Blank (B9I1810-BLK1)					Prepared & Analyzed: 09/18/09						
2-Butanone	< 0.67	20	0.67	ug/L							
2-Chlorotoluene	< 0.17	1.0	0.17	ug/L							
4-Chlorotoluene	< 0.14	1.0	0.14	ug/L							
Acetone	< 2.8	20	2.8	ug/L							
Allyl chloride	< 0.76	5.0	0.76	ug/L							
Benzene	< 0.093	1.0	0.093	ug/L							
Bromobenzene	< 0.17	1.0	0.17	ug/L							
Bromochloromethane	< 0.21	1.0	0.21	ug/L							
Bromodichloromethane	< 0.22	1.0	0.22	ug/L							
Bromoform	< 0.50	5.0	0.50	ug/L							
Bromomethane	< 0.95	5.0	0.95	ug/L							
Carbon tetrachloride	< 0.16	1.0	0.16	ug/L							
Chlorobenzene	< 0.15	1.0	0.15	ug/L							
Chloroethane	< 0.46	2.5	0.46	ug/L							
Chloroform	< 0.19	1.0	0.19	ug/L							
Chloromethane	< 0.37	2.5	0.37	ug/L							
cis-1,2-Dichloroethene	< 0.19	1.0	0.19	ug/L							
cis-1,3-Dichloropropene	< 0.16	1.0	0.16	ug/L							
Dibromochloromethane	< 0.50	2.5	0.50	ug/L							
Dibromomethane	< 0.30	2.5	0.30	ug/L							
Dichlorodifluoromethane	< 0.58	5.0	0.58	ug/L							
Dichlorofluoromethane	< 0.31	1.0	0.31	ug/L							
Ethyl ether	< 0.53	5.0	0.53	ug/L							
Ethylbenzene	< 0.21	1.0	0.21	ug/L							
Hexachlorobutadiene	< 0.76	10	0.76	ug/L							
Isopropylbenzene	< 0.17	1.0	0.17	ug/L							
m,p-Xylene	< 0.42	2.0	0.42	ug/L							
Methyl isobutyl ketone	< 1.1	5.0	1.1	ug/L							
Methyl tert-butyl ether	< 0.13	1.0	0.13	ug/L							
Methylene chloride	< 0.65	5.0	0.65	ug/L							
Naphthalene	< 0.40	5.0	0.40	ug/L							
n-Butylbenzene	< 0.32	2.5	0.32	ug/L							
n-Propylbenzene	< 0.13	1.0	0.13	ug/L							
o-Xylene	< 0.18	1.0	0.18	ug/L							
p-Isopropyltoluene	< 0.30	2.5	0.30	ug/L							
sec-Butylbenzene	< 0.22	1.0	0.22	ug/L							
Styrene	< 0.13	1.0	0.13	ug/L							
tert-Butylbenzene	< 0.19	1.0	0.19	ug/L							
Tetrachloroethene	< 0.20	1.0	0.20	ug/L							

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88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1810 - EPA 5030 Water (Purge and Trap)											
Blank (B9I1810-BLK1)					Prepared & Analyzed: 09/18/09						
Tetrahydrofuran	< 0.77	20	0.77	ug/L							
Toluene	< 0.21	1.0	0.21	ug/L							
trans-1,2-Dichloroethene	< 0.29	1.0	0.29	ug/L							
trans-1,3-Dichloropropene	< 0.17	1.0	0.17	ug/L							
Trichloroethene	< 0.20	1.0	0.20	ug/L							
Trichlorofluoromethane	< 0.17	1.0	0.17	ug/L							
Vinyl chloride	< 0.087	1.0	0.087	ug/L							
Surrogate: 4-Bromofluorobenzene	*59.7*			*ug/L*	*55.0*		*109*	*80-121*			
Surrogate: Dibromofluoromethane	*56.1*			*ug/L*	*55.0*		*102*	*79.9-121*			
Surrogate: Toluene-d8	*55.5*			*ug/L*	*55.0*		*101*	*80-120*			
LCS (B9I1810-BS1)					Prepared & Analyzed: 09/18/09						
1,1,2,2-Tetrachloroethane	52.1	1.0	0.13	ug/L	50.0		104	80-121			
1,1-Dichloroethane	46.3	1.0	0.11	ug/L	50.0		92.6	80-125			
1,1-Dichloroethene	44.5	1.0	0.12	ug/L	50.0		89.0	80-125			
1,3,5-Trimethylbenzene	52.8	1.0	0.18	ug/L	50.0		106	75.4-125			
1,4-Dichlorobenzene	52.9	1.0	0.17	ug/L	50.0		106	75-125			
2-Chlorotoluene	51.2	1.0	0.17	ug/L	50.0		102	75.4-125			
Benzene	49.0	1.0	0.093	ug/L	50.0		97.9	80-120			
Bromoform	54.7	5.0	0.50	ug/L	50.0		109	80-120			
Chlorobenzene	54.2	1.0	0.15	ug/L	50.0		108	80-120			
Chloroform	46.3	1.0	0.19	ug/L	50.0		92.6	80-123			
Ethylbenzene	54.2	1.0	0.21	ug/L	50.0		108	80-120			
n-Butylbenzene	51.3	2.5	0.32	ug/L	50.0		103	75-125			
n-Propylbenzene	53.9	1.0	0.13	ug/L	50.0		108	75.8-125			
Toluene	50.8	1.0	0.21	ug/L	50.0		102	80-120			
Trichloroethene	50.0	1.0	0.20	ug/L	50.0		100	80-120			
Vinyl chloride	42.7	1.0	0.087	ug/L	50.0		85.4	75-130			
Surrogate: 4-Bromofluorobenzene	*59.6*			*ug/L*	*55.0*		*108*	*80-121*			
Surrogate: Dibromofluoromethane	*53.8*			*ug/L*	*55.0*		*97.8*	*79.9-121*			
Surrogate: Toluene-d8	*53.8*			*ug/L*	*55.0*		*97.8*	*80-120*			
Matrix Spike (B9I1810-MS1)		**Source: 0903969-01**			Prepared & Analyzed: 09/18/09						
1,1,2,2-Tetrachloroethane	51.1	1.0	0.13	ug/L	50.0	<1.0	102	76.8-125			
1,1-Dichloroethane	45.0	1.0	0.11	ug/L	50.0	<1.0	89.9	80-125			
1,1-Dichloroethene	42.7	1.0	0.12	ug/L	50.0	<1.0	85.4	80-125			
1,3,5-Trimethylbenzene	51.3	1.0	0.18	ug/L	50.0	<1.0	103	75-125			
1,4-Dichlorobenzene	51.8	1.0	0.17	ug/L	50.0	<1.0	104	75-125			
2-Chlorotoluene	48.5	1.0	0.17	ug/L	50.0	<1.0	97.0	75-125			
Benzene	46.2	1.0	0.093	ug/L	50.0	<1.0	92.4	80-120			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1810 - EPA 5030 Water (Purge and Trap)											
Matrix Spike (B9I1810-MS1)		**Source: 0903969-01**			Prepared & Analyzed: 09/18/09						
Bromoform	52.5	5.0	0.50	ug/L	50.0	<5.0	105	80-120			
Chlorobenzene	50.1	1.0	0.15	ug/L	50.0	<1.0	100	80-120			
Chloroform	44.8	1.0	0.19	ug/L	50.0	<1.0	89.7	79.8-125			
Ethylbenzene	50.8	1.0	0.21	ug/L	50.0	<1.0	102	80-120			
n-Butylbenzene	48.6	2.5	0.32	ug/L	50.0	<2.5	97.2	75-130			
n-Propylbenzene	50.7	1.0	0.13	ug/L	50.0	<1.0	101	75-125			
Toluene	48.3	1.0	0.21	ug/L	50.0	<1.0	96.7	80-120			
Trichloroethene	47.8	1.0	0.20	ug/L	50.0	<1.0	95.6	80-120			
Vinyl chloride	40.8	1.0	0.087	ug/L	50.0	<1.0	81.7	75-130			
Surrogate: 4-Bromofluorobenzene	*58.8*			*ug/L*	*55.0*		*107*	*80-121*			
Surrogate: Dibromofluoromethane	*53.0*			*ug/L*	*55.0*		*96.4*	*79.9-121*			
Surrogate: Toluene-d8	*54.8*			*ug/L*	*55.0*		*99.6*	*80-120*			
Matrix Spike Dup (B9I1810-MSD1)		**Source: 0903969-01**			Prepared & Analyzed: 09/18/09						
1,1,2,2-Tetrachloroethane	51.6	1.0	0.13	ug/L	50.0	<1.0	103	76.8-125	0.917	20	
1,1-Dichloroethane	45.8	1.0	0.11	ug/L	50.0	<1.0	91.5	80-125	1.79	20	
1,1-Dichloroethene	44.4	1.0	0.12	ug/L	50.0	<1.0	88.8	80-125	3.85	20	
1,3,5-Trimethylbenzene	51.8	1.0	0.18	ug/L	50.0	<1.0	104	75-125	0.985	20	
1,4-Dichlorobenzene	51.5	1.0	0.17	ug/L	50.0	<1.0	103	75-125	0.477	20	
2-Chlorotoluene	50.1	1.0	0.17	ug/L	50.0	<1.0	100	75-125	3.21	20	
Benzene	48.6	1.0	0.093	ug/L	50.0	<1.0	97.2	80-120	5.08	20	
Bromoform	52.5	5.0	0.50	ug/L	50.0	<5.0	105	80-120	0.0663	20	
Chlorobenzene	50.3	1.0	0.15	ug/L	50.0	<1.0	101	80-120	0.494	20	
Chloroform	46.2	1.0	0.19	ug/L	50.0	<1.0	92.5	79.8-125	3.08	20	
Ethylbenzene	50.2	1.0	0.21	ug/L	50.0	<1.0	100	80-120	1.21	20	
n-Butylbenzene	50.8	2.5	0.32	ug/L	50.0	<2.5	102	75-130	4.50	20	
n-Propylbenzene	51.6	1.0	0.13	ug/L	50.0	<1.0	103	75-125	1.83	20	
Toluene	50.8	1.0	0.21	ug/L	50.0	<1.0	102	80-120	4.93	20	
Trichloroethene	48.4	1.0	0.20	ug/L	50.0	<1.0	96.8	80-120	1.34	20	
Vinyl chloride	42.2	1.0	0.087	ug/L	50.0	<1.0	84.4	75-130	3.27	20	
Surrogate: 4-Bromofluorobenzene	*60.7*			*ug/L*	*55.0*		*110*	*80-121*			
Surrogate: Dibromofluoromethane	*54.6*			*ug/L*	*55.0*		*99.2*	*79.9-121*			
Surrogate: Toluene-d8	*56.8*			*ug/L*	*55.0*		*103*	*80-120*			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904018
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

Notes and Definitions

M2	Matrix spike recovery was low, the associated blank spike recovery was acceptable.
J	Parameter was present between the MDL and RL and should be considered an estimated value
H3b	The trip-blank sample was received and analyzed past holding time.
<	Less than value listed
dry	Sample results reported on a dry weight basis
NA	Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL	Method Detection Limit
RL	Reporting Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
MS	Matrix Spike = Laboratory Fortified Matrix (LFM)

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0910401B

Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number: 2319-B05.07 SIR1 300

Project Name: UMA SSI/R1

Sample Origination State: MN (use two letter postal state abbreviation)

COC Number: № 29017

COC 1 of 1

Project Manager: JME

Project QC Contact: KJN

Sampled by: EJC

Laboratory: Legend

Number of Containers/Preservative

	Location	Start Depth	Stop Depth	Depth Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Water: VOCs (HCl) #1	Water: SVOCs (unpreserved) #2	Water: Dissolved Metals (HNO_3)	Water: Total Metals (HNO_3)	Water: General (unpreserved) #3	Water: Diesel Range Organics (HCl)	Water: Nutrients (H_2SO_4) #4	Soil: VOCs (tared MeOH) #2	Soil: GRO, BTEX (tared MeOH) #1	Soil: DRO (tared unpreserved)	Soil: Metals (unpreserved)	Soil: SVOCs (unpreserved) #2	Soil: % Solids (plastic vial, unpres.)	Total Number Of Containers	
01	1. SOC3-GP2(Dup)	—	—	—	9-10-09	0910	X		X					1											1	PPL Metals (FF) See attached list.
02	2. SOC3-GP3(Dup)	—	—	—	9-10-09	0900	X		X					1											1	"
03	3. SOC4-GP7(1-2)	1	2	ft	9-10-09	1145		X	X														1	1	2	SVOCs See attached list
04	4. SOC4-GP4(1-2)	1	2	ft	9-10-09	1300		X	X			(Extra MS/MSD Volume)							3		3		3	3	12	VOCs, SVOCs, PPL Metals See attached list
05	5. Dup-2(Geoprobe)	—	—	—	9-10-09	1200		X			X								1			1	1	1	4	"
06	6. SOC4-GP4	—	—	—	9-10-09	1500	X		X				1	1											2	SVOCs, PPL Metals (FF) See attached list.
07	7. SOC4-GP5(1-3)	1	3	ft	9-10-09	1630		X														1	1	1	3	SVOCs, PPL Metals See attached list
08	8. SOC4-GP5	—	—	—	9-10-09	1700	X		X										3			1	1		5	VOCs, PPL Metals (FF), SVOCs See attached list
09	9. Trip Blank 9/11/09																									
	10.																									

Common Parameter/Container - Preservation Key

#1 - Volatile Organics = BTEX, GRO, TPH, 8260 Full List
#2 - Semivolatile Organics = PAHs, PCP, Dioxins, 8270 Full List, Herbicide/Pesticide/PCBs
#3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
#4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
[signature]	Y N	9-11-09	0735			
Relinquished By:	On Ice? Y N	Date	Time	Received by: [signature]	Date 9/11/09	Time 10:40

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other:

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

custody seal RK 5.6°

I:\RLGS\TOFORMS\Chain Of Custody Form 2009 Rev. 09\01\09

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [1]	Minnesota Tier SLV [4]	Minnesota SRV [5]	Minnesota Tier II Industrial SRV [6]
Metals										
Antimony	7440-36-0	Soil/Solid	6010B	0.0055	0.50	mg/kg	--	2.7	12	100
Arsenic	7440-38-2	Soil/Solid	6010B	0.10	0.50	mg/kg	--	15.1	9	20
Beryllium	7440-41-7	Soil/Solid	6010B	0.011	0.25	mg/kg	--	1.4	55	230
Cadmium	7440-43-9	Soil/Solid	6010B	0.025	0.25	mg/kg	--	4.4	25	200
Chromium	7440-47-3	Soil/Solid	6010B	0.012	0.50	mg/kg	--	1000000 (8)	44000 (8)	100000 (8)
Copper	7440-50-8	Soil/Solid	6010B	0.070	1.0	mg/kg	--	400	100	9000
Lead	7439-92-1	Soil/Solid	6010B	0.034	1.0	mg/kg	--	525	300	700
Nickel	7440-02-0	Soil/Solid	6010B	0.014	0.25	mg/kg	--	88	560	2500
Selenium	7782-49-2	Soil/Solid	6010B	0.11	1.0	mg/kg	--	1.5	160	1300
Silver	7440-22-4	Soil/Solid	6010B	0.0090	0.25	mg/kg	--	3.9	160	1300
Thallium	7440-28-0	Soil/Solid	6010B	0.13	2.0	mg/kg	--	--	3	21
Zinc	7440-66-6	Soil/Solid	6010B	0.22	1.0	mg/kg	--	1500	8700	75000
Metals										
Antimony	7440-36-0	Water/Liquid	6020	0.046	0.500	ug/L	6	--	--	--
Arsenic	7440-38-2	Water/Liquid	6010B	2	10.000	ug/L	--	--	--	--
Beryllium	7440-41-7	Water/Liquid	6020	0.027	0.5000	ug/L	0.08	--	--	--
Cadmium	7440-43-9	Water/Liquid	6010B	0.099	1.0000	ug/L	4	--	--	--
Chromium	7440-47-3	Water/Liquid	6010B	0.24	10.000	ug/L	100 (5)	--	--	--
Copper	7440-50-8	Water/Liquid	6010B	1.4	20.000	ug/L	--	--	--	--
Lead	7439-92-1	Water/Liquid	6010B	0.68	3.0000	ug/L	--	--	--	--
Nickel	7440-02-0	Water/Liquid	6010B	0.28	5.0000	ug/L	100	--	--	--
Selenium	7782-49-2	Water/Liquid	6010B	2.2	20.000	ug/L	30	--	--	--
Silver	7440-22-4	Water/Liquid	6010B	0.18	5.0000	ug/L	30	--	--	--
Thallium	7440-28-0	Water/Liquid	6020	0.0081	0.500	ug/L	0.5	--	--	--
Zinc	7440-66-6	Water/Liquid	6010B	4.4	20.000	ug/L	2000	--	--	--
Mercury										
Mercury	7439-97-6	Soil/Solid	7471A	0.0031	0.10	mg/kg	--	1.5 C	0.5	1.5
Mercury	7439-97-6	Water/Liquid	7470A	0.000031	0.00020	mg/L	--	--	--	--
Nitrate+Nitrite Nitrogen as N (Braun)										
N+N Nitrogen as N	NA	Water/Liquid	SM4500-NO3-F	0.007	0.02	mg/L	10 (3)	--	--	--
Total Kjeldahl Nitrogen (Braun)										
TKN as N	NA	Water/Liquid	SM4500-NH3-C	0.17	0.5	mg/L	--	--	--	--
Perchlorate (TA)										
Perchlorate	NA	Water/Liquid	314	0.36	4	ug/L	--	--	--	--
Nitrocellulose (TA)										
Nitrocellulose	NA	Soil/Solid	353.2Mod	0.78	0.5	mg/kg	--	--	--	--
Nitrocellulose (TA)										
Nitrocellulose	NA	Water/Liquid	353.2Mod	0.124	0.5	mg/L	--	--	--	--
Organochlorine Pesticides										
4,4'-DDD	72-54-8	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	56	125
4,4'-DDE	72-55-9	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	40	80
4,4'-DDT	50-29-3	Soil/Solid	8081A	0.0020	0.040	mg/kg	--	--	15	88
a-Chlordane	5103-71-9	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	--	--
Aldrin	309-00-2	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	1	2
alpha-BHC	319-84-6	Soil/Solid	8081A	0.0011	0.040	mg/kg	--	--	2	3.5
beta-BHC	319-85-7	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	7	15
delta-BHC	319-86-8	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	--	--
Dieldrin	60-57-1	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	0.8	2
Endosulfan I	959-98-8	Soil/Solid	8081A	0.0013	0.040	mg/kg	--	--	--	--
Endosulfan II	891-86-1	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
Endosulfan sulfate	1031-07-8	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
Endrin	72-20-8	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	8	56
Endrin aldehyde	7421-93-4	Soil/Solid	8081A	0.0041	0.040	mg/kg	--	--	--	--
Endrin ketone	53494-70-5	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
gamma-BHC (Lindane)	58-89-9	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	9	15
gamma-Chlordane	5566-34-7	Soil/Solid	8081A	0.0017	0.040	mg/kg	--	--	--	--
Heptachlor	76-44-8	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	2	3.5
Heptachlor epoxide	1024-57-3	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	0.4	3
Methoxychlor	72-43-5	Soil/Solid	8081A	0.0019	0.040	mg/kg	--	--	11	50
Toxaphene	8001-35-2	Soil/Solid	8081A	0.015	0.080	mg/kg	--	--	13	28
Organochlorine Pesticides										
4,4'-DDD	72-54-8	Water/Liquid	8081A	0.026	0.40	ug/L	1	--	--	--
4,4'-DDE	72-55-9	Water/Liquid	8081A	0.037	0.40	ug/L	1	--	--	--
4,4'-DDT	50-29-3	Water/Liquid	8081A	0.031	0.40	ug/L	1	--	--	--
a-Chlordane	5103-71-9	Water/Liquid	8081A	0.030	0.40	ug/L	--	--	--	--
Aldrin	309-00-2	Water/Liquid	8081A	0.036	0.40	ug/L	--	--	--	--
alpha-BHC	319-84-6	Water/Liquid	8081A	0.026	0.40	ug/L	--	--	--	--
beta-BHC	319-85-7	Water/Liquid	8081A	0.026	0.40	ug/L	--	--	--	--
delta-BHC	319-86-8	Water/Liquid	8081A	0.023	0.40	ug/L	--	--	--	--
Dieldrin	60-57-1	Water/Liquid	8081A	0.031	0.40	ug/L	0.006 (4)	--	--	--
Endosulfan I	959-98-8	Water/Liquid	8081A	0.032	0.40	ug/L	--	--	--	--
Endosulfan II	891-86-1	Water/Liquid	8081A	0.035	0.40	ug/L	--	--	--	--

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [1]	Minnesota Tier SLV [4]	Minnesota SRV [5]	Minnesota Tier II Industrial SRV [6]
Endosulfan sulfate	1031-07-8	Water/Liquid	8081A	0.034	0.40	ug/L	--	--	--	--
Endrin	72-20-8	Water/Liquid	8081A	0.029	0.40	ug/L	--	--	--	--
Endrin aldehyde	7421-93-4	Water/Liquid	8081A	0.044	0.40	ug/L	--	--	--	--
Endrin ketone	53494-70-5	Water/Liquid	8081A	0.031	0.40	ug/L	--	--	--	--
gamma-BHC (Lindane)	58-89-9	Water/Liquid	8081A	0.024	0.40	ug/L	--	--	--	--
gamma-Chlordane	5566-34-7	Water/Liquid	8081A	0.030	0.40	ug/L	--	--	--	--
Heptachlor	76-44-8	Water/Liquid	8081A	0.028	0.40	ug/L	0.08	--	--	--
Heptachlor epoxide	1024-57-3	Water/Liquid	8081A	0.030	0.40	ug/L	0.04	--	--	--
Methoxychlor	72-43-5	Water/Liquid	8081A	0.032	0.40	ug/L	--	--	--	--
Toxaphene	8001-35-2	Water/Liquid	8081A	0.069	1.00	ug/L	0.3	--	--	--
MDA List 1 Pesticides (Braun)										
EPTC	759-94-4	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Propachlor	1918-16-7	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Ethalfluralin	55283-68-6	Soil/Solid	8270C	0.014	0.04	mg/kg	--	--	--	--
Deisopropylatrazine	1007-28-9	Soil/Solid	8270C	0.0080	0.04	mg/kg	--	--	--	--
Trifluralin	1582-09-8	Soil/Solid	8270C	0.014	0.04	mg/kg	--	--	--	--
Desethylatrazine	6190-65-4	Soil/Solid	8270C	0.011	0.04	mg/kg	--	--	--	--
Phorate	298-02-2	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Prometon	1610-18-0	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Simazine	122-34-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Atrazine	1912-24-9	Soil/Solid	8270C	0.0100	0.04	mg/kg	--	--	--	--
Propazine	139-40-2	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Terbufos	13071-79-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	0.6	3.5
Fonofos	944-22-9	Soil/Solid	8270C	0.0040	0.04	mg/kg	--	--	--	--
Triallate	2303-17-5	Soil/Solid	8270C	0.0050	0.04	mg/kg	--	--	--	--
Metribuzin	21087-64-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Dimethenamid	87674-68-8	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Acetochlor	34256-82-1	Soil/Solid	8270C	0.010	0.04	mg/kg	--	--	--	--
Alachlor	15972-60-8	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Cyanazine	21725-46-2	Soil/Solid	8270C	0.0080	0.04	mg/kg	--	--	--	--
Metolachlor	51218-45-2	Soil/Solid	8270C	0.0030	0.04	mg/kg	--	--	435	3300
Chlorpyrifos	2921-88-2	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Pendimethalin	40487-42-1	Soil/Solid	8270C	0.016	0.04	mg/kg	--	--	--	--
MDA List 1 Pesticides (Braun)										
EPTC	759-94-4	Water/Liquid	8270C	0.22	0.50	ug/L	200	--	--	--
Propachlor	1918-16-7	Water/Liquid	8270C	0.14	0.50	ug/L	--	--	--	--
Ethalfluralin	55283-68-6	Water/Liquid	8270C	0.47	0.50	ug/L	300 (1)	--	--	--
Deisopropylatrazine	1007-28-9	Water/Liquid	8270C	0.26	0.50	ug/L	--	--	--	--
Trifluralin	1582-09-8	Water/Liquid	8270C	0.21	0.50	ug/L	5 (1)	--	--	--
Desethylatrazine	6190-65-4	Water/Liquid	8270C	0.29	0.50	ug/L	--	--	--	--
Phorate	298-02-2	Water/Liquid	8270C	0.58	1.00	ug/L	1 (1)	--	--	--
Prometon	1610-18-0	Water/Liquid	8270C	0.29	0.50	ug/L	100	--	--	--
Simazine	122-34-9	Water/Liquid	8270C	0.32	0.50	ug/L	4 (3)	--	--	--
Atrazine	1912-24-9	Water/Liquid	8270C	0.24	0.50	ug/L	3 (3)	--	--	--
Propazine	139-40-2	Water/Liquid	8270C	0.21	0.50	ug/L	10 (1)	--	--	--
Terbufos	13071-79-9	Water/Liquid	8270C	0.54	1.00	ug/L	0.2 (1)	--	--	--
Fonofos	944-22-9	Water/Liquid	8270C	0.30	0.50	ug/L	10 (1)	--	--	--
Triallate	2303-17-5	Water/Liquid	8270C	0.34	0.50	ug/L	9 (1)	--	--	--
Metribuzin	21087-64-9	Water/Liquid	8270C	0.35	0.50	ug/L	200	--	--	--
Dimethenamid	87674-68-8	Water/Liquid	8270C	0.24	0.50	ug/L	40 (1)	--	--	--
Acetochlor	34256-82-1	Water/Liquid	8270C	0.25	0.50	ug/L	9 (4)	--	--	--
Alachlor	15972-60-8	Water/Liquid	8270C	0.19	0.50	ug/L	5 (4)	--	--	--
Cyanazine	21725-46-2	Water/Liquid	8270C	0.48	0.50	ug/L	1	--	--	--
Metolachlor	51218-45-2	Water/Liquid	8270C	0.28	0.50	ug/L	300 (4)	--	--	--
Chlorpyrifos	2921-88-2	Water/Liquid	8270C	0.34	0.50	ug/L	20 (1)	--	--	--
Pendimethalin	40487-42-1	Water/Liquid	8270C	0.25	0.50	ug/L	--	--	--	--
MDA List 2 Pesticides (Braun)										
Dicamba	1918-00-9	Soil/Solid	8270C	0.008	0.50	mg/kg	--	--	--	--
MCPA	94-74-6	Soil/Solid	8270C	0.014	0.50	mg/kg	--	--	16	110
2,4-D	94-75-7	Soil/Solid	8270C	0.012	0.50	mg/kg	--	--	285	2200
Trichlopyr	55336-06-3	Soil/Solid	8270C	0.008	0.50	mg/kg	--	--	--	--
Pentachlorophenol	87-86-5	Soil/Solid	8270C	0.007	0.50	mg/kg	--	--	80	120
2,4,5-T.P.	93-72-1	Soil/Solid	8270C	0.007	0.50	mg/kg	--	--	--	--
2,4,5-T	93-76-5	Soil/Solid	8270C	0.009	0.50	mg/kg	--	--	290	2150
Dinoseb	88-85-7	Soil/Solid	8270C	0.005	0.50	mg/kg	--	--	--	--
2,4-D.B.	94-82-6	Soil/Solid	8270C	0.011	0.50	mg/kg	--	--	226	1750
Bentazone	25057-89-0	Soil/Solid	8270C	0.009	0.50	mg/kg	--	--	--	--
Picloram	1918-02-1	Soil/Solid	8270C	0.011	0.50	mg/kg	--	--	2000	15000
MDA List 2 Pesticides (Braun)										
Dicamba	1918-00-9	Water/Liquid	8270C	0.38	0.50	ug/L	200	--	--	--

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Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [1]	Minnesota Tier SLV [2]	Minnesota SRV [3]	Minnesota Tier II Industrial SRV [4]
MCPA	94-74-6	Water/Liquid	8270C	0.29	0.30	ug/L	--	--	--	--
2,4-D	94-75-7	Water/Liquid	8270C	0.26	0.50	ug/L	70	--	--	--
Trichlopyr	55336-06-3	Water/Liquid	8270C	0.41	0.50	ug/L	300 (1)	--	--	--
Pentachlorophenol	87-86-5	Water/Liquid	8270C	0.39	0.50	ug/L	1 (3)	--	--	--
2,4,5-T.P.	93-72-1	Water/Liquid	8270C	0.28	0.50	ug/L	50 (3)	--	--	--
2,4,5-T	93-76-5	Water/Liquid	8270C	0.31	0.50	ug/L	--	--	--	--
Dinoseb	88-85-7	Water/Liquid	8270C	0.34	0.50	ug/L	7 (1)	--	--	--
2,4-D.B.	94-82-6	Water/Liquid	8270C	0.15	0.50	ug/L	60 (1)	--	--	--
Bentazone	25057-89-0	Water/Liquid	8270C	0.22	0.50	ug/L	200 (1)	--	--	--
Picloram	1918-02-1	Water/Liquid	8270C	0.25	0.50	ug/L	500	--	--	--
PCBs										
Aroclor 1016	12674-11-2	Soil/Solid	8082	0.017	0.20	mg/kg	--	--	--	--
Aroclor 1221	11104-28-2	Soil/Solid	8082	0.039	0.20	mg/kg	--	--	--	--
Aroclor 1232	11141-16-5	Soil/Solid	8082	0.010	0.20	mg/kg	--	--	--	--
Aroclor 1242	53469-21-9	Soil/Solid	8082	0.016	0.20	mg/kg	--	--	--	--
Aroclor 1248	12672-29-6	Soil/Solid	8082	0.0078	0.20	mg/kg	--	--	--	--
Aroclor 1254	11097-69-1	Soil/Solid	8082	0.0071	0.20	mg/kg	--	--	--	--
Aroclor 1260	11096-82-5	Soil/Solid	8082	0.015	0.20	mg/kg	--	--	--	--
PCBs										
Aroclor 1016	12674-11-2	Water/Liquid	8082	0.41	2.0	ug/L	--	--	--	--
Aroclor 1221	11104-28-2	Water/Liquid	8082	0.36	2.0	ug/L	--	--	--	--
Aroclor 1232	11141-16-5	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1242	53469-21-9	Water/Liquid	8082	0.58	2.0	ug/L	--	--	--	--
Aroclor 1248	12672-29-6	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1254	11097-69-1	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1260	11096-82-5	Water/Liquid	8082	0.32	2.0	ug/L	--	--	--	--
VOCs - Soil/Solid										
1,1,1,2-Tetrachloroethane	630-20-6	Soil/Solid	8260B	0.019	0.25	mg/kg	--	1.4	31	51
1,1,1-Trichloroethane	71-55-6	Soil/Solid	8260B	0.0098	0.25	mg/kg	--	3.5	140	472
1,1,2,2-Tetrachloroethane	79-34-5	Soil/Solid	8260B	0.012	0.25	mg/kg	--	0.005	3.5	6.5
1,1,2-Trichloroethane	79-00-5	Soil/Solid	8260B	0.022	0.25	mg/kg	--	0.010	9	14
1,1,2-Trichlorotrifluoroethane	76-13-1	Soil/Solid	8260B	0.052	0.25	mg/kg	--	2580	3745	5430
1,1-Dichloroethane	75-34-3	Soil/Solid	8260B	0.013	0.25	mg/kg	--	0.18	34	55
1,1-Dichloroethene	75-35-4	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.025	20	60
1,1-Dichloropropene	563-58-6	Soil/Solid	8260B	0.021	0.25	mg/kg	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	Soil/Solid	8260B	0.063	0.50	mg/kg	--	--	--	--
1,2,3-Trichloropropane	96-18-4	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.35	--	--
1,2,4-Trichlorobenzene	120-82-1	Soil/Solid	8260B	0.052	0.50	mg/kg	--	0.31	200	985
1,2,4-Trimethylbenzene	95-63-6	Soil/Solid	8260B	0.013	0.25	mg/kg	--	--	8	25
1,2-Dibromo-3-chloropropane	96-12-8	Soil/Solid	8260B	0.079	0.50	mg/kg	--	0.001	--	--
1,2-Dibromoethane (EDB)	106-93-4	Soil/Solid	8260B	0.0056	0.25	mg/kg	--	0.00001	0.3	0.5
1,2-Dichlorobenzene	95-50-1	Soil/Solid	8260B	0.0055	0.25	mg/kg	--	8.1	26	75
1,2-Dichloroethane	107-06-2	Soil/Solid	8260B	0.030	0.25	mg/kg	--	0.010	4	6
1,2-Dichloropropane	78-87-5	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.011	4	6
1,3,5-Trimethylbenzene	108-67-8	Soil/Solid	8260B	0.0077	0.25	mg/kg	--	--	3	10
1,3-Dichlorobenzene	541-73-1	Soil/Solid	8260B	0.015	0.25	mg/kg	--	4.2	26	200
1,3-Dichloropropane	142-28-9	Soil/Solid	8260B	0.017	0.25	mg/kg	--	--	--	--
1,4-Dichlorobenzene	106-46-7	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.13	30	50
2,2-Dichloropropane	594-20-7	Soil/Solid	8260B	0.034	0.50	mg/kg	--	--	--	--
2-Butanone	78-93-3	Soil/Solid	8260B	0.069	2.0	mg/kg	--	--	5500	19000
2-Chlorotoluene	95-49-8	Soil/Solid	8260B	0.015	0.25	mg/kg	--	--	436	436
4-Chlorotoluene	106-43-4	Soil/Solid	8260B	0.015	0.25	mg/kg	--	--	--	--
Acetone	67-64-1	Soil/Solid	8260B	0.16	2.0	mg/kg	--	0.7	340	1000
Allyl chloride	107-05-1	Soil/Solid	8260B	0.016	0.50	mg/kg	--	0.032	--	--
Benzene	71-43-2	Soil/Solid	8260B	0.0070	0.25	mg/kg	--	0.034	6	10
Bromobenzene	108-86-1	Soil/Solid	8260B	0.017	0.25	mg/kg	--	--	--	--
Bromochloromethane	74-97-5	Soil/Solid	8260B	0.021	0.25	mg/kg	--	0.15	--	--
Bromodichloromethane	75-27-4	Soil/Solid	8260B	0.020	0.25	mg/kg	--	0.013	10	17
Bromoform	75-25-2	Soil/Solid	8260B	0.015	0.50	mg/kg	--	0.14	370	650
Bromomethane	74-83-9	Soil/Solid	8260B	0.012	0.50	mg/kg	--	0.5	0.7	2
Carbon tetrachloride	56-23-5	Soil/Solid	8260B	0.018	0.25	mg/kg	--	0.023	0.3	0.9
Chlorobenzene	108-90-7	Soil/Solid	8260B	0.011	0.25	mg/kg	--	1.1	11	32
Chloroethane	75-00-3	Soil/Solid	8260B	0.045	0.25	mg/kg	--	--	1000	3000
Chloroform	67-66-3	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.17	2.5	4
Chloromethane	74-87-3	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.006	8	23
cis-1,2-Dichloroethene	156-59-2	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.14	8	22
cis-1,3-Dichloropropene	10061-01-5	Soil/Solid	8260B	0.0098	0.25	mg/kg	--	0.005 M	--	--
Dibromochloromethane	124-48-1	Soil/Solid	8260B	0.014	0.25	mg/kg	--	0.03	12	20
Dibromomethane	74-95-3	Soil/Solid	8260B	0.021	0.25	mg/kg	--	--	260	1860
Dichlorodifluoromethane	75-71-8	Soil/Solid	8260B	0.035	0.50	mg/kg	--	38	16	50
Dichlorofluoromethane	75-43-4	Soil/Solid	8260B	0.014	0.25	mg/kg	--	--	--	--
Ethyl ether	60-29-7	Soil/Solid	8260B	0.017	0.50	mg/kg	--	1.2	--	--
Ethylbenzene	100-41-4	Soil/Solid	8260B	0.011	0.25	mg/kg	--	4.7	200	200
Hexachlorobutadiene	87-68-3	Soil/Solid	8260B	0.11	1.0	mg/kg	--	25	6	37
Isopropylbenzene	98-82-8	Soil/Solid	8260B	0.019	0.25	mg/kg	--	18	30	87

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Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits	Minnesota Tier SLV [a]	Minnesota SRV [b]	Minnesota Tier II Industrial SRV [c]
m,p-Xylene	108-38-3/ 106-42-3	Soil/Solid	8260B	0.024	0.50	mg/kg	--	45 M	45 M	130 M
Methyl isobutyl ketone	108-10-1	Soil/Solid	8260B	0.031	0.50	mg/kg	--	0.42	1700	9000
Methyl tert-butyl ether	1634-04-4	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.027	--	--
Methylene chloride	75-09-2	Soil/Solid	8260B	0.043	1.0	mg/kg	--	0.068	97	158
Naphthalene	91-20-3	Soil/Solid	8260B	0.060	0.50	mg/kg	--	7.5	10	28
n-Butylbenzene	104-51-8	Soil/Solid	8260B	0.012	0.25	mg/kg	--	--	30	92
n-Propylbenzene	103-65-1	Soil/Solid	8260B	0.013	0.25	mg/kg	--	--	30	93
o-Xylene	95-47-6	Soil/Solid	8260B	0.015	0.25	mg/kg	--	45 M	45 M	130 M
p-Isopropyltoluene	99-87-6	Soil/Solid	8260B	0.014	0.25	mg/kg	--	--	--	--
sec-Butylbenzene	135-98-8	Soil/Solid	8260B	0.012	0.25	mg/kg	--	--	25	70
Styrene	100-42-5	Soil/Solid	8260B	0.012	0.25	mg/kg	--	1.9	210	600
tert-Butylbenzene	98-06-6	Soil/Solid	8260B	0.0073	0.25	mg/kg	--	--	30	90
Tetrachloroethene	127-18-4	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.068	72	131
Tetrahydrofuran	109-99-9	Soil/Solid	8260B	0.068	2.0	mg/kg	--	0.16	--	--
Toluene	108-88-3	Soil/Solid	8260B	0.0063	0.25	mg/kg	--	6.4	107	305
trans-1,2-Dichloroethene	156-60-5	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.27	11	33
trans-1,3-Dichloropropene	10061-02-6	Soil/Solid	8260B	0.013	0.25	mg/kg	--	0.005 M	--	--
Trichloroethene	79-01-6	Soil/Solid	8260B	0.013	0.25	mg/kg	--	0.14	29	46
Trichlorofluoromethane	75-69-4	Soil/Solid	8260B	0.035	0.25	mg/kg	--	22	67	195
Vinyl chloride	75-01-4	Soil/Solid	8260B	0.031	0.25	mg/kg	--	0.001	0.8	2.2
VOCs - Water/Liquid										
1,1,1,2-Tetrachloroethane	630-20-6	Water/Liquid	8260B	0.083	1.0	ug/L	70	--	--	--
1,1,1-Trichloroethane	71-55-6	Water/Liquid	8260B	0.098	1.0	ug/L	9000 (4)	--	--	--
1,1,2,2-Tetrachloroethane	79-34-5	Water/Liquid	8260B	0.084	1.0	ug/L	2	--	--	--
1,1,2-Trichloroethane	79-00-5	Water/Liquid	8260B	0.15	1.0	ug/L	3	--	--	--
1,1,2-Trichlorotrifluoroethane	76-13-1	Water/Liquid	8260B	0.10	1.0	ug/L	200000	--	--	--
1,1-Dichloroethane	75-34-3	Water/Liquid	8260B	0.094	1.0	ug/L	100 (7)	--	--	--
1,1-Dichloroethene	75-35-4	Water/Liquid	8260B	0.10	1.0	ug/L	200	--	--	--
1,1-Dichloropropene	563-58-6	Water/Liquid	8260B	0.099	1.0	ug/L	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	Water/Liquid	8260B	0.40	5.0	ug/L	--	--	--	--
1,2,3-Trichloropropane	96-18-4	Water/Liquid	8260B	0.13	2.5	ug/L	40	--	--	--
1,2,4-Trichlorobenzene	120-82-1	Water/Liquid	8260B	0.52	5.0	ug/L	--	--	--	--
1,2,4-Trimethylbenzene	95-63-6	Water/Liquid	8260B	0.052	1.0	ug/L	--	--	--	--
1,2-Dibromo-3-chloropropane	96-12-8	Water/Liquid	8260B	1.2	5.0	ug/L	--	--	--	--
1,2-Dibromoethane (EDB)	106-93-4	Water/Liquid	8260B	0.10	2.5	ug/L	0.004	--	--	--
1,2-Dichlorobenzene	95-50-1	Water/Liquid	8260B	0.12	1.0	ug/L	600	--	--	--
1,2-Dichloroethane	107-06-2	Water/Liquid	8260B	0.084	1.0	ug/L	4	--	--	--
1,2-Dichloropropane	78-87-5	Water/Liquid	8260B	0.13	1.0	ug/L	5	--	--	--
1,3,5-Trimethylbenzene	108-67-8	Water/Liquid	8260B	0.066	1.0	ug/L	100 (4) (6)	--	--	--
1,3-Dichlorobenzene	541-73-1	Water/Liquid	8260B	0.094	1.0	ug/L	--	--	--	--
1,3-Dichloropropane	142-28-9	Water/Liquid	8260B	0.074	1.0	ug/L	--	--	--	--
1,4-Dichlorobenzene	106-46-7	Water/Liquid	8260B	0.053	1.0	ug/L	10	--	--	--
2,2-Dichloropropane	594-20-7	Water/Liquid	8260B	0.23	5.0	ug/L	--	--	--	--
2-Butanone	78-93-3	Water/Liquid	8260B	0.58	20	ug/L	4000	--	--	--
2-Chlorotoluene	95-49-8	Water/Liquid	8260B	0.077	1.0	ug/L	--	--	--	--
4-Chlorotoluene	106-43-4	Water/Liquid	8260B	0.059	1.0	ug/L	--	--	--	--
Acetone	67-64-1	Water/Liquid	8260B	0.69	20	ug/L	700	--	--	--
Allyl chloride	107-05-1	Water/Liquid	8260B	0.28	5.0	ug/L	30	--	--	--
Benzene	71-43-2	Water/Liquid	8260B	0.047	1.0	ug/L	2 (4)	--	--	--
Bromobenzene	108-86-1	Water/Liquid	8260B	0.084	1.0	ug/L	--	--	--	--
Bromochloromethane	74-97-5	Water/Liquid	8260B	0.075	1.0	ug/L	--	--	--	--
Bromodichloromethane	75-27-4	Water/Liquid	8260B	0.13	1.0	ug/L	6	--	--	--
Bromoform	75-25-2	Water/Liquid	8260B	0.074	5.0	ug/L	40	--	--	--
Bromomethane	74-83-9	Water/Liquid	8260B	0.26	5.0	ug/L	10	--	--	--
Carbon tetrachloride	56-23-5	Water/Liquid	8260B	0.074	1.0	ug/L	3	--	--	--
Chlorobenzene	108-90-7	Water/Liquid	8260B	0.025	1.0	ug/L	100	--	--	--
Chloroethane	75-00-3	Water/Liquid	8260B	0.26	2.5	ug/L	--	--	--	--
Chloroform	67-66-3	Water/Liquid	8260B	0.098	1.0	ug/L	30 (4) (6)	--	--	--
Chloromethane	74-87-3	Water/Liquid	8260B	0.098	2.5	ug/L	--	--	--	--
cis-1,2-Dichloroethene	156-59-2	Water/Liquid	8260B	0.12	1.0	ug/L	50 (4)	--	--	--
cis-1,3-Dichloropropene	10061-01-5	Water/Liquid	8260B	0.11	1.0	ug/L	--	--	--	--
Dibromochloromethane	124-48-1	Water/Liquid	8260B	0.084	2.5	ug/L	10	--	--	--
Dibromomethane	74-95-3	Water/Liquid	8260B	0.14	2.5	ug/L	--	--	--	--
Dichlorodifluoromethane	75-71-8	Water/Liquid	8260B	0.39	5.0	ug/L	700 (4)	--	--	--
Dichlorofluoromethane	75-43-4	Water/Liquid	8260B	0.070	1.0	ug/L	--	--	--	--
Ethyl ether	60-29-7	Water/Liquid	8260B	0.10	5.0	ug/L	1000	--	--	--
Ethylbenzene	100-41-4	Water/Liquid	8260B	0.055	1.0	ug/L	700	--	--	--
Hexachlorobutadiene	87-68-3	Water/Liquid	8260B	0.58	10	ug/L	1	--	--	--
Isopropylbenzene	98-82-8	Water/Liquid	8260B	0.068	1.0	ug/L	300	--	--	--
m,p-Xylene	108-38-3 / 106-42-3	Water/Liquid	8260B	0.14	2.0	ug/L	10000 M	--	--	--
Methyl isobutyl ketone	108-10-1	Water/Liquid	8260B	0.13	5.0	ug/L	300	--	--	--
Methyl tert-butyl ether	1634-04-4	Water/Liquid	8260B	0.079	1.0	ug/L	--	--	--	--

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [a]	Minnesota Tier SLV [a]	Minnesota SRV [a]	Minnesota Tier II Industrial SRV [a]
Methylene chloride	75-09-2	Water/Liquid	8260B	0.29	5.0	ug/L	5 (3)	--	--	--
Naphthalene	91-20-3	Water/Liquid	8260B	0.38	5.0	ug/L	300	--	--	--
n-Butylbenzene	104-51-8	Water/Liquid	8260B	0.094	2.5	ug/L	--	--	--	--
n-Propylbenzene	103-65-1	Water/Liquid	8260B	0.079	1.0	ug/L	--	--	--	--
o-Xylene	95-47-6	Water/Liquid	8260B	0.074	1.0	ug/L	10000 M	--	--	--
p-Isopropyltoluene	99-87-6	Water/Liquid	8260B	0.087	2.5	ug/L	--	--	--	--
sec-Butylbenzene	135-98-8	Water/Liquid	8260B	0.030	1.0	ug/L	--	--	--	--
Styrene	100-42-5	Water/Liquid	8260B	0.072	1.0	ug/L	--	--	--	--
tert-Butylbenzene	98-06-6	Water/Liquid	8260B	0.046	1.0	ug/L	--	--	--	--
Tetrachloroethene	127-18-4	Water/Liquid	8260B	0.10	1.0	ug/L	5 (3)	--	--	--
Tetrahydrofuran	109-99-9	Water/Liquid	8260B	0.76	20	ug/L	--	--	--	--
Toluene	108-88-3	Water/Liquid	8260B	0.036	1.0	ug/L	1000	--	--	--
trans-1,2-Dichloroethene	156-60-5	Water/Liquid	8260B	0.14	1.0	ug/L	100	--	--	--
trans-1,3-Dichloropropene	10061-02-6	Water/Liquid	8260B	0.082	1.0	ug/L	--	--	--	--
Trichloroethene	79-01-6	Water/Liquid	8260B	0.097	1.0	ug/L	5 (3)	--	--	--
Trichlorofluoromethane	75-69-4	Water/Liquid	8260B	0.17	1.0	ug/L	2000	--	--	--
Vinyl chloride	75-01-4	Water/Liquid	8260B	0.10	1.0	ug/L	0.2 (4)	--	--	--
SemiVolatile Organics										
1,2,4-Trichlorobenzene	120-82-1	Soil/Solid	8270C	0.020	0.33	mg/kg	--	0.31	200	985
1,2-Dichlorobenzene	95-50-1	Soil/Solid	8270C	0.012	0.33	mg/kg	--	8.1	26	75
1,2-Diphenylhydrazine as Azobenzene	103-33-3	Soil/Solid	8270C	0.039	0.33	mg/kg	--	--	--	--
1,3-Dichlorobenzene	541-73-1	Soil/Solid	8270C	0.014	0.33	mg/kg	--	4.2	26	200
1,4-Dichlorobenzene	106-46-7	Soil/Solid	8270C	0.013	0.33	mg/kg	--	0.13	30	50
2,3,4,6-Tetrachlorophenol	58-90-2	Soil/Solid	8270C	0.072	0.67	mg/kg	--	--	636	3700
2,4,5-Trichlorophenol	95-95-4	Soil/Solid	8270C	0.039	0.67	mg/kg	--	--	1920	10600
2,4,6-Trichlorophenol	88-06-2	Soil/Solid	8270C	0.081	0.67	mg/kg	--	0.21	595	1060
2,4-Dichlorophenol	120-83-2	Soil/Solid	8270C	0.046	0.67	mg/kg	--	0.076	46	230
2,4-Dimethylphenol	105-67-9	Soil/Solid	8270C	0.079	0.67	mg/kg	--	0.34	390	1925
2,4-Dinitrophenol	51-28-5	Soil/Solid	8270C	0.064	0.67	mg/kg	--	0.014	--	--
2,4-Dinitrotoluene	121-14-2	Soil/Solid	8270C	0.044	0.33	mg/kg	--	0.001	50	355
2,6-Dichlorophenol	87-65-0	Soil/Solid	8270C	0.042	0.67	mg/kg	--	--	--	--
2,6-Dinitrotoluene	606-20-2	Soil/Solid	8270C	0.040	0.33	mg/kg	--	0.001	25	175
2-Chloronaphthalene	91-58-7	Soil/Solid	8270C	0.018	0.33	mg/kg	--	--	--	--
2-Chlorophenol	95-57-8	Soil/Solid	8270C	0.029	0.67	mg/kg	--	0.26	--	--
2-Methylnaphthalene	91-57-6	Soil/Solid	8270C	0.021	0.33	mg/kg	--	--	100	369
2-Methylphenol	95-48-7	Soil/Solid	8270C	0.019	0.67	mg/kg	--	0.064	75	352
2-Nitroaniline	88-74-4	Soil/Solid	8270C	0.041	0.33	mg/kg	--	--	--	--
2-Nitrophenol	88-75-5	Soil/Solid	8270C	0.040	0.67	mg/kg	--	0.60	--	--
3,3'-Dichlorobenzidine	91-94-1	Soil/Solid	8270C	0.21	1.6	mg/kg	--	0.36	25	50
3-Nitroaniline	99-09-2	Soil/Solid	8270C	0.041	0.33	mg/kg	--	--	--	--
4,6-Dinitro-2-methylphenol	534-52-1	Soil/Solid	8270C	0.097	0.67	mg/kg	--	--	--	--
4-Bromophenyl phenyl ether	101-55-3	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	--	--
4-Chloro-3-methylphenol	59-50-7	Soil/Solid	8270C	0.075	0.67	mg/kg	--	--	--	--
4-Chloroaniline	106-47-8	Soil/Solid	8270C	0.022	0.67	mg/kg	--	--	--	--
4-Chlorophenyl phenyl ether	7005-72-3	Soil/Solid	8270C	0.024	0.33	mg/kg	--	--	--	--
4-Methylphenol	106-44-5	Soil/Solid	8270C	0.017	0.67	mg/kg	--	0.033	10	59
4-Nitroaniline	100-01-6	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	--	--
4-Nitrophenol	100-02-7	Soil/Solid	8270C	0.081	0.67	mg/kg	--	--	--	--
Acenaphthene	83-32-9	Soil/Solid	8270C	0.020	0.33	mg/kg	--	50	1200	5260
Acenaphthylene	208-96-8	Soil/Solid	8270C	0.031	0.33	mg/kg	--	--	--	--
Aniline	62-53-3	Soil/Solid	8270C	0.034	0.67	mg/kg	--	--	--	--
Anthracene	120-12-7	Soil/Solid	8270C	0.043	0.33	mg/kg	--	942	7880	45400
Benzidine	92-87-5	Soil/Solid	8270C	0.71	2.5	mg/kg	--	--	--	--
Benzo (a) anthracene	56-55-3	Soil/Solid	8270C	0.045	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (a) pyrene	50-32-8	Soil/Solid	8270C	0.049	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (b) fluoranthene	205-99-2	Soil/Solid	8270C	0.048	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (g,h,i) perylene	191-24-2	Soil/Solid	8270C	0.050	0.33	mg/kg	--	--	--	--
Benzo (k) fluoranthene	207-08-9	Soil/Solid	8270C	0.053	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzoic acid	65-85-0	Soil/Solid	8270C	0.036	0.33	mg/kg	--	30	50000	100000
Benzyl alcohol	100-51-6	Soil/Solid	8270C	0.11	0.67	mg/kg	--	--	8700	56000
Bis(2-chloroethoxy)methane	111-91-1	Soil/Solid	8270C	0.021	0.33	mg/kg	--	--	--	--
Bis(2-chloroethyl)ether	111-44-4	Soil/Solid	8270C	0.013	0.33	mg/kg	--	0.001	2.5	5
Bis(2-chloroisopropyl)ether	39638-32-9	Soil/Solid	8270C	0.017	0.33	mg/kg	--	--	--	--
Bis(2-ethylhexyl)phthalate	117-81-7	Soil/Solid	8270C	0.046	0.33	mg/kg	--	40	570	2100
Butyl benzyl phthalate	85-68-7	Soil/Solid	8270C	0.047	0.33	mg/kg	--	28	580	3700
Carbazole	86-74-8	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	700	1310
Chrysene	218-01-9	Soil/Solid	8270C	0.049	0.33	mg/kg	--	10.2 T	2 T	3 T
Dibenz (a,h) anthracene	53-70-3	Soil/Solid	8270C	0.053	0.33	mg/kg	--	10.2 T	2 T	3 T
Dibenzofuran	132-64-9	Soil/Solid	8270C	0.022	0.33	mg/kg	--	--	104	810

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits	Minnesota Tier SLV *	Minnesota SRV *	Minnesota Tier II Industrial SRV *
Diethyl phthalate	84-66-2	Soil/Solid	8270C	0.045	0.33	mg/kg	--	18	--	--
Dimethyl phthalate	131-11-3	Soil/Solid	8270C	0.043	0.33	mg/kg	--	172	--	--
Di-n-butyl phthalate	84-74-2	Soil/Solid	8270C	0.054	0.33	mg/kg	--	23	2440	16300
Di-n-octyl phthalate	117-84-0	Soil/Solid	8270C	0.056	0.33	mg/kg	--	--	520	3700
Fluoranthene	206-44-0	Soil/Solid	8270C	0.047	0.33	mg/kg	--	295	1080	6800
Fluorene	86-73-7	Soil/Solid	8270C	0.011	0.33	mg/kg	--	47	850	4120
Hexachlorobenzene	118-74-1	Soil/Solid	8270C	0.041	0.33	mg/kg	--	0.32	5	9
Hexachlorobutadiene	87-68-3	Soil/Solid	8270C	0.035	0.33	mg/kg	--	25	6	37
Hexachlorocyclopentadiene	77-47-4	Soil/Solid	8270C	0.030	0.33	mg/kg	--	4.4	2	6
Hexachloroethane	67-72-1	Soil/Solid	8270C	0.018	0.33	mg/kg	--	0.050	--	--
Indeno (1,2,3-cd) pyrene	193-39-5	Soil/Solid	8270C	0.042	0.33	mg/kg	--	10.2 T	2 T	3 T
Isophorone	78-59-1	Soil/Solid	8270C	0.018	0.33	mg/kg	--	0.16	--	--
Naphthalene	91-20-3	Soil/Solid	8270C	0.015	0.33	mg/kg	--	7.5	10	28
Nitrobenzene	98-95-3	Soil/Solid	8270C	0.014	0.33	mg/kg	--	--	--	--
N-Nitrosodimethylamine	62-75-9	Soil/Solid	8270C	0.028	0.33	mg/kg	--	0.82	--	--
N-Nitrosodi-n-propylamine	621-64-7	Soil/Solid	8270C	0.014	0.33	mg/kg	--	--	0.7	1.2
N-Nitrosodiphenylamine ***	86-30-6	Soil/Solid	8270C	0.045	0.33	mg/kg	--	0.88	1950	3720
Diphenylamine ***	122-39-4	Soil/Solid	8270C	--	--	--	--	--	--	--
Pentachlorophenol	87-86-5	Soil/Solid	8270C	0.081	0.67	mg/kg	--	0.034	80	120
Phenanthrene	85-01-8	Soil/Solid	8270C	0.026	0.33	mg/kg	--	--	--	--
Phenol	108-95-2	Soil/Solid	8270C	0.027	0.67	mg/kg	--	7.8	1500	20203
Pyrene	129-00-0	Soil/Solid	8270C	0.046	0.33	mg/kg	--	272	890	5800
2,4-Dinitrotoluene (DNT)	121-14-2	Soil/Solid	8270C	0.063	3.0	mg/kg	--	0.001	50	355
2,6-Dinitrotoluene (DNT)	606-20-2	Soil/Solid	8270C	0.13	3.0	mg/kg	--	0.001	25	175
SemiVolatile Organics										
1,2,4-Trichlorobenzene	120-82-1	Water/Liquid	8270C	0.28	10	ug/L	--	--	--	--
1,2-Dichlorobenzene	95-50-1	Water/Liquid	8270C	0.21	10	ug/L	600	--	--	--
1,2-Diphenylhydrazine as Azobenzene	103-33-3	Water/Liquid	8270C	0.20	10	ug/L	--	--	--	--
1,3-Dichlorobenzene	541-73-1	Water/Liquid	8270C	0.21	10	ug/L	--	--	--	--
1,4-Dichlorobenzene	106-46-7	Water/Liquid	8270C	0.18	10	ug/L	10	--	--	--
2,3,4,6-Tetrachlorophenol	58-90-2	Water/Liquid	8270C	1.0	10	ug/L	--	--	--	--
2,4,5-Trichlorophenol	95-95-4	Water/Liquid	8270C	0.85	10	ug/L	--	--	--	--
2,4,6-Trichlorophenol	88-06-2	Water/Liquid	8270C	0.89	10	ug/L	30	--	--	--
2,4-Dichlorophenol	120-83-2	Water/Liquid	8270C	0.78	10	ug/L	20	--	--	--
2,4-Dimethylphenol	105-67-9	Water/Liquid	8270C	0.78	10	ug/L	100	--	--	--
2,4-Dinitrophenol	51-28-5	Water/Liquid	8270C	0.50	10	ug/L	10	--	--	--
2,4-Dinitrotoluene	121-14-2	Water/Liquid	8270C	0.49	10	ug/L	0.5 (2)	--	--	--
2,6-Dichlorophenol	87-65-0	Water/Liquid	8270C	0.78	10	ug/L	--	--	--	--
2,6-Dinitrotoluene	606-20-2	Water/Liquid	8270C	0.39	10	ug/L	0.5 (2)	--	--	--
2-Chloronaphthalene	91-58-7	Water/Liquid	8270C	0.20	10	ug/L	--	--	--	--
2-Chlorophenol	95-57-8	Water/Liquid	8270C	0.66	10	ug/L	30	--	--	--
2-Methylnaphthalene	91-57-6	Water/Liquid	8270C	0.32	10	ug/L	--	--	--	--
2-Methylphenol	95-48-7	Water/Liquid	8270C	0.77	10	ug/L	30	--	--	--
2-Nitroaniline	88-74-4	Water/Liquid	8270C	0.92	10	ug/L	--	--	--	--
2-Nitrophenol	88-75-5	Water/Liquid	8270C	1.0	10	ug/L	--	--	--	--
3,3'-Dichlorobenzidine	91-94-1	Water/Liquid	8270C	7.1	25	ug/L	0.8	--	--	--
3-Nitroaniline	99-09-2	Water/Liquid	8270C	0.95	10	ug/L	--	--	--	--
4,6-Dinitro-2-methylphenol	534-52-1	Water/Liquid	8270C	0.90	10	ug/L	--	--	--	--
4-Bromophenyl phenyl ether	101-55-3	Water/Liquid	8270C	0.19	10	ug/L	--	--	--	--
4-Chloro-3-methylphenol	59-50-7	Water/Liquid	8270C	0.79	10	ug/L	--	--	--	--
4-Chloroaniline	106-47-8	Water/Liquid	8270C	1.0	10	ug/L	--	--	--	--
4-Chlorophenol	106-48-9	Water/Liquid	8270C	NA	NA	ug/L	--	--	--	--
4-Chlorophenyl phenyl ether	7005-72-3	Water/Liquid	8270C	0.15	10	ug/L	--	--	--	--
4-Methylphenol	106-44-5	Water/Liquid	8270C	0.82	10	ug/L	3	--	--	--
4-Nitroaniline	100-01-6	Water/Liquid	8270C	0.63	10	ug/L	--	--	--	--
4-Nitrophenol	100-02-7	Water/Liquid	8270C	1.2	10	ug/L	--	--	--	--
Acenaphthene	83-32-9	Water/Liquid	8270C	0.15	10	ug/L	400	--	--	--
Acenaphthylene	208-96-8	Water/Liquid	8270C	0.17	10	ug/L	--	--	--	--
Aniline	62-53-3	Water/Liquid	8270C	0.97	10	ug/L	--	--	--	--
Anthracene	120-12-7	Water/Liquid	8270C	0.19	10	ug/L	2000	--	--	--
Benzidine	92-87-5	Water/Liquid	8270C	23	100	ug/L	--	--	--	--
Benzo (a) anthracene	56-55-3	Water/Liquid	8270C	0.18	10	ug/L	--	--	--	--
Benzo (a) pyrene	50-32-8	Water/Liquid	8270C	0.22	10	ug/L	--	--	--	--
Benzo (b) fluoranthene	205-99-2	Water/Liquid	8270C	0.18	10	ug/L	--	--	--	--
Benzo (g,h,i) perylene	191-24-2	Water/Liquid	8270C	0.24	10	ug/L	--	--	--	--
Benzo (k) fluoranthene	207-08-9	Water/Liquid	8270C	0.21	10	ug/L	--	--	--	--
Benzoic acid	65-85-0	Water/Liquid	8270C	0.75	10	ug/L	30000	--	--	--
Benzyl alcohol	100-51-6	Water/Liquid	8270C	0.66	10	ug/L	--	--	--	--
Bis(2-chloroethoxy)methane	111-91-1	Water/Liquid	8270C	0.21	10	ug/L	--	--	--	--

P:\Mpls\23 MN\19\2319805 UMore park environmental\WorkFiles\Phase II Investigation WO#1 and #6\Phase II Work Plan\SSI_RI Work Plan\SAP\V2.0\Part 2-QAPP\Tables\Table 1

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [3]	Minnesota Tier SLV [4]	Minnesota SRV [5]	Minnesota Tier II Industrial SRV [6]
Bis(2-chloroethyl)ether	111-44-4	Water/Liquid	8270C	0.21	10	ug/L	0.3	--	--	--
Bis(2-chloroisopropyl)ether	39638-32-9	Water/Liquid	8270C	0.14	10	ug/L	--	--	--	--
Bis(2-ethylhexyl)phthalate	117-81-7	Water/Liquid	8270C	0.45	10	ug/L	20 (1)	--	--	--
Butyl benzyl phthalate	85-68-7	Water/Liquid	8270C	0.33	10	ug/L	100	--	--	--
Carbazole	86-74-8	Water/Liquid	8270C	0.24	10	ug/L	--	--	--	--
Chrysene	218-01-9	Water/Liquid	8270C	0.15	10	ug/L	--	--	--	--
Dibenz (a,h) anthracene	53-70-3	Water/Liquid	8270C	0.25	10	ug/L	--	--	--	--
Dibenzofuran	132-64-9	Water/Liquid	8270C	0.27	10	ug/L	--	--	--	--
Diethyl phthalate	84-66-2	Water/Liquid	8270C	0.32	10	ug/L	6000	--	--	--
Dimethyl phthalate	131-11-3	Water/Liquid	8270C	0.26	10	ug/L	70000	--	--	--
Di-n-butyl phthalate	84-74-2	Water/Liquid	8270C	0.33	10	ug/L	700	--	--	--
Di-n-octyl phthalate	117-84-0	Water/Liquid	8270C	0.42	10	ug/L	--	--	--	--
Fluoranthene	206-44-0	Water/Liquid	8270C	0.23	10	ug/L	300	--	--	--
Fluorene	86-73-7	Water/Liquid	8270C	0.16	10	ug/L	300	--	--	--
Hexachlorobenzene	118-74-1	Water/Liquid	8270C	0.15	10	ug/L	0.2	--	--	--
Hexachlorobutadiene	87-68-3	Water/Liquid	8270C	0.34	10	ug/L	1	--	--	--
Hexachlorocyclopentadiene	77-47-4	Water/Liquid	8270C	0.22	10	ug/L	--	--	--	--
Hexachloroethane	67-72-1	Water/Liquid	8270C	0.30	10	ug/L	--	--	--	--
Indeno (1,2,3-cd) pyrene	193-39-5	Water/Liquid	8270C	0.19	10	ug/L	--	--	--	--
Isophorone	78-59-1	Water/Liquid	8270C	0.23	10	ug/L	100	--	--	--
Naphthalene	91-20-3	Water/Liquid	8270C	0.19	10	ug/L	300	--	--	--
Nitrobenzene	98-95-3	Water/Liquid	8270C	0.26	10	ug/L	--	--	--	--
N-Nitrosodimethylamine	62-75-9	Water/Liquid	8270C	0.30	10	ug/L	--	--	--	--
N-Nitrosodi-n-propylamine	621-64-7	Water/Liquid	8270C	0.28	10	ug/L	--	--	--	--
N-Nitrosodiphenylamine ***	86-30-6	Water/Liquid	8270C	0.27	10	ug/L	70	--	--	--
Diphenylamine ***	122-39-4	Water/Liquid	8270C	--	--	--	--	--	--	--
Pentachlorophenol	87-86-5	Water/Liquid	8270C	0.99	10	ug/L	1 (3)	--	--	--
Phenanthrene	85-01-8	Water/Liquid	8270C	0.13	10	ug/L	--	--	--	--
Phenol	108-95-2	Water/Liquid	8270C	0.59	10	ug/L	4000	--	--	--
Pyrene	129-00-0	Water/Liquid	8270C	0.24	10	ug/L	200	--	--	--

Notes:
M - the values with this notation indicate the limit is for all combined isomers of this compound
T - the values with this notation represent the limit for the total carcinogenic PAHs as BaP
C - Mercury as mercuric chloride
(TA) - Legend Technical Services, Inc. will subcontract this analysis to Test America, West Sacramento, California.
(Braun) - Legend Technical Services, Inc. will subcontract this analysis to Braun Intertec, Minneapolis, MN.
(1) Not a HRL but a Health Based Value (HBV)
(2) (SRL)-Specific Risk Level (water concentration which corresponds to a riskof 1E-5.
(3) Not a HRL but an EPA Maximum Contaminant Level (MCL).
(4) Value is representative of the lowest exposure duration published in the 2008 Health Risk Limits.
(5) Value represents the criteria for Chromium, hexavalent.
(6) Set at short-term HRL.
(7) Not a HRL, but a Risk Assessment Advice (RAA).
(8) Value represents the criteria for Chromium, Trivalent.
[3] - Minnesota Department of Health, Health Risk Limit (HRL) unless noted otherwise.
[4] - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Soil Leaching Value (SLV)
[5] - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Soil Reference Value (SRV)
[6] - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Tier II Industrial SRV.

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September 25, 2009

Ms. Kelly Neppl
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0904026
RE: 23190B05.07

Enclosed are the results of analyses for samples received by the laboratory on 09/10/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of this report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

Terri Olson
Client Manager II
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Erica Nastrom
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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC5-GP3	0904026-01	Water	09/09/09 08:30	09/10/09 10:47
SOC5-GP11	0904026-02	Water	09/09/09 09:00	09/10/09 10:47
SOC4-GP1_0.5-2	0904026-03	Soil	09/09/09 15:15	09/10/09 10:47
SOC4-GP6_1-2	0904026-04	Soil	09/09/09 17:20	09/10/09 10:47

Shipping Container Information

Default Cooler Temperature (°C): 7.8

Received on ice: Yes
Temperature blank was present
Received on ice pack: No
Received on melt water: No
Ambient: No
Acceptable (IH/ISO only): No
Custody seals: No

Case Narrative:

MN Certification does not apply to dichlorofluoromethane, tetrahydrofuran, and 1,1,2-trichlorotrifluoroethane in the 8260B analysis or to carbazole in the 8270C analysis.

Beryllium recoveries in the MS/MSD samples for 6020 batch B9I2003 were below laboratory control limits. Recoveries in the LCS/LCSD samples and the corresponding RPDs were within limits. The MS/MSD source sample was sample not associated with this work order.

Nickel and zinc recoveries in the MS sample and antimony, chromium, nickel, selenium, silver, thallium and zinc recoveries in the MSD sample for 6010 batch B9I2001 were below laboratory control limits. Recoveries in the LCS/LCSD samples and the corresponding RPDs were within limits. The MS/MSD source sample was not associated with this work order.

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

DISSOLVED METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP3 (0904026-01) Water Sampled: 09/09/09 08:30 Received: 09/10/09 10:47										
Antimony	<0.046	0.50	0.046	ug/L	1	B9I2003	09/20/09	09/21/09	EPA 6020 (Dissolved)	
Arsenic	<10	10	2.0	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B (Dissolved)	
Beryllium	<0.027	0.50	0.027	ug/L	1	B9I2003	09/20/09	09/21/09	EPA 6020 (Dissolved)	
Cadmium	<1.0	1.0	0.099	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B (Dissolved)	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	
Copper	<20	20	1.4	ug/L	1	"	"	"	"	
Lead	<3.0	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B9I1707	09/17/09	09/17/09	EPA 7470A (Dissolved)	
Nickel	**28**	5.0	0.28	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B (Dissolved)	
Selenium	<20	20	2.2	ug/L	1	"	"	"	"	
Silver	<5.0	5.0	0.18	ug/L	1	"	"	"	"	
Thallium	<0.0081	0.50	0.0081	ug/L	1	B9I2003	09/20/09	09/21/09	EPA 6020 (Dissolved)	
Zinc	<20	20	4.4	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B (Dissolved)	
SOC5-GP11 (0904026-02) Water Sampled: 09/09/09 09:00 Received: 09/10/09 10:47										
Antimony	**0.15**	0.50	0.046	ug/L	1	B9I2003	09/20/09	09/21/09	EPA 6020 (Dissolved)	J
Arsenic	<10	10	2.0	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B (Dissolved)	
Beryllium	<0.027	0.50	0.027	ug/L	1	B9I2003	09/20/09	09/21/09	EPA 6020 (Dissolved)	
Cadmium	<1.0	1.0	0.099	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B (Dissolved)	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	
Copper	<20	20	1.4	ug/L	1	"	"	"	"	
Lead	<3.0	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B9I1707	09/17/09	09/17/09	EPA 7470A (Dissolved)	
Nickel	<5.0	5.0	0.28	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B (Dissolved)	
Selenium	<20	20	2.2	ug/L	1	"	"	"	"	
Silver	<5.0	5.0	0.18	ug/L	1	"	"	"	"	
Thallium	<0.0081	0.50	0.0081	ug/L	1	B9I2003	09/20/09	09/21/09	EPA 6020 (Dissolved)	
Zinc	<20	20	4.4	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B (Dissolved)	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP1_0.5-2 (0904026-03) Soil Sampled: 09/09/09 15:15 Received: 09/10/09 10:47										
Antimony	<0.59	0.59	0.0065	mg/kg dry	1	B9I2001	09/20/09	09/21/09	EPA 6010B	
Arsenic	**5.5**	0.59	0.12	mg/kg dry	1	"	"	"	"	
Beryllium	<0.29	0.29	0.013	mg/kg dry	1	"	"	"	"	
Cadmium	<0.29	0.29	0.029	mg/kg dry	1	"	"	"	"	
Chromium	**13**	0.59	0.014	mg/kg dry	1	"	"	"	"	
Copper	**8.3**	1.2	0.082	mg/kg dry	1	"	"	"	"	
Lead	**9.6**	1.2	0.040	mg/kg dry	1	"	"	"	"	
Mercury	<0.12	0.12	0.0021	mg/kg dry	1	B9I1710	09/17/09	09/21/09	EPA 7471A	
Nickel	**11**	0.59	0.016	mg/kg dry	1	B9I2001	09/20/09	09/21/09	EPA 6010B	
Selenium	<1.2	1.2	0.13	mg/kg dry	1	"	"	"	"	
Silver	<0.29	0.29	0.011	mg/kg dry	1	"	"	"	"	
Thallium	<2.4	2.4	0.15	mg/kg dry	1	"	"	"	"	
Zinc	<1.2	1.2	0.26	mg/kg dry	1	"	"	"	"	
SOC4-GP6_1-2 (0904026-04) Soil Sampled: 09/09/09 17:20 Received: 09/10/09 10:47										
Antimony	<0.51	0.51	0.0056	mg/kg dry	1	B9I2001	09/20/09	09/21/09	EPA 6010B	
Arsenic	**1.2**	0.51	0.10	mg/kg dry	1	"	"	"	"	
Beryllium	<0.26	0.26	0.011	mg/kg dry	1	"	"	"	"	
Cadmium	<0.26	0.26	0.026	mg/kg dry	1	"	"	"	"	
Chromium	**5.4**	0.51	0.012	mg/kg dry	1	"	"	"	"	
Copper	**6.0**	1.0	0.071	mg/kg dry	1	"	"	"	"	
Lead	**1.1**	1.0	0.035	mg/kg dry	1	"	"	"	"	
Mercury	<0.10	0.10	0.0018	mg/kg dry	1	B9I1710	09/17/09	09/21/09	EPA 7471A	
Nickel	**6.1**	0.51	0.014	mg/kg dry	1	B9I2001	09/20/09	09/21/09	EPA 6010B	
Selenium	<1.0	1.0	0.11	mg/kg dry	1	"	"	"	"	
Silver	<0.26	0.26	0.0092	mg/kg dry	1	"	"	"	"	
Thallium	<2.0	2.0	0.13	mg/kg dry	1	"	"	"	"	
Zinc	<1.0	1.0	0.22	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

PERCENT SOLIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP1_0.5-2 (0904026-03) Soil Sampled: 09/09/09 15:15 Received: 09/10/09 10:47										
% Solids	**85**			%	1	B9I2103	09/21/09	09/22/09	% calculation	
SOC4-GP6_1-2 (0904026-04) Soil Sampled: 09/09/09 17:20 Received: 09/10/09 10:47										
% Solids	**98**			%	1	B9I2103	09/21/09	09/22/09	% calculation	

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Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP3 (0904026-01) Water Sampled: 09/09/09 08:30 Received: 09/10/09 10:47										
1,2,4-Trichlorobenzene	<0.18	9.3	0.18	ug/L	1	B9I1503	09/15/09	09/15/09	EPA 8270C	
1,2-Dichlorobenzene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.56	9.3	0.56	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	9.3	0.74	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<1.5	9.3	1.5	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<0.93	9.3	0.93	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<0.31	9.3	0.31	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
2-Chlorophenol	<0.42	9.3	0.42	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<0.61	9.3	0.61	ug/L	1	"	"	"	"	
2-Methylphenol	<0.58	9.3	0.58	ug/L	1	"	"	"	"	
2-Nitroaniline	<0.67	9.3	0.67	ug/L	1	"	"	"	"	
2-Nitrophenol	<0.83	9.3	0.83	ug/L	1	"	"	"	"	
3,3´-Dichlorobenzidine	<6.8	23	6.8	ug/L	1	"	"	"	"	
3-Nitroaniline	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.60	9.3	0.60	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.51	9.3	0.51	ug/L	1	"	"	"	"	
4-Chloroaniline	<2.1	9.3	2.1	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
4-Methylphenol	<0.73	9.3	0.73	ug/L	1	"	"	"	"	
4-Nitroaniline	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
4-Nitrophenol	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Acenaphthene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
Acenaphthylene	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
Aniline	<2.0	9.3	2.0	ug/L	1	"	"	"	"	
Anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzidine	<17	93	17	ug/L	1	"	"	"	"	
Benzo (a) anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzo (a) pyrene	<0.27	9.3	0.27	ug/L	1	"	"	"	"	
Benzo (b) fluoranthene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP3 (0904026-01) Water Sampled: 09/09/09 08:30 Received: 09/10/09 10:47										
Benzo (k) fluoranthene	<0.29	9.3	0.29	ug/L	1	B9I1503	09/15/09	09/15/09	EPA 8270C	
Benzoic acid	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Benzyl alcohol	<0.50	9.3	0.50	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.17	9.3	0.17	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.18	9.3	0.18	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.40	9.3	0.40	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Carbazole	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Chrysene	<0.25	9.3	0.25	ug/L	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dibenzofuran	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Diethyl phthalate	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dimethyl phthalate	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<0.35	9.3	0.35	ug/L	1	"	"	"	"	
Fluoranthene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Fluorene	<0.37	9.3	0.37	ug/L	1	"	"	"	"	
Hexachlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Hexachloroethane	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Isophorone	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Naphthalene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Nitrobenzene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<0.88	9.3	0.88	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Pentachlorophenol	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
Phenanthrene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Phenol	<0.53	9.3	0.53	ug/L	1	"	"	"	"	
Pyrene	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*64.3*			*48.5-114 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*62.2*			*41.7-98.4 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*42.4*			*30-93.5 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*69.6*			*47.4-97.8 %*		"	"	"	"	
Surrogate: Phenol-d6	*34.0*			*30-91.5 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*64.1*			*30-108 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP11 (0904026-02) Water Sampled: 09/09/09 09:00 Received: 09/10/09 10:47										
1,2,4-Trichlorobenzene	<0.18	9.3	0.18	ug/L	1	B9I1503	09/15/09	09/15/09	EPA 8270C	
1,2-Dichlorobenzene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.56	9.3	0.56	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	9.3	0.74	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<1.5	9.3	1.5	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<0.93	9.3	0.93	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<0.31	9.3	0.31	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
2-Chlorophenol	<0.42	9.3	0.42	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<0.61	9.3	0.61	ug/L	1	"	"	"	"	
2-Methylphenol	<0.58	9.3	0.58	ug/L	1	"	"	"	"	
2-Nitroaniline	<0.67	9.3	0.67	ug/L	1	"	"	"	"	
2-Nitrophenol	<0.83	9.3	0.83	ug/L	1	"	"	"	"	
3,3´-Dichlorobenzidine	<6.8	23	6.8	ug/L	1	"	"	"	"	
3-Nitroaniline	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.60	9.3	0.60	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.51	9.3	0.51	ug/L	1	"	"	"	"	
4-Chloroaniline	<2.1	9.3	2.1	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
4-Methylphenol	<0.73	9.3	0.73	ug/L	1	"	"	"	"	
4-Nitroaniline	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
4-Nitrophenol	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Acenaphthene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
Acenaphthylene	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
Aniline	<2.0	9.3	2.0	ug/L	1	"	"	"	"	
Anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzidine	<17	93	17	ug/L	1	"	"	"	"	
Benzo (a) anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzo (a) pyrene	<0.27	9.3	0.27	ug/L	1	"	"	"	"	
Benzo (b) fluoranthene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP11 (0904026-02) Water Sampled: 09/09/09 09:00 Received: 09/10/09 10:47										
Benzo (k) fluoranthene	<0.29	9.3	0.29	ug/L	1	B9I1503	09/15/09	09/15/09	EPA 8270C	
Benzoic acid	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Benzyl alcohol	<0.50	9.3	0.50	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.17	9.3	0.17	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.18	9.3	0.18	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.40	9.3	0.40	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Carbazole	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Chrysene	<0.25	9.3	0.25	ug/L	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dibenzofuran	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Diethyl phthalate	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dimethyl phthalate	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<0.35	9.3	0.35	ug/L	1	"	"	"	"	
Fluoranthene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Fluorene	<0.37	9.3	0.37	ug/L	1	"	"	"	"	
Hexachlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Hexachloroethane	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Isophorone	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Naphthalene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Nitrobenzene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<0.88	9.3	0.88	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Pentachlorophenol	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
Phenanthrene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Phenol	<0.53	9.3	0.53	ug/L	1	"	"	"	"	
Pyrene	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*78.8*			*48.5-114 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*87.2*			*41.7-98.4 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*49.2*			*30-93.5 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*85.1*			*47.4-97.8 %*		"	"	"	"	
Surrogate: Phenol-d6	*39.5*			*30-91.5 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*80.2*			*30-108 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP1_0.5-2 (0904026-03) Soil Sampled: 09/09/09 15:15 Received: 09/10/09 10:47										
1,2,4-Trichlorobenzene	<0.032	0.39	0.032	mg/kg dry	1	B9I1703	09/17/09	09/18/09	EPA 8270C	
1,2-Dichlorobenzene	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.028	0.39	0.028	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.045	0.79	0.045	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.028	0.79	0.028	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.041	0.79	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.041	0.79	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.79	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.068	0.79	0.068	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.051	0.79	0.051	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.39	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.39	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.045	0.79	0.045	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.041	0.79	0.041	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.042	0.79	0.042	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.46	1.9	0.46	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.087	0.79	0.087	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.39	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.047	0.79	0.047	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.79	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.032	0.79	0.032	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.79	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
Aniline	<0.11	0.79	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
Benzidine	<0.85	2.9	0.85	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.032	0.39	0.032	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.032	0.39	0.032	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.040	0.39	0.040	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.035	0.39	0.035	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP1_0.5-2 (0904026-03) Soil Sampled: 09/09/09 15:15 Received: 09/10/09 10:47										
Benzo (k) fluoranthene	<0.036	0.39	0.036	mg/kg dry	1	B9I1703	09/17/09	09/18/09	EPA 8270C	
Benzoic acid	<0.068	0.39	0.068	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.79	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.028	0.39	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.026	0.39	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
Carbazole	<0.026	0.39	0.026	mg/kg dry	1	"	"	"	"	
Chrysene	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.040	0.39	0.040	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.022	0.39	0.022	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.018	0.39	0.018	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.044	0.39	0.044	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.028	0.39	0.028	mg/kg dry	1	"	"	"	"	
Fluorene	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.019	0.39	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.048	0.39	0.048	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.038	0.39	0.038	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.39	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.034	0.39	0.034	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.035	0.39	0.035	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.038	0.39	0.038	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.79	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.022	0.39	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.067	0.79	0.067	mg/kg dry	1	"	"	"	"	
Pyrene	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*92.1*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*70.9*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*73.7*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*77.7*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*83.7*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*73.3*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP6_1-2 (0904026-04) Soil Sampled: 09/09/09 17:20 Received: 09/10/09 10:47										
1,2,4-Trichlorobenzene	<0.028	0.34	0.028	mg/kg dry	1	B9I1804	09/18/09	09/18/09	EPA 8270C	
1,2-Dichlorobenzene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.039	0.68	0.039	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.024	0.68	0.024	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.036	0.68	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.036	0.68	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.092	0.68	0.092	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.059	0.68	0.059	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.044	0.68	0.044	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.039	0.68	0.039	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.036	0.68	0.036	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.037	0.68	0.037	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.40	1.6	0.40	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.076	0.68	0.076	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.017	0.34	0.017	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.041	0.68	0.041	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.11	0.68	0.11	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.028	0.68	0.028	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.10	0.68	0.10	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Aniline	<0.092	0.68	0.092	mg/kg dry	1	"	"	"	"	
Anthracene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Benzidine	<0.73	2.6	0.73	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP6_1-2 (0904026-04) Soil Sampled: 09/09/09 17:20 Received: 09/10/09 10:47										
Benzo (k) fluoranthene	<0.032	0.34	0.032	mg/kg dry	1	B9I1804	09/18/09	09/18/09	EPA 8270C	
Benzoic acid	<0.059	0.34	0.059	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.12	0.68	0.12	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
Carbazole	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Chrysene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.015	0.34	0.015	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.038	0.34	0.038	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Fluorene	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.016	0.34	0.016	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.042	0.34	0.042	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
Isophorone	<0.017	0.34	0.017	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.030	0.34	0.030	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.098	0.68	0.098	mg/kg dry	1	"	"	"	"	
Phenanthrene	**0.051**	0.34	0.019	mg/kg dry	1	"	"	"	"	J
Phenol	<0.058	0.68	0.058	mg/kg dry	1	"	"	"	"	
Pyrene	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*75.4*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*79.1*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*76.2*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*75.9*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*76.5*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*99.8*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP11 (0904026-02) Water Sampled: 09/09/09 09:00 Received: 09/10/09 10:47										
1,1,1,2-Tetrachloroethane	<0.28	1.0	0.28	ug/L	1	B9I1810	09/18/09	09/19/09	EPA 8260B	
1,1,1-Trichloroethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.28	1.0	0.28	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<0.11	1.0	0.11	ug/L	1	"	"	"	"	
1,1-Dichloroethene	<0.12	1.0	0.12	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.47	5.0	0.47	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	2.5	0.24	ug/L	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.32	5.0	0.32	ug/L	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	5.0	0.60	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
2-Butanone	<0.67	20	0.67	ug/L	1	"	"	"	"	
2-Chlorotoluene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
4-Chlorotoluene	<0.14	1.0	0.14	ug/L	1	"	"	"	"	
Acetone	<2.8	20	2.8	ug/L	1	"	"	"	"	
Allyl chloride	<0.76	5.0	0.76	ug/L	1	"	"	"	"	
Benzene	<0.093	1.0	0.093	ug/L	1	"	"	"	"	
Bromobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Bromochloromethane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Bromodichloromethane	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Bromoform	<0.50	5.0	0.50	ug/L	1	"	"	"	"	
Bromomethane	<0.95	5.0	0.95	ug/L	1	"	"	"	"	
Carbon tetrachloride	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Chlorobenzene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
Chloroethane	<0.46	2.5	0.46	ug/L	1	"	"	"	"	
Chloroform	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Chloromethane	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-GP11 (0904026-02) Water Sampled: 09/09/09 09:00 Received: 09/10/09 10:47										
cis-1,3-Dichloropropene	<0.16	1.0	0.16	ug/L	1	B9I1810	09/18/09	09/19/09	EPA 8260B	
Dibromochloromethane	<0.50	2.5	0.50	ug/L	1	"	"	"	"	
Dibromomethane	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<0.31	1.0	0.31	ug/L	1	"	"	"	"	
Ethyl ether	<0.53	5.0	0.53	ug/L	1	"	"	"	"	
Ethylbenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.76	10	0.76	ug/L	1	"	"	"	"	
Isopropylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
m,p-Xylene	<0.42	2.0	0.42	ug/L	1	"	"	"	"	
Methyl isobutyl ketone	<1.1	5.0	1.1	ug/L	1	"	"	"	"	
Methyl tert-butyl ether	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
Methylene chloride	<0.65	5.0	0.65	ug/L	1	"	"	"	"	
Naphthalene	<0.40	5.0	0.40	ug/L	1	"	"	"	"	
n-Butylbenzene	<0.32	2.5	0.32	ug/L	1	"	"	"	"	
n-Propylbenzene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
o-Xylene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
sec-Butylbenzene	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Styrene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
tert-Butylbenzene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Tetrachloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Tetrahydrofuran	<0.77	20	0.77	ug/L	1	"	"	"	"	
Toluene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.29	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Vinyl chloride	<0.087	1.0	0.087	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*113*			*80-121 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*106*			*79.9-121 %*		"	"	"	"	
Surrogate: Toluene-d8	*103*			*80-120 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1707 - EPA 245.1/7470A Digestion											
Blank (B9I1707-BLK1)					Prepared & Analyzed: 09/17/09						
Mercury	< 0.20	0.20	0.018	ug/L							
LCS (B9I1707-BS1)					Prepared & Analyzed: 09/17/09						
Mercury	1.98	0.20	0.018	ug/L	2.00		99.0	80-120			
LCS Dup (B9I1707-BSD1)					Prepared & Analyzed: 09/17/09						
Mercury	1.97	0.20	0.018	ug/L	2.00		98.5	80-120	0.506	20	
Matrix Spike (B9I1707-MS1)		**Source: 0904026-01**			Prepared & Analyzed: 09/17/09						
Mercury	2.03	0.20	0.018	ug/L	2.00	<0.20	102	75-125			
Matrix Spike Dup (B9I1707-MSD1)		**Source: 0904026-01**			Prepared & Analyzed: 09/17/09						
Mercury	1.82	0.20	0.018	ug/L	2.00	<0.20	91.0	75-125	10.9	20	
Batch B9I2003 - EPA 200.8 Digestion											
Blank (B9I2003-BLK1)					Prepared: 09/20/09 Analyzed: 09/23/09						
Antimony	< 0.046	0.50	0.046	ug/L							
Beryllium	< 0.027	0.50	0.027	ug/L							
Thallium	< 0.0081	0.50	0.0081	ug/L							
LCS (B9I2003-BS1)					Prepared: 09/20/09 Analyzed: 09/24/09						
Antimony	23.1	0.50	0.046	ug/L	20.0		116	80-120			
Beryllium	22.4	0.50	0.027	ug/L	20.0		112	80-120			
Thallium	20.6	0.50	0.0081	ug/L	20.0		103	80-120			
LCS Dup (B9I2003-BSD1)					Prepared: 09/20/09 Analyzed: 09/23/09						
Antimony	22.1	0.50	0.046	ug/L	20.0		111	80-120	4.30	20	
Beryllium	21.9	0.50	0.027	ug/L	20.0		109	80-120	2.42	20	
Thallium	21.5	0.50	0.0081	ug/L	20.0		108	80-120	4.58	20	
Matrix Spike (B9I2003-MS1)		**Source: 0903921-02**			Prepared: 09/20/09 Analyzed: 09/23/09						
Antimony	15.7	0.50	0.046	ug/L	20.0	0.542	75.8	75-125			
Beryllium	4.78	0.50	0.027	ug/L	20.0	<0.50	23.9	75-125			M2
Thallium	21.7	0.50	0.0081	ug/L	20.0	<0.50	108	75-125			
Matrix Spike Dup (B9I2003-MSD1)		**Source: 0903921-02**			Prepared: 09/20/09 Analyzed: 09/23/09						
Antimony	19.0	0.50	0.046	ug/L	20.0	0.542	92.2	75-125	19.0	20	
Beryllium	4.96	0.50	0.027	ug/L	20.0	<0.50	24.8	75-125	3.76	20	M2
Thallium	21.7	0.50	0.0081	ug/L	20.0	<0.50	108	75-125	0.323	20	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2004 - EPA 200.7/3005A Digestion											
Blank (B9I2004-BLK1)					Prepared & Analyzed: 09/20/09						
Arsenic	< 10	10	2.0	ug/L							
Cadmium	< 1.0	1.0	0.099	ug/L							
Chromium	< 10	10	0.24	ug/L							
Copper	< 20	20	1.4	ug/L							
Lead	< 3.0	3.0	0.68	ug/L							
Nickel	< 5.0	5.0	0.28	ug/L							
Selenium	< 20	20	2.2	ug/L							
Silver	< 5.0	5.0	0.18	ug/L							
Zinc	< 20	20	4.4	ug/L							
LCS (B9I2004-BS1)					Prepared: 09/20/09		Analyzed: 09/21/09				
Arsenic	332	10	2.0	ug/L	399		83.2	80-120			
Cadmium	353	1.0	0.099	ug/L	399		88.4	80-120			
Chromium	366	10	0.24	ug/L	399		91.8	80-120			
Copper	338	20	1.4	ug/L	399		84.7	80-120			
Lead	357	3.0	0.68	ug/L	399		89.4	80-120			
Nickel	360	5.0	0.28	ug/L	399		90.3	80-120			
Selenium	330	20	2.2	ug/L	399		82.8	80-120			
Silver	34.1	5.0	0.18	ug/L	39.9		85.4	80-120			
Zinc	343	20	4.4	ug/L	399		86.0	80-120			
LCS Dup (B9I2004-BSD1)					Prepared: 09/20/09		Analyzed: 09/21/09				
Arsenic	338	10	2.0	ug/L	399		84.8	80-120	1.84	20	
Cadmium	362	1.0	0.099	ug/L	399		90.7	80-120	2.59	20	
Chromium	367	10	0.24	ug/L	399		92.1	80-120	0.260	20	
Copper	340	20	1.4	ug/L	399		85.3	80-120	0.643	20	
Lead	368	3.0	0.68	ug/L	399		92.1	80-120	2.95	20	
Nickel	364	5.0	0.28	ug/L	399		91.3	80-120	1.01	20	
Selenium	333	20	2.2	ug/L	399		83.4	80-120	0.634	20	
Silver	33.8	5.0	0.18	ug/L	39.9		84.6	80-120	0.933	20	
Zinc	348	20	4.4	ug/L	399		87.2	80-120	1.31	20	
Matrix Spike (B9I2004-MS1)		**Source: 0904026-01**			Prepared: 09/20/09		Analyzed: 09/21/09				
Arsenic	343	10	2.0	ug/L	399	<10	86.0	75-125			
Cadmium	358	1.0	0.099	ug/L	399	<1.0	89.8	75-125			
Chromium	364	10	0.24	ug/L	399	<10	91.2	75-125			
Copper	343	20	1.4	ug/L	399	<20	85.9	75-125			
Lead	362	3.0	0.68	ug/L	399	<3.0	90.7	75-125			
Nickel	361	5.0	0.28	ug/L	399	28.1	83.5	75-125			
Selenium	338	20	2.2	ug/L	399	<20	84.6	75-125			
Silver	33.9	5.0	0.18	ug/L	39.9	<5.0	85.0	75-125			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2004 - EPA 200.7/3005A Digestion											
Matrix Spike (B9I2004-MS1)		**Source: 0904026-01**			Prepared: 09/20/09		Analyzed: 09/21/09				
Zinc	347	20	4.4	ug/L	399	<20	87.0	75-125			
Matrix Spike Dup (B9I2004-MSD1)		**Source: 0904026-01**			Prepared: 09/20/09		Analyzed: 09/21/09				
Arsenic	347	10	2.0	ug/L	399	<10	86.9	75-125	1.02	20	
Cadmium	358	1.0	0.099	ug/L	399	<1.0	89.6	75-125	0.192	20	
Chromium	361	10	0.24	ug/L	399	<10	90.4	75-125	0.798	20	
Copper	345	20	1.4	ug/L	399	<20	86.4	75-125	0.605	20	
Lead	361	3.0	0.68	ug/L	399	<3.0	90.4	75-125	0.319	20	
Nickel	362	5.0	0.28	ug/L	399	28.1	83.6	75-125	0.141	20	
Selenium	341	20	2.2	ug/L	399	<20	85.5	75-125	1.09	20	
Silver	33.8	5.0	0.18	ug/L	39.9	<5.0	84.8	75-125	0.148	20	
Zinc	366	20	4.4	ug/L	399	<20	91.7	75-125	5.18	20	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1710 - EPA 7471A											
Blank (B9I1710-BLK1)					Prepared: 09/17/09		Analyzed: 09/21/09				
Mercury	< 0.10	0.10	0.0018	mg/kg wet							
LCS (B9I1710-BS1)					Prepared: 09/17/09		Analyzed: 09/21/09				
Mercury	0.229	0.10	0.0018	mg/kg wet	0.200		114	80-120			
LCS Dup (B9I1710-BSD1)					Prepared: 09/17/09		Analyzed: 09/21/09				
Mercury	0.229	0.10	0.0018	mg/kg wet	0.200		114	80-120	0.00	20	
Matrix Spike (B9I1710-MS1)		**Source: 0904011-05**			Prepared: 09/17/09		Analyzed: 09/21/09				
Mercury	0.282	0.12	0.0022	mg/kg dry	0.241	<0.12	117	75-125			
Matrix Spike Dup (B9I1710-MSD1)		**Source: 0904011-05**			Prepared: 09/17/09		Analyzed: 09/21/09				
Mercury	0.282	0.12	0.0022	mg/kg dry	0.241	<0.12	117	75-125	0.00	20	
Batch B9I2001 - EPA 3050B											
Blank (B9I2001-BLK1)					Prepared: 09/20/09		Analyzed: 09/21/09				
Antimony	< 0.50	0.50	0.0055	mg/kg wet							
Arsenic	< 0.50	0.50	0.10	mg/kg wet							
Beryllium	< 0.25	0.25	0.011	mg/kg wet							
Cadmium	< 0.25	0.25	0.025	mg/kg wet							
Chromium	< 0.50	0.50	0.012	mg/kg wet							
Copper	< 1.0	1.0	0.070	mg/kg wet							
Lead	< 1.0	1.0	0.034	mg/kg wet							
Nickel	< 0.50	0.50	0.014	mg/kg wet							
Selenium	< 1.0	1.0	0.11	mg/kg wet							
Silver	< 0.25	0.25	0.0090	mg/kg wet							
Thallium	< 2.0	2.0	0.13	mg/kg wet							
Zinc	< 1.0	1.0	0.22	mg/kg wet							
LCS (B9I2001-BS1)					Prepared: 09/20/09		Analyzed: 09/21/09				
Antimony	36.9	0.50	0.0055	mg/kg wet	39.9		92.4	80-120			
Arsenic	36.5	0.50	0.10	mg/kg wet	39.9		91.4	80-120			
Beryllium	3.74	0.25	0.011	mg/kg wet	3.99		93.8	80-120			
Cadmium	38.8	0.25	0.025	mg/kg wet	39.9		97.3	80-120			
Chromium	38.4	0.50	0.012	mg/kg wet	39.9		96.2	80-120			
Copper	37.0	1.0	0.070	mg/kg wet	39.9		92.8	80-120			
Lead	39.1	1.0	0.034	mg/kg wet	39.9		97.9	80-120			
Nickel	38.3	0.50	0.014	mg/kg wet	39.9		96.1	80-120			
Selenium	35.6	1.0	0.11	mg/kg wet	39.9		89.1	80-120			
Silver	3.53	0.25	0.0090	mg/kg wet	3.99		88.4	80-120			
Thallium	37.3	2.0	0.13	mg/kg wet	39.9		93.4	80-120			
Zinc	37.7	1.0	0.22	mg/kg wet	39.9		94.5	80-120			

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2001 - EPA 3050B											
LCS Dup (B9I2001-BSD1)					Prepared: 09/20/09		Analyzed: 09/21/09				
Antimony	36.4	0.50	0.0055	mg/kg wet	39.9		91.2	80-120	1.34	20	
Arsenic	36.8	0.50	0.10	mg/kg wet	39.9		92.1	80-120	0.769	20	
Beryllium	3.76	0.25	0.011	mg/kg wet	3.99		94.3	80-120	0.517	20	
Cadmium	39.0	0.25	0.025	mg/kg wet	39.9		97.6	80-120	0.322	20	
Chromium	38.4	0.50	0.012	mg/kg wet	39.9		96.1	80-120	0.0964	20	
Copper	37.1	1.0	0.070	mg/kg wet	39.9		93.1	80-120	0.261	20	
Lead	39.1	1.0	0.034	mg/kg wet	39.9		97.9	80-120	0.00562	20	
Nickel	38.1	0.50	0.014	mg/kg wet	39.9		95.5	80-120	0.663	20	
Selenium	35.9	1.0	0.11	mg/kg wet	39.9		89.9	80-120	0.878	20	
Silver	3.54	0.25	0.0090	mg/kg wet	3.99		88.7	80-120	0.334	20	
Thallium	37.7	2.0	0.13	mg/kg wet	39.9		94.4	80-120	1.11	20	
Zinc	39.4	1.0	0.22	mg/kg wet	39.9		98.6	80-120	4.28	20	
Matrix Spike (B9I2001-MS1)		**Source: 0904080-05**			Prepared: 09/20/09		Analyzed: 09/21/09				
Antimony	38.4	0.62	0.0068	mg/kg dry	49.3	<0.62	78.0	75-125			
Arsenic	45.1	0.62	0.12	mg/kg dry	49.3	4.21	83.0	75-125			
Beryllium	4.80	0.31	0.014	mg/kg dry	4.93	0.600	85.3	75-125			
Cadmium	40.7	0.31	0.031	mg/kg dry	49.3	<0.31	82.6	75-125			
Chromium	75.8	0.62	0.015	mg/kg dry	49.3	35.7	81.5	75-125			
Copper	81.6	1.2	0.086	mg/kg dry	49.3	38.7	87.0	75-125			
Lead	50.4	1.2	0.042	mg/kg dry	49.3	9.14	83.7	75-125			
Nickel	68.5	0.62	0.017	mg/kg dry	49.3	34.5	69.1	75-125			M2
Selenium	37.7	1.2	0.14	mg/kg dry	49.3	<1.2	76.6	75-125			
Silver	3.82	0.31	0.011	mg/kg dry	4.93	<0.31	77.6	75-125			
Thallium	38.0	2.5	0.16	mg/kg dry	49.3	<2.5	77.2	75-125			
Zinc	17.3	1.2	0.27	mg/kg dry	49.3	<1.2	35.2	75-125			M2
Matrix Spike Dup (B9I2001-MSD1)		**Source: 0904080-05**			Prepared: 09/20/09		Analyzed: 09/21/09				
Antimony	36.5	0.62	0.0068	mg/kg dry	49.3	<0.62	74.1	75-125	5.09	20	M2
Arsenic	42.7	0.62	0.12	mg/kg dry	49.3	4.21	78.2	75-125	5.32	20	
Beryllium	4.55	0.31	0.014	mg/kg dry	4.93	0.600	80.3	75-125	5.26	20	
Cadmium	38.8	0.31	0.031	mg/kg dry	49.3	<0.31	78.8	75-125	4.76	20	
Chromium	71.3	0.62	0.015	mg/kg dry	49.3	35.7	72.4	75-125	6.08	20	M2
Copper	77.9	1.2	0.086	mg/kg dry	49.3	38.7	79.4	75-125	4.69	20	
Lead	47.6	1.2	0.042	mg/kg dry	49.3	9.14	78.1	75-125	5.67	20	
Nickel	68.3	0.62	0.017	mg/kg dry	49.3	34.5	68.6	75-125	0.380	20	M2
Selenium	36.2	1.2	0.14	mg/kg dry	49.3	<1.2	73.5	75-125	4.16	20	M2
Silver	3.59	0.31	0.011	mg/kg dry	4.93	<0.31	72.9	75-125	6.26	20	M2
Thallium	36.1	2.5	0.16	mg/kg dry	49.3	<2.5	73.4	75-125	5.09	20	M2
Zinc	16.2	1.2	0.27	mg/kg dry	49.3	<1.2	33.0	75-125	6.38	20	M2

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4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

PERCENT SOLIDS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2103 - General Preparation											
Duplicate (B9I2103-DUP1)		**Source: 0904026-04**			Prepared: 09/21/09		Analyzed: 09/22/09				
% Solids	98.0			%		98.0			0.00	20	
Duplicate (B9I2103-DUP2)		**Source: 0904029-10**			Prepared: 09/21/09		Analyzed: 09/22/09				
% Solids	87.0			%		87.0			0.00	20	
Duplicate (B9I2103-DUP3)		**Source: 0904031-05**			Prepared: 09/21/09		Analyzed: 09/22/09				
% Solids	93.0			%		93.0			0.00	20	
Duplicate (B9I2103-DUP4)		**Source: 0904107-02**			Prepared: 09/21/09		Analyzed: 09/22/09				
% Solids	88.0			%		86.0			2.30	20	
Duplicate (B9I2103-DUP5)		**Source: 0904128-01**			Prepared: 09/21/09		Analyzed: 09/22/09				
% Solids	96.0			%		95.0			1.05	20	

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4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1503 - EPA 3510C (Sep Funnel)											
Blank (B9I1503-BLK1)					Prepared: 09/15/09 Analyzed: 09/16/09						
1,2,4-Trichlorobenzene	< 0.19	10	0.19	ug/L							
1,2-Dichlorobenzene	< 0.23	10	0.23	ug/L							
1,2-Diphenylhydrazine as Azobenzene	< 0.24	10	0.24	ug/L							
1,3-Dichlorobenzene	< 0.21	10	0.21	ug/L							
1,4-Dichlorobenzene	< 0.22	10	0.22	ug/L							
2,3,4,6-Tetrachlorophenol	< 0.61	10	0.61	ug/L							
2,4,5-Trichlorophenol	< 0.80	10	0.80	ug/L							
2,4,6-Trichlorophenol	< 0.48	10	0.48	ug/L							
2,4-Dichlorophenol	< 0.47	10	0.47	ug/L							
2,4-Dimethylphenol	< 1.6	10	1.6	ug/L							
2,4-Dinitrophenol	< 1.0	10	1.0	ug/L							
2,4-Dinitrotoluene	< 0.33	10	0.33	ug/L							
2,6-Dichlorophenol	< 0.48	10	0.48	ug/L							
2,6-Dinitrotoluene	< 0.36	10	0.36	ug/L							
2-Chloronaphthalene	< 0.28	10	0.28	ug/L							
2-Chlorophenol	< 0.45	10	0.45	ug/L							
2-Methylnaphthalene	< 0.66	10	0.66	ug/L							
2-Methylphenol	< 0.63	10	0.63	ug/L							
2-Nitroaniline	< 0.72	10	0.72	ug/L							
2-Nitrophenol	< 0.90	10	0.90	ug/L							
3,3´-Dichlorobenzidine	< 7.3	25	7.3	ug/L							
3-Nitroaniline	< 1.2	10	1.2	ug/L							
4,6-Dinitro-2-methylphenol	< 0.65	10	0.65	ug/L							
4-Bromophenyl phenyl ether	< 0.17	10	0.17	ug/L							
4-Chloro-3-methylphenol	< 0.55	10	0.55	ug/L							
4-Chloroaniline	< 2.3	10	2.3	ug/L							
4-Chlorophenyl phenyl ether	< 0.25	10	0.25	ug/L							
4-Methylphenol	< 0.79	10	0.79	ug/L							
4-Nitroaniline	< 0.59	10	0.59	ug/L							
4-Nitrophenol	< 1.2	10	1.2	ug/L							
Acenaphthene	< 0.36	10	0.36	ug/L							
Acenaphthylene	< 0.25	10	0.25	ug/L							
Aniline	< 2.2	10	2.2	ug/L							
Anthracene	< 0.37	10	0.37	ug/L							
Benzidine	< 18	100	18	ug/L							
Benzo (a) anthracene	< 0.37	10	0.37	ug/L							
Benzo (a) pyrene	< 0.29	10	0.29	ug/L							
Benzo (b) fluoranthene	< 0.22	10	0.22	ug/L							
Benzo (g,h,i) perylene	< 0.26	10	0.26	ug/L							

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1503 - EPA 3510C (Sep Funnel)											
Blank (B9I1503-BLK1)					Prepared: 09/15/09	Analyzed: 09/16/09					
Benzo (k) fluoranthene	< 0.31	10	0.31	ug/L							
Benzoic acid	< 1.2	10	1.2	ug/L							
Benzyl alcohol	< 0.54	10	0.54	ug/L							
Bis(2-chloroethoxy)methane	< 0.18	10	0.18	ug/L							
Bis(2-chloroethyl)ether	< 0.17	10	0.17	ug/L							
Bis(2-chloroisopropyl)ether	< 0.19	10	0.19	ug/L							
Bis(2-ethylhexyl)phthalate	< 0.43	10	0.43	ug/L							
Butyl benzyl phthalate	< 0.37	10	0.37	ug/L							
Carbazole	< 0.26	10	0.26	ug/L							
Chrysene	< 0.27	10	0.27	ug/L							
Dibenz (a,h) anthracene	< 0.23	10	0.23	ug/L							
Dibenzofuran	< 0.39	10	0.39	ug/L							
Diethyl phthalate	< 0.23	10	0.23	ug/L							
Dimethyl phthalate	< 0.24	10	0.24	ug/L							
Di-n-butyl phthalate	< 0.28	10	0.28	ug/L							
Di-n-octyl phthalate	< 0.38	10	0.38	ug/L							
Fluoranthene	< 0.39	10	0.39	ug/L							
Fluorene	< 0.40	10	0.40	ug/L							
Hexachlorobenzene	< 0.20	10	0.20	ug/L							
Hexachlorobutadiene	< 0.26	10	0.26	ug/L							
Hexachlorocyclopentadiene	< 0.31	10	0.31	ug/L							
Hexachloroethane	< 0.31	10	0.31	ug/L							
Indeno (1,2,3-cd) pyrene	< 0.31	10	0.31	ug/L							
Isophorone	< 0.23	10	0.23	ug/L							
Naphthalene	< 0.37	10	0.37	ug/L							
Nitrobenzene	< 0.39	10	0.39	ug/L							
N-Nitrosodimethylamine	< 0.95	10	0.95	ug/L							
N-Nitrosodi-n-propylamine	< 0.21	10	0.21	ug/L							
N-Nitrosodiphenylamine	< 0.23	10	0.23	ug/L							
Pentachlorophenol	< 0.59	10	0.59	ug/L							
Phenanthrene	< 0.39	10	0.39	ug/L							
Phenol	< 0.57	10	0.57	ug/L							
Pyrene	< 0.47	10	0.47	ug/L							
Surrogate: 2,4,6-Tribromophenol	*84.8*			*ug/L*	*100*		*84.8*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*62.8*			*ug/L*	*100*		*62.8*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*37.7*			*ug/L*	*100*		*37.7*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*67.9*			*ug/L*	*100*		*67.9*	*47.4-97.8*			
Surrogate: Phenol-d6	*35.2*			*ug/L*	*100*		*35.2*	*30-91.5*			
Surrogate: Terphenyl-d14	*73.7*			*ug/L*	*100*		*73.7*	*30-108*			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1503 - EPA 3510C (Sep Funnel)											
LCS (B9I1503-BS1)					Prepared: 09/15/09		Analyzed: 09/16/09				
1,2,4-Trichlorobenzene	58.6	10	0.19	ug/L	100		58.6	48.2-88.3			
1,4-Dichlorobenzene	53.4	10	0.22	ug/L	100		53.4	42.8-82.2			
2,4-Dinitrotoluene	90.1	10	0.33	ug/L	100		90.1	64.6-98.9			
2-Chlorophenol	62.9	10	0.45	ug/L	100		62.9	56.5-88.1			
4-Chloro-3-methylphenol	75.0	10	0.55	ug/L	100		75.0	63.4-95.2			
4-Nitrophenol	60.6	10	1.2	ug/L	100		60.6	51.3-90.6			
Anthracene	84.4	10	0.37	ug/L	100		84.4	66.7-92.8			
Benzo (a) anthracene	91.4	10	0.37	ug/L	100		91.4	72.7-97.2			
Benzo (a) pyrene	86.3	10	0.29	ug/L	100		86.3	66.4-101			
Chrysene	90.9	10	0.27	ug/L	100		90.9	71.5-98.1			
Fluoranthene	83.5	10	0.39	ug/L	100		83.5	68.8-94			
Fluorene	80.1	10	0.40	ug/L	100		80.1	64.2-94.4			
N-Nitrosodi-n-propylamine	85.8	10	0.21	ug/L	100		85.8	63.6-92.8			
Pentachlorophenol	87.5	10	0.59	ug/L	100		87.5	60.2-101			
Phenanthrene	85.6	10	0.39	ug/L	100		85.6	68.1-94.8			
Phenol	43.1	10	0.57	ug/L	100		43.1	39.6-71			
Surrogate: 2,4,6-Tribromophenol	*87.9*			*ug/L*	*100*		*87.9*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*70.5*			*ug/L*	*100*		*70.5*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*49.7*			*ug/L*	*100*		*49.7*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*82.4*			*ug/L*	*100*		*82.4*	*47.4-97.8*			
Surrogate: Phenol-d6	*44.1*			*ug/L*	*100*		*44.1*	*30-91.5*			
Surrogate: Terphenyl-d14	*83.3*			*ug/L*	*100*		*83.3*	*30-108*			
LCS Dup (B9I1503-BSD1)					Prepared: 09/15/09		Analyzed: 09/16/09				
1,2,4-Trichlorobenzene	60.1	10	0.19	ug/L	100		60.1	48.2-88.3	2.60	20	
1,4-Dichlorobenzene	55.1	10	0.22	ug/L	100		55.1	42.8-82.2	3.10	20	
2,4-Dinitrotoluene	91.5	10	0.33	ug/L	100		91.5	64.6-98.9	1.51	20	
2-Chlorophenol	63.6	10	0.45	ug/L	100		63.6	56.5-88.1	1.07	20	
4-Chloro-3-methylphenol	77.9	10	0.55	ug/L	100		77.9	63.4-95.2	3.85	20	
4-Nitrophenol	61.0	10	1.2	ug/L	100		61.0	51.3-90.6	0.653	20	
Anthracene	86.3	10	0.37	ug/L	100		86.3	66.7-92.8	2.22	20	
Benzo (a) anthracene	93.9	10	0.37	ug/L	100		93.9	72.7-97.2	2.77	20	
Benzo (a) pyrene	88.6	10	0.29	ug/L	100		88.6	66.4-101	2.61	20	
Chrysene	93.0	10	0.27	ug/L	100		93.0	71.5-98.1	2.27	20	
Fluoranthene	85.6	10	0.39	ug/L	100		85.6	68.8-94	2.41	20	
Fluorene	81.1	10	0.40	ug/L	100		81.1	64.2-94.4	1.22	20	
N-Nitrosodi-n-propylamine	86.4	10	0.21	ug/L	100		86.4	63.6-92.8	0.697	20	
Pentachlorophenol	89.1	10	0.59	ug/L	100		89.1	60.2-101	1.80	20	
Phenanthrene	87.4	10	0.39	ug/L	100		87.4	68.1-94.8	2.15	20	
Phenol	41.6	10	0.57	ug/L	100		41.6	39.6-71	3.47	20	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1503 - EPA 3510C (Sep Funnel)											
LCS Dup (B9I1503-BSD1)					Prepared: 09/15/09		Analyzed: 09/16/09				
Surrogate: 2,4,6-Tribromophenol	*90.1*			*ug/L*	*100*		*90.1*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*69.6*			*ug/L*	*100*		*69.6*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*47.8*			*ug/L*	*100*		*47.8*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*82.3*			*ug/L*	*100*		*82.3*	*47.4-97.8*			
Surrogate: Phenol-d6	*42.3*			*ug/L*	*100*		*42.3*	*30-91.5*			
Surrogate: Terphenyl-d14	*85.4*			*ug/L*	*100*		*85.4*	*30-108*			
Matrix Spike (B9I1503-MS1)		**Source: 0904005-01**			Prepared: 09/15/09		Analyzed: 09/16/09				
1,2,4-Trichlorobenzene	69.3	10	0.19	ug/L	101	<10	69.0	43.8-87.4			
1,4-Dichlorobenzene	61.4	10	0.22	ug/L	101	<10	61.1	43.7-78.7			
2,4-Dinitrotoluene	89.5	10	0.33	ug/L	101	<10	89.1	52.8-100			
2-Chlorophenol	60.7	10	0.45	ug/L	101	<10	60.4	30.1-95			
4-Chloro-3-methylphenol	73.8	10	0.55	ug/L	101	<10	73.5	44.8-98.7			
4-Nitrophenol	60.1	10	1.2	ug/L	101	<10	59.8	32.5-99.6			
Anthracene	83.9	10	0.37	ug/L	101	<10	83.5	44.8-97.6			
Benzo (a) anthracene	88.6	10	0.37	ug/L	101	<10	88.2	30-115			
Benzo (a) pyrene	82.5	10	0.29	ug/L	101	<10	82.1	30-110			
Chrysene	87.3	10	0.27	ug/L	101	<10	86.9	30-115			
Fluoranthene	82.6	10	0.39	ug/L	101	<10	82.1	37.4-103			
Fluorene	80.7	10	0.40	ug/L	101	<10	80.3	49.6-92.1			
N-Nitrosodi-n-propylamine	83.2	10	0.21	ug/L	101	<10	82.8	44.9-100			
Pentachlorophenol	86.5	10	0.59	ug/L	101	<10	86.0	31.2-123			
Phenanthrene	84.8	10	0.39	ug/L	101	<10	84.4	47-99.1			
Phenol	42.5	10	0.57	ug/L	101	<10	42.3	30-79.5			
Surrogate: 2,4,6-Tribromophenol	*85.1*			*ug/L*	*101*		*84.6*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*72.9*			*ug/L*	*101*		*72.5*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*47.5*			*ug/L*	*101*		*47.2*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*80.6*			*ug/L*	*101*		*80.2*	*47.4-97.8*			
Surrogate: Phenol-d6	*43.1*			*ug/L*	*101*		*42.8*	*30-91.5*			
Surrogate: Terphenyl-d14	*74.1*			*ug/L*	*101*		*73.8*	*30-108*			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1703 - EPA 3545 ASE Extraction											
Blank (B9I1703-BLK1)					Prepared & Analyzed: 09/17/09						
1,2,4-Trichlorobenzene	< 0.027	0.33	0.027	mg/kg wet							
1,2-Dichlorobenzene	< 0.025	0.33	0.025	mg/kg wet							
1,2-Diphenylhydrazine as Azobenzene	< 0.020	0.33	0.020	mg/kg wet							
1,3-Dichlorobenzene	< 0.023	0.33	0.023	mg/kg wet							
1,4-Dichlorobenzene	< 0.024	0.33	0.024	mg/kg wet							
2,3,4,6-Tetrachlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2,4,5-Trichlorophenol	< 0.024	0.67	0.024	mg/kg wet							
2,4,6-Trichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dimethylphenol	< 0.090	0.67	0.090	mg/kg wet							
2,4-Dinitrophenol	< 0.058	0.67	0.058	mg/kg wet							
2,4-Dinitrotoluene	< 0.021	0.33	0.021	mg/kg wet							
2,6-Dichlorophenol	< 0.043	0.67	0.043	mg/kg wet							
2,6-Dinitrotoluene	< 0.019	0.33	0.019	mg/kg wet							
2-Chloronaphthalene	< 0.019	0.33	0.019	mg/kg wet							
2-Chlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2-Methylnaphthalene	< 0.028	0.33	0.028	mg/kg wet							
2-Methylphenol	< 0.035	0.67	0.035	mg/kg wet							
2-Nitroaniline	< 0.020	0.33	0.020	mg/kg wet							
2-Nitrophenol	< 0.036	0.67	0.036	mg/kg wet							
3,3´-Dichlorobenzidine	< 0.39	1.6	0.39	mg/kg wet							
3-Nitroaniline	< 0.033	0.33	0.033	mg/kg wet							
4,6-Dinitro-2-methylphenol	< 0.074	0.67	0.074	mg/kg wet							
4-Bromophenyl phenyl ether	< 0.017	0.33	0.017	mg/kg wet							
4-Chloro-3-methylphenol	< 0.040	0.67	0.040	mg/kg wet							
4-Chloroaniline	< 0.11	0.67	0.11	mg/kg wet							
4-Chlorophenyl phenyl ether	< 0.023	0.33	0.023	mg/kg wet							
4-Methylphenol	< 0.027	0.67	0.027	mg/kg wet							
4-Nitroaniline	< 0.023	0.33	0.023	mg/kg wet							
4-Nitrophenol	< 0.099	0.67	0.099	mg/kg wet							
Acenaphthene	< 0.028	0.33	0.028	mg/kg wet							
Acenaphthylene	< 0.023	0.33	0.023	mg/kg wet							
Aniline	< 0.090	0.67	0.090	mg/kg wet							
Anthracene	< 0.025	0.33	0.025	mg/kg wet							
Benzidine	< 0.72	2.5	0.72	mg/kg wet							
Benzo (a) anthracene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (a) pyrene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (b) fluoranthene	< 0.034	0.33	0.034	mg/kg wet							
Benzo (g,h,i) perylene	< 0.030	0.33	0.030	mg/kg wet							

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1703 - EPA 3545 ASE Extraction											
Blank (B9I1703-BLK1)					Prepared & Analyzed: 09/17/09						
Benzo (k) fluoranthene	< 0.031	0.33	0.031	mg/kg wet							
Benzoic acid	< 0.058	0.33	0.058	mg/kg wet							
Benzyl alcohol	< 0.12	0.67	0.12	mg/kg wet							
Bis(2-chloroethoxy)methane	< 0.021	0.33	0.021	mg/kg wet							
Bis(2-chloroethyl)ether	< 0.024	0.33	0.024	mg/kg wet							
Bis(2-chloroisopropyl)ether	< 0.022	0.33	0.022	mg/kg wet							
Bis(2-ethylhexyl)phthalate	< 0.020	0.33	0.020	mg/kg wet							
Butyl benzyl phthalate	< 0.021	0.33	0.021	mg/kg wet							
Carbazole	< 0.022	0.33	0.022	mg/kg wet							
Chrysene	< 0.033	0.33	0.033	mg/kg wet							
Dibenz (a,h) anthracene	< 0.034	0.33	0.034	mg/kg wet							
Dibenzofuran	< 0.019	0.33	0.019	mg/kg wet							
Diethyl phthalate	< 0.015	0.33	0.015	mg/kg wet							
Dimethyl phthalate	< 0.018	0.33	0.018	mg/kg wet							
Di-n-butyl phthalate	< 0.037	0.33	0.037	mg/kg wet							
Di-n-octyl phthalate	< 0.025	0.33	0.025	mg/kg wet							
Fluoranthene	< 0.024	0.33	0.024	mg/kg wet							
Fluorene	< 0.018	0.33	0.018	mg/kg wet							
Hexachlorobenzene	< 0.016	0.33	0.016	mg/kg wet							
Hexachlorobutadiene	< 0.033	0.33	0.033	mg/kg wet							
Hexachlorocyclopentadiene	< 0.041	0.33	0.041	mg/kg wet							
Hexachloroethane	< 0.028	0.33	0.028	mg/kg wet							
Indeno (1,2,3-cd) pyrene	< 0.032	0.33	0.032	mg/kg wet							
Isophorone	< 0.017	0.33	0.017	mg/kg wet							
Naphthalene	< 0.029	0.33	0.029	mg/kg wet							
Nitrobenzene	< 0.030	0.33	0.030	mg/kg wet							
N-Nitrosodimethylamine	< 0.032	0.33	0.032	mg/kg wet							
N-Nitrosodi-n-propylamine	< 0.025	0.33	0.025	mg/kg wet							
N-Nitrosodiphenylamine	< 0.018	0.33	0.018	mg/kg wet							
Pentachlorophenol	< 0.096	0.67	0.096	mg/kg wet							
Phenanthrene	< 0.019	0.33	0.019	mg/kg wet							
Phenol	< 0.057	0.67	0.057	mg/kg wet							
Pyrene	< 0.023	0.33	0.023	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	*4.34*			*mg/kg wet*	*6.67*		*65.2*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*3.67*			*mg/kg wet*	*6.67*		*55.0*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*3.94*			*mg/kg wet*	*6.67*		*59.1*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*3.98*			*mg/kg wet*	*6.67*		*59.7*	*49.1-86.9*			
Surrogate: Phenol-d6	*4.24*			*mg/kg wet*	*6.67*		*63.6*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*4.12*			*mg/kg wet*	*6.67*		*61.8*	*43.6-112*			

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1703 - EPA 3545 ASE Extraction											
LCS (B9I1703-BS1)					Prepared & Analyzed: 09/17/09						
1,2,4-Trichlorobenzene	4.70	0.33	0.027	mg/kg wet	6.67		70.5	50.7-82.1			
1,4-Dichlorobenzene	4.18	0.33	0.024	mg/kg wet	6.67		62.7	44-77			
2,4-Dinitrotoluene	4.98	0.33	0.021	mg/kg wet	6.67		74.7	56.7-81.7			
2-Chlorophenol	4.78	0.67	0.038	mg/kg wet	6.67		71.7	52.3-88.2			
4-Chloro-3-methylphenol	4.87	0.67	0.040	mg/kg wet	6.67		73.0	53.4-87			
4-Nitrophenol	5.26	0.67	0.099	mg/kg wet	6.67		78.9	55.7-87.1			
Anthracene	5.24	0.33	0.025	mg/kg wet	6.67		78.6	65.3-92			
Benzo (a) anthracene	5.59	0.33	0.027	mg/kg wet	6.67		83.8	69-95.3			
Benzo (a) pyrene	5.55	0.33	0.027	mg/kg wet	6.67		83.3	68.5-98.2			
Chrysene	5.48	0.33	0.033	mg/kg wet	6.67		82.2	68.6-94.2			
Fluoranthene	5.13	0.33	0.024	mg/kg wet	6.67		77.0	64.3-94.6			
Fluorene	4.90	0.33	0.018	mg/kg wet	6.67		73.5	61.9-89.4			
N-Nitrosodi-n-propylamine	5.11	0.33	0.025	mg/kg wet	6.67		76.7	55.5-91.1			
Pentachlorophenol	4.26	0.67	0.096	mg/kg wet	6.67		64.0	54.7-74.6			
Phenanthrene	5.10	0.33	0.019	mg/kg wet	6.67		76.5	64.3-90.9			
Phenol	4.71	0.67	0.057	mg/kg wet	6.67		70.7	49.7-85.4			
Surrogate: 2,4,6-Tribromophenol	*5.54*			*mg/kg wet*	*6.67*		*83.0*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*4.57*			*mg/kg wet*	*6.67*		*68.5*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*5.01*			*mg/kg wet*	*6.67*		*75.2*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*5.04*			*mg/kg wet*	*6.67*		*75.6*	*49.1-86.9*			
Surrogate: Phenol-d6	*5.36*			*mg/kg wet*	*6.67*		*80.5*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.20*			*mg/kg wet*	*6.67*		*78.0*	*43.6-112*			
Matrix Spike (B9I1703-MS1)		**Source: 0904018-04**			Prepared & Analyzed: 09/17/09						
1,2,4-Trichlorobenzene	5.35	0.38	0.031	mg/kg dry	7.75	<0.38	69.0	51-77.5			
1,4-Dichlorobenzene	4.64	0.38	0.028	mg/kg dry	7.75	<0.38	59.8	41.7-73.4			
2,4-Dinitrotoluene	5.60	0.38	0.024	mg/kg dry	7.75	<0.38	72.3	50-84.8			
2-Chlorophenol	5.45	0.78	0.044	mg/kg dry	7.75	<0.78	70.3	47.8-90.8			
4-Chloro-3-methylphenol	5.63	0.78	0.047	mg/kg dry	7.75	<0.78	72.6	48.4-95.1			
4-Nitrophenol	6.12	0.78	0.12	mg/kg dry	7.75	<0.78	78.9	44-105			
Anthracene	5.99	0.38	0.029	mg/kg dry	7.75	<0.38	77.2	60.2-97.3			
Benzo (a) anthracene	6.33	0.38	0.031	mg/kg dry	7.75	<0.38	81.6	59.8-102			
Benzo (a) pyrene	6.33	0.38	0.031	mg/kg dry	7.75	<0.38	81.6	57.2-105			
Chrysene	6.22	0.38	0.038	mg/kg dry	7.75	<0.38	80.3	59.2-102			
Fluoranthene	5.84	0.38	0.028	mg/kg dry	7.75	<0.38	75.4	50.4-108			
Fluorene	5.73	0.38	0.021	mg/kg dry	7.75	<0.38	73.9	57.8-94.4			
N-Nitrosodi-n-propylamine	5.77	0.38	0.029	mg/kg dry	7.75	<0.38	74.5	46.2-96.2			
Pentachlorophenol	5.30	0.78	0.11	mg/kg dry	7.75	<0.78	68.4	53.6-80.4			
Phenanthrene	5.90	0.38	0.022	mg/kg dry	7.75	<0.38	76.1	58.4-97.5			
Phenol	5.39	0.78	0.066	mg/kg dry	7.75	<0.78	69.5	44-88.5			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1703 - EPA 3545 ASE Extraction											
Matrix Spike (B9I1703-MS1)		**Source: 0904018-04**			Prepared & Analyzed: 09/17/09						
Surrogate: 2,4,6-Tribromophenol	*6.36*			*mg/kg dry*	*7.75*		*82.0*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*5.25*			*mg/kg dry*	*7.75*		*67.8*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*5.65*			*mg/kg dry*	*7.75*		*72.9*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*5.70*			*mg/kg dry*	*7.75*		*73.5*	*49.1-86.9*			
Surrogate: Phenol-d6	*6.02*			*mg/kg dry*	*7.75*		*77.7*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.71*			*mg/kg dry*	*7.75*		*73.6*	*43.6-112*			
Matrix Spike Dup (B9I1703-MSD1)		**Source: 0904018-04**			Prepared & Analyzed: 09/17/09						
1,2,4-Trichlorobenzene	5.15	0.38	0.031	mg/kg dry	7.75	<0.38	66.5	51-77.5	3.73	15.7	
1,4-Dichlorobenzene	4.39	0.38	0.028	mg/kg dry	7.75	<0.38	56.7	41.7-73.4	5.40	14.7	
2,4-Dinitrotoluene	5.67	0.38	0.024	mg/kg dry	7.75	<0.38	73.1	50-84.8	1.16	20.5	
2-Chlorophenol	5.29	0.78	0.044	mg/kg dry	7.75	<0.78	68.3	47.8-90.8	2.97	19.8	
4-Chloro-3-methylphenol	5.52	0.78	0.047	mg/kg dry	7.75	<0.78	71.2	48.4-95.1	1.99	18.7	
4-Nitrophenol	6.22	0.78	0.12	mg/kg dry	7.75	<0.78	80.2	44-105	1.60	30.9	
Anthracene	6.07	0.38	0.029	mg/kg dry	7.75	<0.38	78.2	60.2-97.3	1.29	15.1	
Benzo (a) anthracene	6.37	0.38	0.031	mg/kg dry	7.75	<0.38	82.2	59.8-102	0.715	19.6	
Benzo (a) pyrene	6.39	0.38	0.031	mg/kg dry	7.75	<0.38	82.5	57.2-105	1.01	19.4	
Chrysene	6.27	0.38	0.038	mg/kg dry	7.75	<0.38	80.9	59.2-102	0.811	19.6	
Fluoranthene	5.92	0.38	0.028	mg/kg dry	7.75	<0.38	76.3	50.4-108	1.27	21	
Fluorene	5.66	0.38	0.021	mg/kg dry	7.75	<0.38	73.0	57.8-94.4	1.29	15.8	
N-Nitrosodi-n-propylamine	5.60	0.38	0.029	mg/kg dry	7.75	<0.38	72.3	46.2-96.2	2.97	17.1	
Pentachlorophenol	5.43	0.78	0.11	mg/kg dry	7.75	<0.78	70.1	53.6-80.4	2.42	22.4	
Phenanthrene	5.94	0.38	0.022	mg/kg dry	7.75	<0.38	76.7	58.4-97.5	0.674	14.3	
Phenol	5.27	0.78	0.066	mg/kg dry	7.75	<0.78	67.9	44-88.5	2.34	21.5	
Surrogate: 2,4,6-Tribromophenol	*6.40*			*mg/kg dry*	*7.75*		*82.5*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*5.11*			*mg/kg dry*	*7.75*		*66.0*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*5.42*			*mg/kg dry*	*7.75*		*69.9*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*5.45*			*mg/kg dry*	*7.75*		*70.3*	*49.1-86.9*			
Surrogate: Phenol-d6	*5.85*			*mg/kg dry*	*7.75*		*75.5*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.85*			*mg/kg dry*	*7.75*		*75.4*	*43.6-112*			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1804 - EPA 3545 ASE Extraction											
Blank (B9I1804-BLK1)					Prepared & Analyzed: 09/18/09						
1,2,4-Trichlorobenzene	< 0.027	0.33	0.027	mg/kg wet							
1,2-Dichlorobenzene	< 0.025	0.33	0.025	mg/kg wet							
1,2-Diphenylhydrazine as Azobenzene	< 0.020	0.33	0.020	mg/kg wet							
1,3-Dichlorobenzene	< 0.023	0.33	0.023	mg/kg wet							
1,4-Dichlorobenzene	< 0.024	0.33	0.024	mg/kg wet							
2,3,4,6-Tetrachlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2,4,5-Trichlorophenol	< 0.024	0.67	0.024	mg/kg wet							
2,4,6-Trichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dimethylphenol	< 0.090	0.67	0.090	mg/kg wet							
2,4-Dinitrophenol	< 0.058	0.67	0.058	mg/kg wet							
2,4-Dinitrotoluene	< 0.021	0.33	0.021	mg/kg wet							
2,6-Dichlorophenol	< 0.043	0.67	0.043	mg/kg wet							
2,6-Dinitrotoluene	< 0.019	0.33	0.019	mg/kg wet							
2-Chloronaphthalene	< 0.019	0.33	0.019	mg/kg wet							
2-Chlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2-Methylnaphthalene	< 0.028	0.33	0.028	mg/kg wet							
2-Methylphenol	< 0.035	0.67	0.035	mg/kg wet							
2-Nitroaniline	< 0.020	0.33	0.020	mg/kg wet							
2-Nitrophenol	< 0.036	0.67	0.036	mg/kg wet							
3,3´-Dichlorobenzidine	< 0.39	1.6	0.39	mg/kg wet							
3-Nitroaniline	< 0.033	0.33	0.033	mg/kg wet							
4,6-Dinitro-2-methylphenol	< 0.074	0.67	0.074	mg/kg wet							
4-Bromophenyl phenyl ether	< 0.017	0.33	0.017	mg/kg wet							
4-Chloro-3-methylphenol	< 0.040	0.67	0.040	mg/kg wet							
4-Chloroaniline	< 0.11	0.67	0.11	mg/kg wet							
4-Chlorophenyl phenyl ether	< 0.023	0.33	0.023	mg/kg wet							
4-Methylphenol	< 0.027	0.67	0.027	mg/kg wet							
4-Nitroaniline	< 0.023	0.33	0.023	mg/kg wet							
4-Nitrophenol	< 0.099	0.67	0.099	mg/kg wet							
Acenaphthene	< 0.028	0.33	0.028	mg/kg wet							
Acenaphthylene	< 0.023	0.33	0.023	mg/kg wet							
Aniline	< 0.090	0.67	0.090	mg/kg wet							
Anthracene	< 0.025	0.33	0.025	mg/kg wet							
Benzidine	< 0.72	2.5	0.72	mg/kg wet							
Benzo (a) anthracene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (a) pyrene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (b) fluoranthene	< 0.034	0.33	0.034	mg/kg wet							
Benzo (g,h,i) perylene	< 0.030	0.33	0.030	mg/kg wet							

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1804 - EPA 3545 ASE Extraction											
Blank (B9I1804-BLK1)					Prepared & Analyzed: 09/18/09						
Benzo (k) fluoranthene	< 0.031	0.33	0.031	mg/kg wet							
Benzoic acid	< 0.058	0.33	0.058	mg/kg wet							
Benzyl alcohol	< 0.12	0.67	0.12	mg/kg wet							
Bis(2-chloroethoxy)methane	< 0.021	0.33	0.021	mg/kg wet							
Bis(2-chloroethyl)ether	< 0.024	0.33	0.024	mg/kg wet							
Bis(2-chloroisopropyl)ether	< 0.022	0.33	0.022	mg/kg wet							
Bis(2-ethylhexyl)phthalate	< 0.020	0.33	0.020	mg/kg wet							
Butyl benzyl phthalate	< 0.021	0.33	0.021	mg/kg wet							
Carbazole	< 0.022	0.33	0.022	mg/kg wet							
Chrysene	< 0.033	0.33	0.033	mg/kg wet							
Dibenz (a,h) anthracene	< 0.034	0.33	0.034	mg/kg wet							
Dibenzofuran	< 0.019	0.33	0.019	mg/kg wet							
Diethyl phthalate	< 0.015	0.33	0.015	mg/kg wet							
Dimethyl phthalate	< 0.018	0.33	0.018	mg/kg wet							
Di-n-butyl phthalate	< 0.037	0.33	0.037	mg/kg wet							
Di-n-octyl phthalate	< 0.025	0.33	0.025	mg/kg wet							
Fluoranthene	< 0.024	0.33	0.024	mg/kg wet							
Fluorene	< 0.018	0.33	0.018	mg/kg wet							
Hexachlorobenzene	< 0.016	0.33	0.016	mg/kg wet							
Hexachlorobutadiene	< 0.033	0.33	0.033	mg/kg wet							
Hexachlorocyclopentadiene	< 0.041	0.33	0.041	mg/kg wet							
Hexachloroethane	< 0.028	0.33	0.028	mg/kg wet							
Indeno (1,2,3-cd) pyrene	< 0.032	0.33	0.032	mg/kg wet							
Isophorone	< 0.017	0.33	0.017	mg/kg wet							
Naphthalene	< 0.029	0.33	0.029	mg/kg wet							
Nitrobenzene	< 0.030	0.33	0.030	mg/kg wet							
N-Nitrosodimethylamine	< 0.032	0.33	0.032	mg/kg wet							
N-Nitrosodi-n-propylamine	< 0.025	0.33	0.025	mg/kg wet							
N-Nitrosodiphenylamine	< 0.018	0.33	0.018	mg/kg wet							
Pentachlorophenol	< 0.096	0.67	0.096	mg/kg wet							
Phenanthrene	< 0.019	0.33	0.019	mg/kg wet							
Phenol	< 0.057	0.67	0.057	mg/kg wet							
Pyrene	< 0.023	0.33	0.023	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	*4.42*			*mg/kg wet*	*6.67*		*66.3*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*3.70*			*mg/kg wet*	*6.67*		*55.5*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*3.91*			*mg/kg wet*	*6.67*		*58.7*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.00*			*mg/kg wet*	*6.67*		*60.0*	*49.1-86.9*			
Surrogate: Phenol-d6	*4.20*			*mg/kg wet*	*6.67*		*63.0*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*4.12*			*mg/kg wet*	*6.67*		*61.9*	*43.6-112*			

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1804 - EPA 3545 ASE Extraction											
LCS (B9I1804-BS1)					Prepared & Analyzed: 09/18/09						
1,2,4-Trichlorobenzene	4.11	0.33	0.027	mg/kg wet	6.67		61.6	50.7-82.1			
1,4-Dichlorobenzene	3.59	0.33	0.024	mg/kg wet	6.67		53.8	44-77			
2,4-Dinitrotoluene	4.56	0.33	0.021	mg/kg wet	6.67		68.5	56.7-81.7			
2-Chlorophenol	4.19	0.67	0.038	mg/kg wet	6.67		62.8	52.3-88.2			
4-Chloro-3-methylphenol	4.49	0.67	0.040	mg/kg wet	6.67		67.3	53.4-87			
4-Nitrophenol	4.84	0.67	0.099	mg/kg wet	6.67		72.6	55.7-87.1			
Anthracene	4.79	0.33	0.025	mg/kg wet	6.67		71.9	65.3-92			
Benzo (a) anthracene	5.07	0.33	0.027	mg/kg wet	6.67		76.1	69-95.3			
Benzo (a) pyrene	5.03	0.33	0.027	mg/kg wet	6.67		75.5	68.5-98.2			
Chrysene	4.96	0.33	0.033	mg/kg wet	6.67		74.4	68.6-94.2			
Fluoranthene	4.76	0.33	0.024	mg/kg wet	6.67		71.4	64.3-94.6			
Fluorene	4.55	0.33	0.018	mg/kg wet	6.67		68.2	61.9-89.4			
N-Nitrosodi-n-propylamine	4.54	0.33	0.025	mg/kg wet	6.67		68.1	55.5-91.1			
Pentachlorophenol	4.02	0.67	0.096	mg/kg wet	6.67		60.3	54.7-74.6			
Phenanthrene	4.66	0.33	0.019	mg/kg wet	6.67		70.0	64.3-90.9			
Phenol	4.17	0.67	0.057	mg/kg wet	6.67		62.5	49.7-85.4			
Surrogate: 2,4,6-Tribromophenol	*5.08*			*mg/kg wet*	*6.67*		*76.3*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*4.05*			*mg/kg wet*	*6.67*		*60.8*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*4.32*			*mg/kg wet*	*6.67*		*64.8*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.36*			*mg/kg wet*	*6.67*		*65.4*	*49.1-86.9*			
Surrogate: Phenol-d6	*4.69*			*mg/kg wet*	*6.67*		*70.3*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*4.55*			*mg/kg wet*	*6.67*		*68.2*	*43.6-112*			
Matrix Spike (B9I1804-MS1)		**Source: 0904029-09**			Prepared & Analyzed: 09/18/09						
1,2,4-Trichlorobenzene	5.16	0.40	0.033	mg/kg dry	8.12	<0.40	63.6	51-77.5			
1,4-Dichlorobenzene	4.43	0.40	0.029	mg/kg dry	8.12	<0.40	54.6	41.7-73.4			
2,4-Dinitrotoluene	5.55	0.40	0.025	mg/kg dry	8.12	<0.40	68.4	50-84.8			
2-Chlorophenol	5.22	0.81	0.046	mg/kg dry	8.12	<0.81	64.3	47.8-90.8			
4-Chloro-3-methylphenol	5.53	0.81	0.048	mg/kg dry	8.12	<0.81	68.1	48.4-95.1			
4-Nitrophenol	6.14	0.81	0.12	mg/kg dry	8.12	<0.81	75.7	44-105			
Anthracene	5.94	0.40	0.030	mg/kg dry	8.12	<0.40	73.2	60.2-97.3			
Benzo (a) anthracene	6.17	0.40	0.033	mg/kg dry	8.12	<0.40	76.0	59.8-102			
Benzo (a) pyrene	6.05	0.40	0.033	mg/kg dry	8.12	<0.40	74.5	57.2-105			
Chrysene	6.08	0.40	0.040	mg/kg dry	8.12	<0.40	74.8	59.2-102			
Fluoranthene	5.72	0.40	0.029	mg/kg dry	8.12	<0.40	70.5	50.4-108			
Fluorene	5.67	0.40	0.022	mg/kg dry	8.12	<0.40	69.8	57.8-94.4			
N-Nitrosodi-n-propylamine	5.61	0.40	0.030	mg/kg dry	8.12	<0.40	69.1	46.2-96.2			
Pentachlorophenol	5.49	0.81	0.12	mg/kg dry	8.12	<0.81	67.6	53.6-80.4			
Phenanthrene	5.82	0.40	0.023	mg/kg dry	8.12	<0.40	71.7	58.4-97.5			
Phenol	5.20	0.81	0.069	mg/kg dry	8.12	<0.81	64.1	44-88.5			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1804 - EPA 3545 ASE Extraction											
Matrix Spike (B9I1804-MS1)		**Source: 0904029-09**			Prepared & Analyzed: 09/18/09						
Surrogate: 2,4,6-Tribromophenol	*6.39*			*mg/kg dry*	*8.12*		*78.7*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*5.12*			*mg/kg dry*	*8.12*		*63.1*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*5.41*			*mg/kg dry*	*8.12*		*66.7*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*5.54*			*mg/kg dry*	*8.12*		*68.2*	*49.1-86.9*			
Surrogate: Phenol-d6	*5.89*			*mg/kg dry*	*8.12*		*72.5*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.64*			*mg/kg dry*	*8.12*		*69.5*	*43.6-112*			
Matrix Spike Dup (B9I1804-MSD1)		**Source: 0904029-09**			Prepared & Analyzed: 09/18/09						
1,2,4-Trichlorobenzene	5.25	0.40	0.033	mg/kg dry	8.12	<0.40	64.6	51-77.5	1.59	15.7	
1,4-Dichlorobenzene	4.53	0.40	0.029	mg/kg dry	8.12	<0.40	55.9	41.7-73.4	2.26	14.7	
2,4-Dinitrotoluene	5.39	0.40	0.025	mg/kg dry	8.12	<0.40	66.4	50-84.8	2.92	20.5	
2-Chlorophenol	5.29	0.81	0.046	mg/kg dry	8.12	<0.81	65.2	47.8-90.8	1.36	19.8	
4-Chloro-3-methylphenol	5.50	0.81	0.048	mg/kg dry	8.12	<0.81	67.8	48.4-95.1	0.438	18.7	
4-Nitrophenol	5.90	0.81	0.12	mg/kg dry	8.12	<0.81	72.7	44-105	3.97	30.9	
Anthracene	5.87	0.40	0.030	mg/kg dry	8.12	<0.40	72.3	60.2-97.3	1.22	15.1	
Benzo (a) anthracene	5.96	0.40	0.033	mg/kg dry	8.12	<0.40	73.4	59.8-102	3.48	19.6	
Benzo (a) pyrene	5.93	0.40	0.033	mg/kg dry	8.12	<0.40	73.1	57.2-105	1.97	19.4	
Chrysene	5.94	0.40	0.040	mg/kg dry	8.12	<0.40	73.1	59.2-102	2.34	19.6	
Fluoranthene	5.65	0.40	0.029	mg/kg dry	8.12	<0.40	69.5	50.4-108	1.31	21	
Fluorene	5.62	0.40	0.022	mg/kg dry	8.12	<0.40	69.2	57.8-94.4	0.775	15.8	
N-Nitrosodi-n-propylamine	5.71	0.40	0.030	mg/kg dry	8.12	<0.40	70.3	46.2-96.2	1.70	17.1	
Pentachlorophenol	5.31	0.81	0.12	mg/kg dry	8.12	<0.81	65.4	53.6-80.4	3.39	22.4	
Phenanthrene	5.78	0.40	0.023	mg/kg dry	8.12	<0.40	71.2	58.4-97.5	0.804	14.3	
Phenol	5.32	0.81	0.069	mg/kg dry	8.12	<0.81	65.6	44-88.5	2.30	21.5	
Surrogate: 2,4,6-Tribromophenol	*6.22*			*mg/kg dry*	*8.12*		*76.6*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*5.21*			*mg/kg dry*	*8.12*		*64.2*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*5.42*			*mg/kg dry*	*8.12*		*66.8*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*5.59*			*mg/kg dry*	*8.12*		*68.8*	*49.1-86.9*			
Surrogate: Phenol-d6	*5.96*			*mg/kg dry*	*8.12*		*73.4*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.48*			*mg/kg dry*	*8.12*		*67.6*	*43.6-112*			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1810 - EPA 5030 Water (Purge and Trap)											
Blank (B9I1810-BLK1)					Prepared & Analyzed: 09/18/09						
1,1,1,2-Tetrachloroethane	< 0.28	1.0	0.28	ug/L							
1,1,1-Trichloroethane	< 0.17	1.0	0.17	ug/L							
1,1,2,2-Tetrachloroethane	< 0.13	1.0	0.13	ug/L							
1,1,2-Trichloroethane	< 0.19	1.0	0.19	ug/L							
1,1,2-Trichlorotrifluoroethane	< 0.28	1.0	0.28	ug/L							
1,1-Dichloroethane	< 0.11	1.0	0.11	ug/L							
1,1-Dichloroethene	< 0.12	1.0	0.12	ug/L							
1,1-Dichloropropene	< 0.15	1.0	0.15	ug/L							
1,2,3-Trichlorobenzene	< 0.47	5.0	0.47	ug/L							
1,2,3-Trichloropropane	< 0.24	2.5	0.24	ug/L							
1,2,4-Trichlorobenzene	< 0.32	5.0	0.32	ug/L							
1,2,4-Trimethylbenzene	< 0.17	1.0	0.17	ug/L							
1,2-Dibromo-3-chloropropane	< 0.60	5.0	0.60	ug/L							
1,2-Dibromoethane (EDB)	< 0.37	2.5	0.37	ug/L							
1,2-Dichlorobenzene	< 0.16	1.0	0.16	ug/L							
1,2-Dichloroethane	< 0.18	1.0	0.18	ug/L							
1,2-Dichloropropane	< 0.21	1.0	0.21	ug/L							
1,3,5-Trimethylbenzene	< 0.18	1.0	0.18	ug/L							
1,3-Dichlorobenzene	< 0.21	1.0	0.21	ug/L							
1,3-Dichloropropane	< 0.15	1.0	0.15	ug/L							
1,4-Dichlorobenzene	< 0.17	1.0	0.17	ug/L							
2,2-Dichloropropane	< 0.58	5.0	0.58	ug/L							
2-Butanone	< 0.67	20	0.67	ug/L							
2-Chlorotoluene	< 0.17	1.0	0.17	ug/L							
4-Chlorotoluene	< 0.14	1.0	0.14	ug/L							
Acetone	< 2.8	20	2.8	ug/L							
Allyl chloride	< 0.76	5.0	0.76	ug/L							
Benzene	< 0.093	1.0	0.093	ug/L							
Bromobenzene	< 0.17	1.0	0.17	ug/L							
Bromochloromethane	< 0.21	1.0	0.21	ug/L							
Bromodichloromethane	< 0.22	1.0	0.22	ug/L							
Bromoform	< 0.50	5.0	0.50	ug/L							
Bromomethane	< 0.95	5.0	0.95	ug/L							
Carbon tetrachloride	< 0.16	1.0	0.16	ug/L							
Chlorobenzene	< 0.15	1.0	0.15	ug/L							
Chloroethane	< 0.46	2.5	0.46	ug/L							
Chloroform	< 0.19	1.0	0.19	ug/L							
Chloromethane	< 0.37	2.5	0.37	ug/L							
cis-1,2-Dichloroethene	< 0.19	1.0	0.19	ug/L							

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1810 - EPA 5030 Water (Purge and Trap)											
Blank (B9I1810-BLK1)					Prepared & Analyzed: 09/18/09						
cis-1,3-Dichloropropene	< 0.16	1.0	0.16	ug/L							
Dibromochloromethane	< 0.50	2.5	0.50	ug/L							
Dibromomethane	< 0.30	2.5	0.30	ug/L							
Dichlorodifluoromethane	< 0.58	5.0	0.58	ug/L							
Dichlorofluoromethane	< 0.31	1.0	0.31	ug/L							
Ethyl ether	< 0.53	5.0	0.53	ug/L							
Ethylbenzene	< 0.21	1.0	0.21	ug/L							
Hexachlorobutadiene	< 0.76	10	0.76	ug/L							
Isopropylbenzene	< 0.17	1.0	0.17	ug/L							
m,p-Xylene	< 0.42	2.0	0.42	ug/L							
Methyl isobutyl ketone	< 1.1	5.0	1.1	ug/L							
Methyl tert-butyl ether	< 0.13	1.0	0.13	ug/L							
Methylene chloride	< 0.65	5.0	0.65	ug/L							
Naphthalene	< 0.40	5.0	0.40	ug/L							
n-Butylbenzene	< 0.32	2.5	0.32	ug/L							
n-Propylbenzene	< 0.13	1.0	0.13	ug/L							
o-Xylene	< 0.18	1.0	0.18	ug/L							
p-Isopropyltoluene	< 0.30	2.5	0.30	ug/L							
sec-Butylbenzene	< 0.22	1.0	0.22	ug/L							
Styrene	< 0.13	1.0	0.13	ug/L							
tert-Butylbenzene	< 0.19	1.0	0.19	ug/L							
Tetrachloroethene	< 0.20	1.0	0.20	ug/L							
Tetrahydrofuran	< 0.77	20	0.77	ug/L							
Toluene	< 0.21	1.0	0.21	ug/L							
trans-1,2-Dichloroethene	< 0.29	1.0	0.29	ug/L							
trans-1,3-Dichloropropene	< 0.17	1.0	0.17	ug/L							
Trichloroethene	< 0.20	1.0	0.20	ug/L							
Trichlorofluoromethane	< 0.17	1.0	0.17	ug/L							
Vinyl chloride	< 0.087	1.0	0.087	ug/L							
Surrogate: 4-Bromofluorobenzene	*59.7*			*ug/L*	*55.0*		*109*	*80-121*			
Surrogate: Dibromofluoromethane	*56.1*			*ug/L*	*55.0*		*102*	*79.9-121*			
Surrogate: Toluene-d8	*55.5*			*ug/L*	*55.0*		*101*	*80-120*			
LCS (B9I1810-BS1)					Prepared & Analyzed: 09/18/09						
1,1,2,2-Tetrachloroethane	52.1	1.0	0.13	ug/L	50.0		104	80-121			
1,1-Dichloroethane	46.3	1.0	0.11	ug/L	50.0		92.6	80-125			
1,1-Dichloroethene	44.5	1.0	0.12	ug/L	50.0		89.0	80-125			
1,3,5-Trimethylbenzene	52.8	1.0	0.18	ug/L	50.0		106	75.4-125			
1,4-Dichlorobenzene	52.9	1.0	0.17	ug/L	50.0		106	75-125			
2-Chlorotoluene	51.2	1.0	0.17	ug/L	50.0		102	75.4-125			

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1810 - EPA 5030 Water (Purge and Trap)											
LCS (B9I1810-BS1)					Prepared & Analyzed: 09/18/09						
Benzene	49.0	1.0	0.093	ug/L	50.0		97.9	80-120			
Bromoform	54.7	5.0	0.50	ug/L	50.0		109	80-120			
Chlorobenzene	54.2	1.0	0.15	ug/L	50.0		108	80-120			
Chloroform	46.3	1.0	0.19	ug/L	50.0		92.6	80-123			
Ethylbenzene	54.2	1.0	0.21	ug/L	50.0		108	80-120			
n-Butylbenzene	51.3	2.5	0.32	ug/L	50.0		103	75-125			
n-Propylbenzene	53.9	1.0	0.13	ug/L	50.0		108	75.8-125			
Toluene	50.8	1.0	0.21	ug/L	50.0		102	80-120			
Trichloroethene	50.0	1.0	0.20	ug/L	50.0		100	80-120			
Vinyl chloride	42.7	1.0	0.087	ug/L	50.0		85.4	75-130			
Surrogate: 4-Bromofluorobenzene	*59.6*			*ug/L*	*55.0*		*108*	*80-121*			
Surrogate: Dibromofluoromethane	*53.8*			*ug/L*	*55.0*		*97.8*	*79.9-121*			
Surrogate: Toluene-d8	*53.8*			*ug/L*	*55.0*		*97.8*	*80-120*			
Matrix Spike (B9I1810-MS1)		**Source: 0903969-01**			Prepared & Analyzed: 09/18/09						
1,1,2,2-Tetrachloroethane	51.1	1.0	0.13	ug/L	50.0	<1.0	102	76.8-125			
1,1-Dichloroethane	45.0	1.0	0.11	ug/L	50.0	<1.0	89.9	80-125			
1,1-Dichloroethene	42.7	1.0	0.12	ug/L	50.0	<1.0	85.4	80-125			
1,3,5-Trimethylbenzene	51.3	1.0	0.18	ug/L	50.0	<1.0	103	75-125			
1,4-Dichlorobenzene	51.8	1.0	0.17	ug/L	50.0	<1.0	104	75-125			
2-Chlorotoluene	48.5	1.0	0.17	ug/L	50.0	<1.0	97.0	75-125			
Benzene	46.2	1.0	0.093	ug/L	50.0	<1.0	92.4	80-120			
Bromoform	52.5	5.0	0.50	ug/L	50.0	<5.0	105	80-120			
Chlorobenzene	50.1	1.0	0.15	ug/L	50.0	<1.0	100	80-120			
Chloroform	44.8	1.0	0.19	ug/L	50.0	<1.0	89.7	79.8-125			
Ethylbenzene	50.8	1.0	0.21	ug/L	50.0	<1.0	102	80-120			
n-Butylbenzene	48.6	2.5	0.32	ug/L	50.0	<2.5	97.2	75-130			
n-Propylbenzene	50.7	1.0	0.13	ug/L	50.0	<1.0	101	75-125			
Toluene	48.3	1.0	0.21	ug/L	50.0	<1.0	96.7	80-120			
Trichloroethene	47.8	1.0	0.20	ug/L	50.0	<1.0	95.6	80-120			
Vinyl chloride	40.8	1.0	0.087	ug/L	50.0	<1.0	81.7	75-130			
Surrogate: 4-Bromofluorobenzene	*58.8*			*ug/L*	*55.0*		*107*	*80-121*			
Surrogate: Dibromofluoromethane	*53.0*			*ug/L*	*55.0*		*96.4*	*79.9-121*			
Surrogate: Toluene-d8	*54.8*			*ug/L*	*55.0*		*99.6*	*80-120*			
Matrix Spike Dup (B9I1810-MSD1)		**Source: 0903969-01**			Prepared & Analyzed: 09/18/09						
1,1,2,2-Tetrachloroethane	51.6	1.0	0.13	ug/L	50.0	<1.0	103	76.8-125	0.917	20	
1,1-Dichloroethane	45.8	1.0	0.11	ug/L	50.0	<1.0	91.5	80-125	1.79	20	
1,1-Dichloroethene	44.4	1.0	0.12	ug/L	50.0	<1.0	88.8	80-125	3.85	20	
1,3,5-Trimethylbenzene	51.8	1.0	0.18	ug/L	50.0	<1.0	104	75-125	0.985	20	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1810 - EPA 5030 Water (Purge and Trap)											
Matrix Spike Dup (B9I1810-MSD1)		**Source: 0903969-01**			Prepared & Analyzed: 09/18/09						
1,4-Dichlorobenzene	51.5	1.0	0.17	ug/L	50.0	<1.0	103	75-125	0.477	20	
2-Chlorotoluene	50.1	1.0	0.17	ug/L	50.0	<1.0	100	75-125	3.21	20	
Benzene	48.6	1.0	0.093	ug/L	50.0	<1.0	97.2	80-120	5.08	20	
Bromoform	52.5	5.0	0.50	ug/L	50.0	<5.0	105	80-120	0.0663	20	
Chlorobenzene	50.3	1.0	0.15	ug/L	50.0	<1.0	101	80-120	0.494	20	
Chloroform	46.2	1.0	0.19	ug/L	50.0	<1.0	92.5	79.8-125	3.08	20	
Ethylbenzene	50.2	1.0	0.21	ug/L	50.0	<1.0	100	80-120	1.21	20	
n-Butylbenzene	50.8	2.5	0.32	ug/L	50.0	<2.5	102	75-130	4.50	20	
n-Propylbenzene	51.6	1.0	0.13	ug/L	50.0	<1.0	103	75-125	1.83	20	
Toluene	50.8	1.0	0.21	ug/L	50.0	<1.0	102	80-120	4.93	20	
Trichloroethene	48.4	1.0	0.20	ug/L	50.0	<1.0	96.8	80-120	1.34	20	
Vinyl chloride	42.2	1.0	0.087	ug/L	50.0	<1.0	84.4	75-130	3.27	20	
Surrogate: 4-Bromofluorobenzene	*60.7*			*ug/L*	*55.0*		*110*	*80-121*			
Surrogate: Dibromofluoromethane	*54.6*			*ug/L*	*55.0*		*99.2*	*79.9-121*			
Surrogate: Toluene-d8	*56.8*			*ug/L*	*55.0*		*103*	*80-120*			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904026
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

Notes and Definitions

M2	Matrix spike recovery was low, the associated blank spike recovery was acceptable.
J	Parameter was present between the MDL and RL and should be considered an estimated value
<	Less than value listed
dry	Sample results reported on a dry weight basis
NA	Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL	Method Detection Limit
RL	Reporting Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
MS	Matrix Spike = Laboratory Fortified Matrix (LFM)

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Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

COC 1 of 1

Project Manager: SME

Project QC Contact: KJN

Sampled by: ESC

Laboratory: Legend

Project Number: 23/19-805.07 SIRI 300

Project Name: UMA SSI/RI

Sample Origination State: MN (use two letter postal state abbreviation)

COC Number: № 29011

	Location	Start Depth	Stop Depth	Depth Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Water: VOCs (HCl) #1	Water: SVOCs (unpreserved) #2	Water: Dissolved Metals (HNO_3)	Water: Total Metals (HNO_3)	Water: General (unpreserved) #3	Water: Diesel Range Organics (HCl)	Water: Nutrients (H_2SO_4) #4	Soil: VOCs (tared MeOH) #1	Soil: GRO, BTEX (tared MeOH) #1	Soil: DRO (tared unpreserved)	Soil: Metals (unpreserved)	Soil: SVOCs (unpreserved) #2	Soil: % Solids (plastic vial, unpres.)	Soil: Moisture	Total Number Of Containers	Analysis
01	1. SOC5-GP3	—	—	—	9-9-09	0830	X		X				1	1												2	SVOCs, PPL Metals (ff) See attached list
02	2. SOC5-GP11	—	—	—	9-9-09	0900	X		X			3	1	1													SVOCs, VOCs, PPL Metals (ff) See attached list
03	3. SOC4-GP1	0.5	2	ft	9-9-09	1515		X	X												1	1		1		3	SVOCs, PPL Metals See attached list
04	4. SOC4-GP6	1	2	ft	9-9-09	1720		X	X												1	1		1		3	"
	5.																										
	6.																										
	7.																										
	8.																										
	9.																										
	10.																										

Common Parameter/Container - Preservation Key

- #1 - Volatile Organics = BTEX, GRO, TPH, 8260 Full List
- #2 - Semivolatile Organics = PAHs, PCP, Dioxins, 8270 Full List, Herbicide/Pesticide/PCBs
- #3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
- #4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
Eliz Considine	Y N	9-10-09	0645			
Relinquished By:	On Ice? Y N	Date	Time	Received by:	Date	Time
				[illegible]	9/10/09	10:47

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other: _____

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

RR 78

H:RLG\STDFORMS\Chain Of Custody Form 2008 RLG Rev. 09/01/09

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [1]	Minnesota Tier SLV [4]	Minnesota SRV [5]	Minnesota Tier II Industrial SRV [6]
Metals										
Antimony	7440-36-0	Soil/Solid	6010B	0.0055	0.50	mg/kg	--	2.7	12	100
Arsenic	7440-38-2	Soil/Solid	6010B	0.10	0.50	mg/kg	--	15.1	9	20
Beryllium	7440-41-7	Soil/Solid	6010B	0.011	0.25	mg/kg	--	1.4	55	230
Cadmium	7440-43-9	Soil/Solid	6010B	0.025	0.25	mg/kg	--	4.4	25	200
Chromium	7440-47-3	Soil/Solid	6010B	0.012	0.50	mg/kg	--	1000000 (8)	44000 (8)	100000 (8)
Copper	7440-50-8	Soil/Solid	6010B	0.070	1.0	mg/kg	--	400	100	9000
Lead	7439-92-1	Soil/Solid	6010B	0.034	1.0	mg/kg	--	525	300	700
Nickel	7440-02-0	Soil/Solid	6010B	0.014	0.25	mg/kg	--	88	560	2500
Selenium	7782-49-2	Soil/Solid	6010B	0.11	1.0	mg/kg	--	1.5	160	1300
Silver	7440-22-4	Soil/Solid	6010B	0.0090	0.25	mg/kg	--	3.9	160	1300
Thallium	7440-28-0	Soil/Solid	6010B	0.13	2.0	mg/kg	--	--	3	21
Zinc	7440-66-6	Soil/Solid	6010B	0.22	1.0	mg/kg	--	1500	8700	75000
Metals										
Antimony	7440-36-0	Water/Liquid	6020	0.046	0.500	ug/L	6	--	--	--
Arsenic	7440-38-2	Water/Liquid	6010B	2	10.000	ug/L	--	--	--	--
Beryllium	7440-41-7	Water/Liquid	6020	0.027	0.5000	ug/L	0.08	--	--	--
Cadmium	7440-43-9	Water/Liquid	6010B	0.099	1.0000	ug/L	4	--	--	--
Chromium	7440-47-3	Water/Liquid	6010B	0.24	10.000	ug/L	100 (5)	--	--	--
Copper	7440-50-8	Water/Liquid	6010B	1.4	20.000	ug/L	--	--	--	--
Lead	7439-92-1	Water/Liquid	6010B	0.68	3.0000	ug/L	--	--	--	--
Nickel	7440-02-0	Water/Liquid	6010B	0.28	5.0000	ug/L	100	--	--	--
Selenium	7782-49-2	Water/Liquid	6010B	2.2	20.000	ug/L	30	--	--	--
Silver	7440-22-4	Water/Liquid	6010B	0.18	5.0000	ug/L	30	--	--	--
Thallium	7440-28-0	Water/Liquid	6020	0.0081	0.500	ug/L	0.5	--	--	--
Zinc	7440-66-6	Water/Liquid	6010B	4.4	20.000	ug/L	2000	--	--	--
Mercury										
Mercury	7439-97-6	Soil/Solid	7471A	0.0031	0.10	mg/kg	--	1.5 C	0.5	1.5
Mercury	7439-97-6	Water/Liquid	7470A	0.000031	0.00020	mg/L	--	--	--	--
Nitrate+Nitrite Nitrogen as N (Braun)										
N+N Nitrogen as N	NA	Water/Liquid	SM4500-NO3-F	0.007	0.02	mg/L	10 (3)	--	--	--
Total Kjeldahl Nitrogen (Braun)										
TKN as N	NA	Water/Liquid	SM4500-NH3-C	0.17	0.5	mg/L	--	--	--	--
Perchlorate (TA)										
Perchlorate	NA	Water/Liquid	314	0.36	4	ug/L	--	--	--	--
Nitrocellulose (TA)										
Nitrocellulose	NA	Soil/Solid	353.2Mod	0.78	0.5	mg/kg	--	--	--	--
Nitrocellulose (TA)										
Nitrocellulose	NA	Water/Liquid	353.2Mod	0.124	0.5	mg/L	--	--	--	--
Organochlorine Pesticides										
4,4'-DDD	72-54-8	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	56	125
4,4'-DDE	72-55-9	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	40	80
4,4'-DDT	50-29-3	Soil/Solid	8081A	0.0020	0.040	mg/kg	--	--	15	88
a-Chlordane	5103-71-9	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	--	--
Aldrin	309-00-2	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	1	2
alpha-BHC	319-84-6	Soil/Solid	8081A	0.0011	0.040	mg/kg	--	--	2	3.5
beta-BHC	319-85-7	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	7	15
delta-BHC	319-86-8	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	--	--
Dieldrin	60-57-1	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	0.8	2
Endosulfan I	959-98-8	Soil/Solid	8081A	0.0013	0.040	mg/kg	--	--	--	--
Endosulfan II	891-86-1	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
Endosulfan sulfate	1031-07-8	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
Endrin	72-20-8	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	8	56
Endrin aldehyde	7421-93-4	Soil/Solid	8081A	0.0041	0.040	mg/kg	--	--	--	--
Endrin ketone	53494-70-5	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
gamma-BHC (Lindane)	58-89-9	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	9	15
gamma-Chlordane	5566-34-7	Soil/Solid	8081A	0.0017	0.040	mg/kg	--	--	--	--
Heptachlor	76-44-8	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	2	3.5
Heptachlor epoxide	1024-57-3	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	0.4	3
Methoxychlor	72-43-5	Soil/Solid	8081A	0.0019	0.040	mg/kg	--	--	11	50
Toxaphene	8001-35-2	Soil/Solid	8081A	0.015	0.080	mg/kg	--	--	13	28
Organochlorine Pesticides										
4,4'-DDD	72-54-8	Water/Liquid	8081A	0.026	0.40	ug/L	1	--	--	--
4,4'-DDE	72-55-9	Water/Liquid	8081A	0.037	0.40	ug/L	1	--	--	--
4,4'-DDT	50-29-3	Water/Liquid	8081A	0.031	0.40	ug/L	1	--	--	--
a-Chlordane	5103-71-9	Water/Liquid	8081A	0.030	0.40	ug/L	--	--	--	--
Aldrin	309-00-2	Water/Liquid	8081A	0.036	0.40	ug/L	--	--	--	--
alpha-BHC	319-84-6	Water/Liquid	8081A	0.028	0.40	ug/L	--	--	--	--
beta-BHC	319-85-7	Water/Liquid	8081A	0.026	0.40	ug/L	--	--	--	--
delta-BHC	319-86-8	Water/Liquid	8081A	0.023	0.40	ug/L	--	--	--	--
Dieldrin	60-57-1	Water/Liquid	8081A	0.031	0.40	ug/L	0.006 (4)	--	--	--
Endosulfan I	959-98-8	Water/Liquid	8081A	0.032	0.40	ug/L	--	--	--	--
Endosulfan II	891-86-1	Water/Liquid	8081A	0.035	0.40	ug/L	--	--	--	--

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [1]	Minnesota Tier SLV [4]	Minnesota SRV [5]	Minnesota Tier II Industrial SRV [6]
Endosulfan sulfate	1031-07-8	Water/Liquid	8081A	0.034	0.40	ug/L	--	--	--	--
Endrin	72-20-8	Water/Liquid	8081A	0.029	0.40	ug/L	--	--	--	--
Endrin aldehyde	7421-93-4	Water/Liquid	8081A	0.044	0.40	ug/L	--	--	--	--
Endrin ketone	53494-70-5	Water/Liquid	8081A	0.031	0.40	ug/L	--	--	--	--
gamma-BHC (Lindane)	58-89-9	Water/Liquid	8081A	0.024	0.40	ug/L	--	--	--	--
gamma-Chlordane	5566-34-7	Water/Liquid	8081A	0.030	0.40	ug/L	--	--	--	--
Heptachlor	76-44-8	Water/Liquid	8081A	0.028	0.40	ug/L	0.08	--	--	--
Heptachlor epoxide	1024-57-3	Water/Liquid	8081A	0.030	0.40	ug/L	0.04	--	--	--
Methoxychlor	72-43-5	Water/Liquid	8081A	0.032	0.40	ug/L	--	--	--	--
Toxaphene	8001-35-2	Water/Liquid	8081A	0.069	1.00	ug/L	0.3	--	--	--
MDA List 1 Pesticides (Braun)										
EPTC	759-94-4	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Propachlor	1918-16-7	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Ethalfluralin	55283-68-6	Soil/Solid	8270C	0.014	0.04	mg/kg	--	--	--	--
Deisopropylatrazine	1007-28-9	Soil/Solid	8270C	0.0080	0.04	mg/kg	--	--	--	--
Trifluralin	1582-09-8	Soil/Solid	8270C	0.014	0.04	mg/kg	--	--	--	--
Desethylatrazine	6190-65-4	Soil/Solid	8270C	0.011	0.04	mg/kg	--	--	--	--
Phorate	298-02-2	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Prometon	1610-18-0	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Simazine	122-34-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Atrazine	1912-24-9	Soil/Solid	8270C	0.0100	0.04	mg/kg	--	--	--	--
Propazine	139-40-2	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Terbufos	13071-79-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	0.6	3.5
Fonofos	944-22-9	Soil/Solid	8270C	0.0040	0.04	mg/kg	--	--	--	--
Triallate	2303-17-5	Soil/Solid	8270C	0.0050	0.04	mg/kg	--	--	--	--
Metribuzin	21087-64-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Dimethenamid	87674-68-8	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Acetochlor	34256-82-1	Soil/Solid	8270C	0.010	0.04	mg/kg	--	--	--	--
Alachlor	15972-60-8	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Cyanazine	21725-46-2	Soil/Solid	8270C	0.0080	0.04	mg/kg	--	--	--	--
Metolachlor	51218-45-2	Soil/Solid	8270C	0.0030	0.04	mg/kg	--	--	435	3300
Chlorpyrifos	2921-88-2	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Pendimethalin	40487-42-1	Soil/Solid	8270C	0.016	0.04	mg/kg	--	--	--	--
MDA List 1 Pesticides (Braun)										
EPTC	759-94-4	Water/Liquid	8270C	0.22	0.50	ug/L	200	--	--	--
Propachlor	1918-16-7	Water/Liquid	8270C	0.14	0.50	ug/L	--	--	--	--
Ethalfluralin	55283-68-6	Water/Liquid	8270C	0.47	0.50	ug/L	300 (1)	--	--	--
Deisopropylatrazine	1007-28-9	Water/Liquid	8270C	0.26	0.50	ug/L	--	--	--	--
Trifluralin	1582-09-8	Water/Liquid	8270C	0.21	0.50	ug/L	5 (1)	--	--	--
Desethylatrazine	6190-65-4	Water/Liquid	8270C	0.29	0.50	ug/L	--	--	--	--
Phorate	298-02-2	Water/Liquid	8270C	0.58	1.00	ug/L	1 (1)	--	--	--
Prometon	1610-18-0	Water/Liquid	8270C	0.29	0.50	ug/L	100	--	--	--
Simazine	122-34-9	Water/Liquid	8270C	0.32	0.50	ug/L	4 (3)	--	--	--
Atrazine	1912-24-9	Water/Liquid	8270C	0.24	0.50	ug/L	3 (3)	--	--	--
Propazine	139-40-2	Water/Liquid	8270C	0.21	0.50	ug/L	10 (1)	--	--	--
Terbufos	13071-79-9	Water/Liquid	8270C	0.54	1.00	ug/L	0.2 (1)	--	--	--
Fonofos	944-22-9	Water/Liquid	8270C	0.30	0.50	ug/L	10 (1)	--	--	--
Triallate	2303-17-5	Water/Liquid	8270C	0.34	0.50	ug/L	9 (1)	--	--	--
Metribuzin	21087-64-9	Water/Liquid	8270C	0.35	0.50	ug/L	200	--	--	--
Dimethenamid	87674-68-8	Water/Liquid	8270C	0.24	0.50	ug/L	40 (1)	--	--	--
Acetochlor	34256-82-1	Water/Liquid	8270C	0.25	0.50	ug/L	9 (4)	--	--	--
Alachlor	15972-60-8	Water/Liquid	8270C	0.19	0.50	ug/L	5 (4)	--	--	--
Cyanazine	21725-46-2	Water/Liquid	8270C	0.48	0.50	ug/L	1	--	--	--
Metolachlor	51218-45-2	Water/Liquid	8270C	0.28	0.50	ug/L	300 (4)	--	--	--
Chlorpyrifos	2921-88-2	Water/Liquid	8270C	0.34	0.50	ug/L	20 (1)	--	--	--
Pendimethalin	40487-42-1	Water/Liquid	8270C	0.25	0.50	ug/L	--	--	--	--
MDA List 2 Pesticides (Braun)										
Dicamba	1918-00-9	Soil/Solid	8270C	0.008	0.50	mg/kg	--	--	--	--
MCPA	94-74-6	Soil/Solid	8270C	0.014	0.50	mg/kg	--	--	16	110
2,4-D	94-75-7	Soil/Solid	8270C	0.012	0.50	mg/kg	--	--	285	2200
Trichlopyr	55336-06-3	Soil/Solid	8270C	0.008	0.50	mg/kg	--	--	--	--
Pentachlorophenol	87-86-5	Soil/Solid	8270C	0.007	0.50	mg/kg	--	--	80	120
2,4,5-T.P.	93-72-1	Soil/Solid	8270C	0.007	0.50	mg/kg	--	--	--	--
2,4,5-T	93-76-5	Soil/Solid	8270C	0.009	0.50	mg/kg	--	--	290	2150
Dinoseb	88-85-7	Soil/Solid	8270C	0.005	0.50	mg/kg	--	--	--	--
2,4-D.B.	94-82-6	Soil/Solid	8270C	0.011	0.50	mg/kg	--	--	226	1750
Bentazone	25057-89-0	Soil/Solid	8270C	0.009	0.50	mg/kg	--	--	--	--
Picloram	1918-02-1	Soil/Solid	8270C	0.011	0.50	mg/kg	--	--	2000	15000
MDA List 2 Pesticides (Braun)										
Dicamba	1918-00-9	Water/Liquid	8270C	0.38	0.50	ug/L	200	--	--	--

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Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [1]	Minnesota Tier SLV [2]	Minnesota SRV [3]	Minnesota Tier II Industrial SRV [4]
MCPA	94-74-6	Water/Liquid	8270C	0.29	0.30	ug/L	--	--	--	--
2,4-D	94-75-7	Water/Liquid	8270C	0.26	0.50	ug/L	70	--	--	--
Trichlopyr	55336-06-3	Water/Liquid	8270C	0.41	0.50	ug/L	300 (1)	--	--	--
Pentachlorophenol	87-86-5	Water/Liquid	8270C	0.39	0.50	ug/L	1 (3)	--	--	--
2,4,5-T.P.	93-72-1	Water/Liquid	8270C	0.28	0.50	ug/L	50 (3)	--	--	--
2,4,5-T	93-76-5	Water/Liquid	8270C	0.31	0.50	ug/L	--	--	--	--
Dinoseb	88-85-7	Water/Liquid	8270C	0.34	0.50	ug/L	7 (1)	--	--	--
2,4-D.B.	94-82-6	Water/Liquid	8270C	0.15	0.50	ug/L	60 (1)	--	--	--
Bentazone	25057-89-0	Water/Liquid	8270C	0.22	0.50	ug/L	200 (1)	--	--	--
Picloram	1918-02-1	Water/Liquid	8270C	0.25	0.50	ug/L	500	--	--	--
PCBs										
Aroclor 1016	12674-11-2	Soil/Solid	8082	0.017	0.20	mg/kg	--	--	--	--
Aroclor 1221	11104-28-2	Soil/Solid	8082	0.039	0.20	mg/kg	--	--	--	--
Aroclor 1232	11141-16-5	Soil/Solid	8082	0.010	0.20	mg/kg	--	--	--	--
Aroclor 1242	53469-21-9	Soil/Solid	8082	0.016	0.20	mg/kg	--	--	--	--
Aroclor 1248	12672-29-6	Soil/Solid	8082	0.0078	0.20	mg/kg	--	--	--	--
Aroclor 1254	11097-69-1	Soil/Solid	8082	0.0071	0.20	mg/kg	--	--	--	--
Aroclor 1260	11096-82-5	Soil/Solid	8082	0.015	0.20	mg/kg	--	--	--	--
PCBs										
Aroclor 1016	12674-11-2	Water/Liquid	8082	0.41	2.0	ug/L	--	--	--	--
Aroclor 1221	11104-28-2	Water/Liquid	8082	0.36	2.0	ug/L	--	--	--	--
Aroclor 1232	11141-16-5	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1242	53469-21-9	Water/Liquid	8082	0.58	2.0	ug/L	--	--	--	--
Aroclor 1248	12672-29-6	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1254	11097-69-1	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1260	11096-82-5	Water/Liquid	8082	0.32	2.0	ug/L	--	--	--	--
VOCs - Soil/Solid										
1,1,1,2-Tetrachloroethane	630-20-6	Soil/Solid	8260B	0.019	0.25	mg/kg	--	1.4	31	51
1,1,1-Trichloroethane	71-55-6	Soil/Solid	8260B	0.0098	0.25	mg/kg	--	3.5	140	472
1,1,2,2-Tetrachloroethane	79-34-5	Soil/Solid	8260B	0.012	0.25	mg/kg	--	0.005	3.5	6.5
1,1,2-Trichloroethane	79-00-5	Soil/Solid	8260B	0.022	0.25	mg/kg	--	0.010	9	14
1,1,2-Trichlorotrifluoroethane	76-13-1	Soil/Solid	8260B	0.052	0.25	mg/kg	--	2580	3745	5430
1,1-Dichloroethane	75-34-3	Soil/Solid	8260B	0.013	0.25	mg/kg	--	0.18	34	55
1,1-Dichloroethene	75-35-4	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.025	20	60
1,1-Dichloropropene	563-58-6	Soil/Solid	8260B	0.021	0.25	mg/kg	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	Soil/Solid	8260B	0.063	0.50	mg/kg	--	--	--	--
1,2,3-Trichloropropane	96-18-4	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.35	--	--
1,2,4-Trichlorobenzene	120-82-1	Soil/Solid	8260B	0.052	0.50	mg/kg	--	0.31	200	985
1,2,4-Trimethylbenzene	95-63-6	Soil/Solid	8260B	0.013	0.25	mg/kg	--	--	8	25
1,2-Dibromo-3-chloropropane	96-12-8	Soil/Solid	8260B	0.079	0.50	mg/kg	--	0.001	--	--
1,2-Dibromoethane (EDB)	106-93-4	Soil/Solid	8260B	0.0056	0.25	mg/kg	--	0.00001	0.3	0.5
1,2-Dichlorobenzene	95-50-1	Soil/Solid	8260B	0.0055	0.25	mg/kg	--	8.1	26	75
1,2-Dichloroethane	107-06-2	Soil/Solid	8260B	0.030	0.25	mg/kg	--	0.010	4	6
1,2-Dichloropropane	78-87-5	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.011	4	6
1,3,5-Trimethylbenzene	108-67-8	Soil/Solid	8260B	0.0077	0.25	mg/kg	--	--	3	10
1,3-Dichlorobenzene	541-73-1	Soil/Solid	8260B	0.015	0.25	mg/kg	--	4.2	26	200
1,3-Dichloropropane	142-28-9	Soil/Solid	8260B	0.017	0.25	mg/kg	--	--	--	--
1,4-Dichlorobenzene	106-46-7	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.13	30	50
2,2-Dichloropropane	594-20-7	Soil/Solid	8260B	0.034	0.50	mg/kg	--	--	--	--
2-Butanone	78-93-3	Soil/Solid	8260B	0.069	2.0	mg/kg	--	--	5500	19000
2-Chlorotoluene	95-49-8	Soil/Solid	8260B	0.015	0.25	mg/kg	--	--	436	436
4-Chlorotoluene	106-43-4	Soil/Solid	8260B	0.015	0.25	mg/kg	--	--	--	--
Acetone	67-64-1	Soil/Solid	8260B	0.16	2.0	mg/kg	--	0.7	340	1000
Allyl chloride	107-05-1	Soil/Solid	8260B	0.016	0.50	mg/kg	--	0.032	--	--
Benzene	71-43-2	Soil/Solid	8260B	0.0070	0.25	mg/kg	--	0.034	6	10
Bromobenzene	108-86-1	Soil/Solid	8260B	0.017	0.25	mg/kg	--	--	--	--
Bromochloromethane	74-97-5	Soil/Solid	8260B	0.021	0.25	mg/kg	--	0.15	--	--
Bromodichloromethane	75-27-4	Soil/Solid	8260B	0.020	0.25	mg/kg	--	0.013	10	17
Bromoform	75-25-2	Soil/Solid	8260B	0.015	0.50	mg/kg	--	0.14	370	650
Bromomethane	74-83-9	Soil/Solid	8260B	0.012	0.50	mg/kg	--	0.5	0.7	2
Carbon tetrachloride	56-23-5	Soil/Solid	8260B	0.018	0.25	mg/kg	--	0.023	0.3	0.9
Chlorobenzene	108-90-7	Soil/Solid	8260B	0.011	0.25	mg/kg	--	1.1	11	32
Chloroethane	75-00-3	Soil/Solid	8260B	0.045	0.25	mg/kg	--	--	1000	3000
Chloroform	67-66-3	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.17	2.5	4
Chloromethane	74-87-3	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.006	8	23
cis-1,2-Dichloroethene	156-59-2	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.14	8	22
cis-1,3-Dichloropropene	10061-01-5	Soil/Solid	8260B	0.0098	0.25	mg/kg	--	0.005 M	--	--
Dibromochloromethane	124-48-1	Soil/Solid	8260B	0.014	0.25	mg/kg	--	0.03	12	20
Dibromomethane	74-95-3	Soil/Solid	8260B	0.021	0.25	mg/kg	--	--	260	1860
Dichlorodifluoromethane	75-71-8	Soil/Solid	8260B	0.035	0.50	mg/kg	--	38	16	50
Dichlorofluoromethane	75-43-4	Soil/Solid	8260B	0.014	0.25	mg/kg	--	--	--	--
Ethyl ether	60-29-7	Soil/Solid	8260B	0.017	0.50	mg/kg	--	1.2	--	--
Ethylbenzene	100-41-4	Soil/Solid	8260B	0.011	0.25	mg/kg	--	4.7	200	200
Hexachlorobutadiene	87-68-3	Soil/Solid	8260B	0.11	1.0	mg/kg	--	25	6	37
Isopropylbenzene	98-82-8	Soil/Solid	8260B	0.019	0.25	mg/kg	--	18	30	87

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits	Minnesota Tier SLV [a]	Minnesota SRV [b]	Minnesota Tier II Industrial SRV [b]
m,p-Xylene	108-38-3/ 106-42-3	Soil/Solid	8260B	0.024	0.50	mg/kg	--	45 M	45 M	130 M
Methyl isobutyl ketone	108-10-1	Soil/Solid	8260B	0.031	0.50	mg/kg	--	0.42	1700	9000
Methyl tert-butyl ether	1634-04-4	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.027	--	--
Methylene chloride	75-09-2	Soil/Solid	8260B	0.043	1.0	mg/kg	--	0.068	97	158
Naphthalene	91-20-3	Soil/Solid	8260B	0.060	0.50	mg/kg	--	7.5	10	28
n-Butylbenzene	104-51-8	Soil/Solid	8260B	0.012	0.25	mg/kg	--	--	30	92
n-Propylbenzene	103-65-1	Soil/Solid	8260B	0.013	0.25	mg/kg	--	--	30	93
o-Xylene	95-47-6	Soil/Solid	8260B	0.015	0.25	mg/kg	--	45 M	45 M	130 M
p-Isopropyltoluene	99-87-6	Soil/Solid	8260B	0.014	0.25	mg/kg	--	--	--	--
sec-Butylbenzene	135-98-8	Soil/Solid	8260B	0.012	0.25	mg/kg	--	--	25	70
Styrene	100-42-5	Soil/Solid	8260B	0.012	0.25	mg/kg	--	1.9	210	600
tert-Butylbenzene	98-06-6	Soil/Solid	8260B	0.0073	0.25	mg/kg	--	--	30	90
Tetrachloroethene	127-18-4	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.068	72	131
Tetrahydrofuran	109-99-9	Soil/Solid	8260B	0.068	2.0	mg/kg	--	0.16	--	--
Toluene	108-88-3	Soil/Solid	8260B	0.0063	0.25	mg/kg	--	6.4	107	305
trans-1,2-Dichloroethene	156-60-5	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.27	11	33
trans-1,3-Dichloropropene	10061-02-6	Soil/Solid	8260B	0.013	0.25	mg/kg	--	0.005 M	--	--
Trichloroethene	79-01-6	Soil/Solid	8260B	0.013	0.25	mg/kg	--	0.14	29	46
Trichlorofluoromethane	75-69-4	Soil/Solid	8260B	0.035	0.25	mg/kg	--	22	67	195
Vinyl chloride	75-01-4	Soil/Solid	8260B	0.031	0.25	mg/kg	--	0.001	0.8	2.2
VOCs - Water/Liquid										
1,1,1,2-Tetrachloroethane	630-20-6	Water/Liquid	8260B	0.083	1.0	ug/L	70	--	--	--
1,1,1-Trichloroethane	71-55-6	Water/Liquid	8260B	0.098	1.0	ug/L	9000 (4)	--	--	--
1,1,2,2-Tetrachloroethane	79-34-5	Water/Liquid	8260B	0.084	1.0	ug/L	2	--	--	--
1,1,2-Trichloroethane	79-00-5	Water/Liquid	8260B	0.15	1.0	ug/L	3	--	--	--
1,1,2-Trichlorotrifluoroethane	76-13-1	Water/Liquid	8260B	0.10	1.0	ug/L	200000	--	--	--
1,1-Dichloroethane	75-34-3	Water/Liquid	8260B	0.094	1.0	ug/L	100 (7)	--	--	--
1,1-Dichloroethene	75-35-4	Water/Liquid	8260B	0.10	1.0	ug/L	200	--	--	--
1,1-Dichloropropene	563-58-6	Water/Liquid	8260B	0.099	1.0	ug/L	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	Water/Liquid	8260B	0.40	5.0	ug/L	--	--	--	--
1,2,3-Trichloropropane	96-18-4	Water/Liquid	8260B	0.13	2.5	ug/L	40	--	--	--
1,2,4-Trichlorobenzene	120-82-1	Water/Liquid	8260B	0.52	5.0	ug/L	--	--	--	--
1,2,4-Trimethylbenzene	95-63-6	Water/Liquid	8260B	0.052	1.0	ug/L	--	--	--	--
1,2-Dibromo-3-chloropropane	96-12-8	Water/Liquid	8260B	1.2	5.0	ug/L	--	--	--	--
1,2-Dibromoethane (EDB)	106-93-4	Water/Liquid	8260B	0.10	2.5	ug/L	0.004	--	--	--
1,2-Dichlorobenzene	95-50-1	Water/Liquid	8260B	0.12	1.0	ug/L	600	--	--	--
1,2-Dichloroethane	107-06-2	Water/Liquid	8260B	0.084	1.0	ug/L	4	--	--	--
1,2-Dichloropropane	78-87-5	Water/Liquid	8260B	0.13	1.0	ug/L	5	--	--	--
1,3,5-Trimethylbenzene	108-67-8	Water/Liquid	8260B	0.066	1.0	ug/L	100 (4) (6)	--	--	--
1,3-Dichlorobenzene	541-73-1	Water/Liquid	8260B	0.094	1.0	ug/L	--	--	--	--
1,3-Dichloropropane	142-28-9	Water/Liquid	8260B	0.074	1.0	ug/L	--	--	--	--
1,4-Dichlorobenzene	106-46-7	Water/Liquid	8260B	0.053	1.0	ug/L	10	--	--	--
2,2-Dichloropropane	594-20-7	Water/Liquid	8260B	0.23	5.0	ug/L	--	--	--	--
2-Butanone	78-93-3	Water/Liquid	8260B	0.58	20	ug/L	4000	--	--	--
2-Chlorotoluene	95-49-8	Water/Liquid	8260B	0.077	1.0	ug/L	--	--	--	--
4-Chlorotoluene	106-43-4	Water/Liquid	8260B	0.059	1.0	ug/L	--	--	--	--
Acetone	67-64-1	Water/Liquid	8260B	0.69	20	ug/L	700	--	--	--
Allyl chloride	107-05-1	Water/Liquid	8260B	0.28	5.0	ug/L	30	--	--	--
Benzene	71-43-2	Water/Liquid	8260B	0.047	1.0	ug/L	2 (4)	--	--	--
Bromobenzene	108-86-1	Water/Liquid	8260B	0.084	1.0	ug/L	--	--	--	--
Bromochloromethane	74-97-5	Water/Liquid	8260B	0.075	1.0	ug/L	--	--	--	--
Bromodichloromethane	75-27-4	Water/Liquid	8260B	0.13	1.0	ug/L	6	--	--	--
Bromoform	75-25-2	Water/Liquid	8260B	0.074	5.0	ug/L	40	--	--	--
Bromomethane	74-83-9	Water/Liquid	8260B	0.26	5.0	ug/L	10	--	--	--
Carbon tetrachloride	56-23-5	Water/Liquid	8260B	0.074	1.0	ug/L	3	--	--	--
Chlorobenzene	108-90-7	Water/Liquid	8260B	0.025	1.0	ug/L	100	--	--	--
Chloroethane	75-00-3	Water/Liquid	8260B	0.26	2.5	ug/L	--	--	--	--
Chloroform	67-66-3	Water/Liquid	8260B	0.098	1.0	ug/L	30 (4) (6)	--	--	--
Chloromethane	74-87-3	Water/Liquid	8260B	0.098	2.5	ug/L	--	--	--	--
cis-1,2-Dichloroethene	156-59-2	Water/Liquid	8260B	0.12	1.0	ug/L	50 (4)	--	--	--
cis-1,3-Dichloropropene	10061-01-5	Water/Liquid	8260B	0.11	1.0	ug/L	--	--	--	--
Dibromochloromethane	124-48-1	Water/Liquid	8260B	0.084	2.5	ug/L	10	--	--	--
Dibromomethane	74-95-3	Water/Liquid	8260B	0.14	2.5	ug/L	--	--	--	--
Dichlorodifluoromethane	75-71-8	Water/Liquid	8260B	0.39	5.0	ug/L	700 (4)	--	--	--
Dichlorofluoromethane	75-43-4	Water/Liquid	8260B	0.070	1.0	ug/L	--	--	--	--
Ethyl ether	60-29-7	Water/Liquid	8260B	0.10	5.0	ug/L	1000	--	--	--
Ethylbenzene	100-41-4	Water/Liquid	8260B	0.055	1.0	ug/L	700	--	--	--
Hexachlorobutadiene	87-68-3	Water/Liquid	8260B	0.58	10	ug/L	1	--	--	--
Isopropylbenzene	98-82-8	Water/Liquid	8260B	0.068	1.0	ug/L	300	--	--	--
m,p-Xylene	108-38-3 106-42-3	Water/Liquid	8260B	0.14	2.0	ug/L	10000 M	--	--	--
Methyl isobutyl ketone	108-10-1	Water/Liquid	8260B	0.13	5.0	ug/L	300	--	--	--
Methyl tert-butyl ether	1634-04-4	Water/Liquid	8260B	0.079	1.0	ug/L	--	--	--	--

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Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [a]	Minnesota Tier SLV [a]	Minnesota SRV [a]	Minnesota Tier II Industrial SRV [a]
Methylene chloride	75-09-2	Water/Liquid	8260B	0.29	5.0	ug/L	5 (3)	--	--	--
Naphthalene	91-20-3	Water/Liquid	8260B	0.38	5.0	ug/L	300	--	--	--
n-Butylbenzene	104-51-8	Water/Liquid	8260B	0.094	2.5	ug/L	--	--	--	--
n-Propylbenzene	103-65-1	Water/Liquid	8260B	0.079	1.0	ug/L	--	--	--	--
o-Xylene	95-47-6	Water/Liquid	8260B	0.074	1.0	ug/L	10000 M	--	--	--
p-Isopropyltoluene	99-87-6	Water/Liquid	8260B	0.087	2.5	ug/L	--	--	--	--
sec-Butylbenzene	135-98-8	Water/Liquid	8260B	0.030	1.0	ug/L	--	--	--	--
Styrene	100-42-5	Water/Liquid	8260B	0.072	1.0	ug/L	--	--	--	--
tert-Butylbenzene	98-06-6	Water/Liquid	8260B	0.046	1.0	ug/L	--	--	--	--
Tetrachloroethene	127-18-4	Water/Liquid	8260B	0.10	1.0	ug/L	5 (3)	--	--	--
Tetrahydrofuran	109-99-9	Water/Liquid	8260B	0.76	20	ug/L	--	--	--	--
Toluene	108-88-3	Water/Liquid	8260B	0.036	1.0	ug/L	1000	--	--	--
trans-1,2-Dichloroethene	156-60-5	Water/Liquid	8260B	0.14	1.0	ug/L	100	--	--	--
trans-1,3-Dichloropropene	10061-02-6	Water/Liquid	8260B	0.082	1.0	ug/L	--	--	--	--
Trichloroethene	79-01-6	Water/Liquid	8260B	0.097	1.0	ug/L	5 (3)	--	--	--
Trichlorofluoromethane	75-69-4	Water/Liquid	8260B	0.17	1.0	ug/L	2000	--	--	--
Vinyl chloride	75-01-4	Water/Liquid	8260B	0.10	1.0	ug/L	0.2 (4)	--	--	--
SemiVolatile Organics										
1,2,4-Trichlorobenzene	120-82-1	Soil/Solid	8270C	0.020	0.33	mg/kg	--	0.31	200	985
1,2-Dichlorobenzene	95-50-1	Soil/Solid	8270C	0.012	0.33	mg/kg	--	8.1	26	75
1,2-Diphenylhydrazine as Azobenzene	103-33-3	Soil/Solid	8270C	0.039	0.33	mg/kg	--	--	--	--
1,3-Dichlorobenzene	541-73-1	Soil/Solid	8270C	0.014	0.33	mg/kg	--	4.2	26	200
1,4-Dichlorobenzene	106-46-7	Soil/Solid	8270C	0.013	0.33	mg/kg	--	0.13	30	50
2,3,4,6-Tetrachlorophenol	58-90-2	Soil/Solid	8270C	0.072	0.67	mg/kg	--	--	636	3700
2,4,5-Trichlorophenol	95-95-4	Soil/Solid	8270C	0.039	0.67	mg/kg	--	--	1920	10600
2,4,6-Trichlorophenol	88-06-2	Soil/Solid	8270C	0.081	0.67	mg/kg	--	0.21	595	1060
2,4-Dichlorophenol	120-83-2	Soil/Solid	8270C	0.046	0.67	mg/kg	--	0.076	46	230
2,4-Dimethylphenol	105-67-9	Soil/Solid	8270C	0.079	0.67	mg/kg	--	0.34	390	1925
2,4-Dinitrophenol	51-28-5	Soil/Solid	8270C	0.064	0.67	mg/kg	--	0.014	--	--
2,4-Dinitrotoluene	121-14-2	Soil/Solid	8270C	0.044	0.33	mg/kg	--	0.001	50	355
2,6-Dichlorophenol	87-65-0	Soil/Solid	8270C	0.042	0.67	mg/kg	--	--	--	--
2,6-Dinitrotoluene	606-20-2	Soil/Solid	8270C	0.040	0.33	mg/kg	--	0.001	25	175
2-Chloronaphthalene	91-58-7	Soil/Solid	8270C	0.018	0.33	mg/kg	--	--	--	--
2-Chlorophenol	95-57-8	Soil/Solid	8270C	0.029	0.67	mg/kg	--	0.26	--	--
2-Methylnaphthalene	91-57-6	Soil/Solid	8270C	0.021	0.33	mg/kg	--	--	100	369
2-Methylphenol	95-48-7	Soil/Solid	8270C	0.019	0.67	mg/kg	--	0.064	75	352
2-Nitroaniline	88-74-4	Soil/Solid	8270C	0.041	0.33	mg/kg	--	--	--	--
2-Nitrophenol	88-75-5	Soil/Solid	8270C	0.040	0.67	mg/kg	--	0.60	--	--
3,3'-Dichlorobenzidine	91-94-1	Soil/Solid	8270C	0.21	1.6	mg/kg	--	0.36	25	50
3-Nitroaniline	99-09-2	Soil/Solid	8270C	0.041	0.33	mg/kg	--	--	--	--
4,6-Dinitro-2-methylphenol	534-52-1	Soil/Solid	8270C	0.097	0.67	mg/kg	--	--	--	--
4-Bromophenyl phenyl ether	101-55-3	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	--	--
4-Chloro-3-methylphenol	59-50-7	Soil/Solid	8270C	0.075	0.67	mg/kg	--	--	--	--
4-Chloroaniline	106-47-8	Soil/Solid	8270C	0.022	0.67	mg/kg	--	--	--	--
4-Chlorophenyl phenyl ether	7005-72-3	Soil/Solid	8270C	0.024	0.33	mg/kg	--	--	--	--
4-Methylphenol	106-44-5	Soil/Solid	8270C	0.017	0.67	mg/kg	--	0.033	10	59
4-Nitroaniline	100-01-6	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	--	--
4-Nitrophenol	100-02-7	Soil/Solid	8270C	0.081	0.67	mg/kg	--	--	--	--
Acenaphthene	83-32-9	Soil/Solid	8270C	0.020	0.33	mg/kg	--	50	1200	5260
Acenaphthylene	208-96-8	Soil/Solid	8270C	0.031	0.33	mg/kg	--	--	--	--
Aniline	62-53-3	Soil/Solid	8270C	0.034	0.67	mg/kg	--	--	--	--
Anthracene	120-12-7	Soil/Solid	8270C	0.043	0.33	mg/kg	--	942	7880	45400
Benzidine	92-87-5	Soil/Solid	8270C	0.71	2.5	mg/kg	--	--	--	--
Benzo (a) anthracene	56-55-3	Soil/Solid	8270C	0.045	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (a) pyrene	50-32-8	Soil/Solid	8270C	0.049	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (b) fluoranthene	205-99-2	Soil/Solid	8270C	0.048	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (g,h,i) perylene	191-24-2	Soil/Solid	8270C	0.050	0.33	mg/kg	--	--	--	--
Benzo (k) fluoranthene	207-08-9	Soil/Solid	8270C	0.053	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzoic acid	65-85-0	Soil/Solid	8270C	0.036	0.33	mg/kg	--	30	50000	100000
Benzyl alcohol	100-51-6	Soil/Solid	8270C	0.11	0.67	mg/kg	--	--	8700	56000
Bis(2-chloroethoxy)methane	111-91-1	Soil/Solid	8270C	0.021	0.33	mg/kg	--	--	--	--
Bis(2-chloroethyl)ether	111-44-4	Soil/Solid	8270C	0.013	0.33	mg/kg	--	0.001	2.5	5
Bis(2-chloroisopropyl)ether	39638-32-9	Soil/Solid	8270C	0.017	0.33	mg/kg	--	--	--	--
Bis(2-ethylhexyl)phthalate	117-81-7	Soil/Solid	8270C	0.046	0.33	mg/kg	--	40	570	2100
Butyl benzyl phthalate	85-68-7	Soil/Solid	8270C	0.047	0.33	mg/kg	--	28	580	3700
Carbazole	86-74-8	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	700	1310
Chrysene	218-01-9	Soil/Solid	8270C	0.049	0.33	mg/kg	--	10.2 T	2 T	3 T
Dibenz (a,h) anthracene	53-70-3	Soil/Solid	8270C	0.053	0.33	mg/kg	--	10.2 T	2 T	3 T
Dibenzofuran	132-64-9	Soil/Solid	8270C	0.022	0.33	mg/kg	--	--	104	810

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits	Minnesota Tier SLV *	Minnesota SRV *	Minnesota Tier II Industrial SRV *
Diethyl phthalate	84-66-2	Soil/Solid	8270C	0.045	0.33	mg/kg	--	18	--	--
Dimethyl phthalate	131-11-3	Soil/Solid	8270C	0.043	0.33	mg/kg	--	172	--	--
Di-n-butyl phthalate	84-74-2	Soil/Solid	8270C	0.054	0.33	mg/kg	--	23	2440	16300
Di-n-octyl phthalate	117-84-0	Soil/Solid	8270C	0.056	0.33	mg/kg	--	--	520	3700
Fluoranthene	206-44-0	Soil/Solid	8270C	0.047	0.33	mg/kg	--	295	1080	6800
Fluorene	86-73-7	Soil/Solid	8270C	0.011	0.33	mg/kg	--	47	850	4120
Hexachlorobenzene	118-74-1	Soil/Solid	8270C	0.041	0.33	mg/kg	--	0.32	5	9
Hexachlorobutadiene	87-68-3	Soil/Solid	8270C	0.035	0.33	mg/kg	--	25	6	37
Hexachlorocyclopentadiene	77-47-4	Soil/Solid	8270C	0.030	0.33	mg/kg	--	4.4	2	6
Hexachloroethane	67-72-1	Soil/Solid	8270C	0.018	0.33	mg/kg	--	0.050	--	--
Indeno (1,2,3-cd) pyrene	193-39-5	Soil/Solid	8270C	0.042	0.33	mg/kg	--	10.2 T	2 T	3 T
Isophorone	78-59-1	Soil/Solid	8270C	0.018	0.33	mg/kg	--	0.16	--	--
Naphthalene	91-20-3	Soil/Solid	8270C	0.015	0.33	mg/kg	--	7.5	10	28
Nitrobenzene	98-95-3	Soil/Solid	8270C	0.014	0.33	mg/kg	--	--	--	--
N-Nitrosodimethylamine	62-75-9	Soil/Solid	8270C	0.028	0.33	mg/kg	--	0.82	--	--
N-Nitrosodi-n-propylamine	621-64-7	Soil/Solid	8270C	0.014	0.33	mg/kg	--	--	0.7	1.2
N-Nitrosodiphenylamine ***	86-30-6	Soil/Solid	8270C	0.045	0.33	mg/kg	--	0.88	1950	3720
Diphenylamine ***	122-39-4	Soil/Solid	8270C	--	--	--	--	--	--	--
Pentachlorophenol	87-86-5	Soil/Solid	8270C	0.081	0.67	mg/kg	--	0.034	80	120
Phenanthrene	85-01-8	Soil/Solid	8270C	0.026	0.33	mg/kg	--	--	--	--
Phenol	108-95-2	Soil/Solid	8270C	0.027	0.67	mg/kg	--	7.8	1500	20203
Pyrene	129-00-0	Soil/Solid	8270C	0.046	0.33	mg/kg	--	272	890	5800
2,4-Dinitrotoluene (DNT)	121-14-2	Soil/Solid	8270C	0.063	3.0	mg/kg	--	0.001	50	355
2,6-Dinitrotoluene (DNT)	606-20-2	Soil/Solid	8270C	0.13	3.0	mg/kg	--	0.001	25	175
SemiVolatile Organics										
1,2,4-Trichlorobenzene	120-82-1	Water/Liquid	8270C	0.28	10	ug/L	--	--	--	--
1,2-Dichlorobenzene	95-50-1	Water/Liquid	8270C	0.21	10	ug/L	600	--	--	--
1,2-Diphenylhydrazine as Azobenzene	103-33-3	Water/Liquid	8270C	0.20	10	ug/L	--	--	--	--
1,3-Dichlorobenzene	541-73-1	Water/Liquid	8270C	0.21	10	ug/L	--	--	--	--
1,4-Dichlorobenzene	106-46-7	Water/Liquid	8270C	0.18	10	ug/L	10	--	--	--
2,3,4,6-Tetrachlorophenol	58-90-2	Water/Liquid	8270C	1.0	10	ug/L	--	--	--	--
2,4,5-Trichlorophenol	95-95-4	Water/Liquid	8270C	0.85	10	ug/L	--	--	--	--
2,4,6-Trichlorophenol	88-06-2	Water/Liquid	8270C	0.89	10	ug/L	30	--	--	--
2,4-Dichlorophenol	120-83-2	Water/Liquid	8270C	0.78	10	ug/L	20	--	--	--
2,4-Dimethylphenol	105-67-9	Water/Liquid	8270C	0.78	10	ug/L	100	--	--	--
2,4-Dinitrophenol	51-28-5	Water/Liquid	8270C	0.50	10	ug/L	10	--	--	--
2,4-Dinitrotoluene	121-14-2	Water/Liquid	8270C	0.49	10	ug/L	0.5 (2)	--	--	--
2,6-Dichlorophenol	87-65-0	Water/Liquid	8270C	0.78	10	ug/L	--	--	--	--
2,6-Dinitrotoluene	606-20-2	Water/Liquid	8270C	0.39	10	ug/L	0.5 (2)	--	--	--
2-Chloronaphthalene	91-58-7	Water/Liquid	8270C	0.20	10	ug/L	--	--	--	--
2-Chlorophenol	95-57-8	Water/Liquid	8270C	0.66	10	ug/L	30	--	--	--
2-Methylnaphthalene	91-57-6	Water/Liquid	8270C	0.32	10	ug/L	--	--	--	--
2-Methylphenol	95-48-7	Water/Liquid	8270C	0.77	10	ug/L	30	--	--	--
2-Nitroaniline	88-74-4	Water/Liquid	8270C	0.92	10	ug/L	--	--	--	--
2-Nitrophenol	88-75-5	Water/Liquid	8270C	1.0	10	ug/L	--	--	--	--
3,3'-Dichlorobenzidine	91-94-1	Water/Liquid	8270C	7.1	25	ug/L	0.8	--	--	--
3-Nitroaniline	99-09-2	Water/Liquid	8270C	0.95	10	ug/L	--	--	--	--
4,6-Dinitro-2-methylphenol	534-52-1	Water/Liquid	8270C	0.90	10	ug/L	--	--	--	--
4-Bromophenyl phenyl ether	101-55-3	Water/Liquid	8270C	0.19	10	ug/L	--	--	--	--
4-Chloro-3-methylphenol	59-50-7	Water/Liquid	8270C	0.79	10	ug/L	--	--	--	--
4-Chloroaniline	106-47-8	Water/Liquid	8270C	1.0	10	ug/L	--	--	--	--
4-Chlorophenol	106-48-9	Water/Liquid	8270C	NA	NA	ug/L	--	--	--	--
4-Chlorophenyl phenyl ether	7005-72-3	Water/Liquid	8270C	0.15	10	ug/L	--	--	--	--
4-Methylphenol	106-44-5	Water/Liquid	8270C	0.82	10	ug/L	3	--	--	--
4-Nitroaniline	100-01-6	Water/Liquid	8270C	0.63	10	ug/L	--	--	--	--
4-Nitrophenol	100-02-7	Water/Liquid	8270C	1.2	10	ug/L	--	--	--	--
Acenaphthene	83-32-9	Water/Liquid	8270C	0.15	10	ug/L	400	--	--	--
Acenaphthylene	208-96-8	Water/Liquid	8270C	0.17	10	ug/L	--	--	--	--
Aniline	62-53-3	Water/Liquid	8270C	0.97	10	ug/L	--	--	--	--
Anthracene	120-12-7	Water/Liquid	8270C	0.19	10	ug/L	2000	--	--	--
Benzidine	92-87-5	Water/Liquid	8270C	23	100	ug/L	--	--	--	--
Benzo (a) anthracene	56-55-3	Water/Liquid	8270C	0.18	10	ug/L	--	--	--	--
Benzo (a) pyrene	50-32-8	Water/Liquid	8270C	0.22	10	ug/L	--	--	--	--
Benzo (b) fluoranthene	205-99-2	Water/Liquid	8270C	0.18	10	ug/L	--	--	--	--
Benzo (g,h,i) perylene	191-24-2	Water/Liquid	8270C	0.24	10	ug/L	--	--	--	--
Benzo (k) fluoranthene	207-08-9	Water/Liquid	8270C	0.21	10	ug/L	--	--	--	--
Benzoic acid	65-85-0	Water/Liquid	8270C	0.75	10	ug/L	30000	--	--	--
Benzyl alcohol	100-51-6	Water/Liquid	8270C	0.66	10	ug/L	--	--	--	--
Bis(2-chloroethoxy)methane	111-91-1	Water/Liquid	8270C	0.21	10	ug/L	--	--	--	--

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [3]	Minnesota Tier SLV [4]	Minnesota SRV [5]	Minnesota Tier II Industrial SRV [6]
Bis(2-chloroethyl)ether	111-44-4	Water/Liquid	8270C	0.21	10	ug/L	0.3	--	--	--
Bis(2-chloroisopropyl)ether	39638-32-9	Water/Liquid	8270C	0.14	10	ug/L	--	--	--	--
Bis(2-ethylhexyl)phthalate	117-81-7	Water/Liquid	8270C	0.45	10	ug/L	20 (1)	--	--	--
Butyl benzyl phthalate	85-68-7	Water/Liquid	8270C	0.33	10	ug/L	100	--	--	--
Carbazole	86-74-8	Water/Liquid	8270C	0.24	10	ug/L	--	--	--	--
Chrysene	218-01-9	Water/Liquid	8270C	0.15	10	ug/L	--	--	--	--
Dibenz (a,h) anthracene	53-70-3	Water/Liquid	8270C	0.25	10	ug/L	--	--	--	--
Dibenzofuran	132-64-9	Water/Liquid	8270C	0.27	10	ug/L	--	--	--	--
Diethyl phthalate	84-66-2	Water/Liquid	8270C	0.32	10	ug/L	6000	--	--	--
Dimethyl phthalate	131-11-3	Water/Liquid	8270C	0.26	10	ug/L	70000	--	--	--
Di-n-butyl phthalate	84-74-2	Water/Liquid	8270C	0.33	10	ug/L	700	--	--	--
Di-n-octyl phthalate	117-84-0	Water/Liquid	8270C	0.42	10	ug/L	--	--	--	--
Fluoranthene	206-44-0	Water/Liquid	8270C	0.23	10	ug/L	300	--	--	--
Fluorene	86-73-7	Water/Liquid	8270C	0.16	10	ug/L	300	--	--	--
Hexachlorobenzene	118-74-1	Water/Liquid	8270C	0.15	10	ug/L	0.2	--	--	--
Hexachlorobutadiene	87-68-3	Water/Liquid	8270C	0.34	10	ug/L	1	--	--	--
Hexachlorocyclopentadiene	77-47-4	Water/Liquid	8270C	0.22	10	ug/L	--	--	--	--
Hexachloroethane	67-72-1	Water/Liquid	8270C	0.30	10	ug/L	--	--	--	--
Indeno (1,2,3-cd) pyrene	193-39-5	Water/Liquid	8270C	0.19	10	ug/L	--	--	--	--
Isophorone	78-59-1	Water/Liquid	8270C	0.23	10	ug/L	100	--	--	--
Naphthalene	91-20-3	Water/Liquid	8270C	0.19	10	ug/L	300	--	--	--
Nitrobenzene	98-95-3	Water/Liquid	8270C	0.26	10	ug/L	--	--	--	--
N-Nitrosodimethylamine	62-75-9	Water/Liquid	8270C	0.30	10	ug/L	--	--	--	--
N-Nitrosodi-n-propylamine	621-64-7	Water/Liquid	8270C	0.28	10	ug/L	--	--	--	--
N-Nitrosodiphenylamine ***	86-30-6	Water/Liquid	8270C	0.27	10	ug/L	70	--	--	--
Diphenylamine ***	122-39-4	Water/Liquid	8270C	--	--	--	--	--	--	--
Pentachlorophenol	87-86-5	Water/Liquid	8270C	0.99	10	ug/L	1 (3)	--	--	--
Phenanthrene	85-01-8	Water/Liquid	8270C	0.13	10	ug/L	--	--	--	--
Phenol	108-95-2	Water/Liquid	8270C	0.59	10	ug/L	4000	--	--	--
Pyrene	129-00-0	Water/Liquid	8270C	0.24	10	ug/L	200	--	--	--

Notes:
M - the values with this notation indicate the limit is for all combined isomers of this compound
T - the values with this notation represent the limit for the total carcinogenic PAHs as BaP
C - Mercury as mercuric chloride
(TA) - Legend Technical Services, Inc. will subcontract this analysis to Test America, West Sacramento, California.
(Braun) - Legend Technical Services, Inc. will subcontract this analysis to Braun Intertec, Minneapolis, MN.
(1) Not a HRL but a Health Based Value (HBV)
(2) (SRL)-Specific Risk Level (water concentration which corresponds to a riskof 1E-5.
(3) Not a HRL but an EPA Maximum Contaminant Level (MCL).
(4) Value is representative of the lowest exposure duration published in the 2008 Health Risk Limits.
(5) Value represents the criteria for Chromium, hexavalent.
(6) Set at short-term HRL.
(7) Not a HRL, but a Risk Assessment Advice (RAA).
(8) Value represents the criteria for Chromium, Trivalent.
[3] - Minnesota Department of Health, Health Risk Limit (HRL) unless noted otherwise.
[4] - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Soil Leaching Value (SLV)
[5] - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Soil Reference Value (SRV)
[6] - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Tier II Industrial SRV.

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September 25, 2009

Ms. Kelly Neppl
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0904029
RE: 23190B05.07

Enclosed are the results of analyses for samples received by the laboratory on 09/11/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of this report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC5-SS48_0.5-0.5	0904029-01	Soil	09/08/09 08:30	09/11/09 14:55
SOC5-SS49_0.5-0.5	0904029-02	Soil	09/08/09 08:45	09/11/09 14:55
SOC5-TT7_4-4	0904029-03	Soil	09/08/09 17:00	09/11/09 14:55
SOC5-TT9_13-13	0904029-04	Soil	09/08/09 14:00	09/11/09 14:55
SOC5-TT13_3-3	0904029-05	Soil	09/10/09 12:00	09/11/09 14:55
SOC5-TT18_4-4	0904029-06	Soil	09/09/09 10:00	09/11/09 14:55
SOC5-TT25_5-5	0904029-07	Soil	09/09/09 13:00	09/11/09 14:55
SOC4-TT9_6-6	0904029-08	Soil	09/10/09 14:30	09/11/09 14:55
SOC5-SS8_0.5-0.5	0904029-09	Soil	09/10/09 13:00	09/11/09 14:55
SOC5-SS10_0.5-0.5	0904029-10	Soil	09/10/09 15:00	09/11/09 14:55
M-2	0904029-11	Soil	09/10/09 00:00	09/11/09 14:55
SOC5-M1	0904029-12	Soil	09/10/09 00:00	09/11/09 14:55
FB-1	0904029-13	Water	09/10/09 13:30	09/11/09 14:55
FB-2	0904029-14	Water	09/10/09 17:30	09/11/09 14:55

Shipping Container Information

Default Cooler Temperature (°C): 3.2

Received on ice: Yes
Temperature blank was present
Received on ice pack: No
Received on melt water: No
Ambient: No
Acceptable (IH/ISO only): No
Custody seals: Yes

Case Narrative:

MN Certification does not apply to carbazole in the 8270C analysis.

Recovery for the 8270 surrogate 2-fluorobiphenyl in sample SOC5-TT18_4-4 was below laboratory limits. All spike compounds and surrogates were within limits in the batch B9I1804 method blank, LCS, and MS/MSD.

Beryllium recoveries in the MS/MSD samples for 6020 batch B9I2003 were below laboratory control limits. Recoveries in the LCS/LCSD samples and the corresponding RPDs were within limits. The MS/MSD source sample was not associated with this work order.

Zinc recovery in the MSD sample and the corresponding RPD for 6010 batch B9I2113 were outside laboratory control limits. Recoveries in the LCS/LCSD samples and the corresponding RPDs were within limits (except for the zinc MS/MSD). The MS/MSD source sample was SOC5-TT7_4-4.

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-TT7_4-4 (0904029-03) Soil Sampled: 09/08/09 17:00 Received: 09/11/09 14:55										
Antimony	<0.52	0.52	0.0057	mg/kg dry	1	B9I2113	09/20/09	09/25/09	EPA 6010B	
Arsenic	**1.5**	0.52	0.10	mg/kg dry	1	"	"	"	"	
Beryllium	<0.26	0.26	0.011	mg/kg dry	1	"	"	"	"	
Cadmium	<0.26	0.26	0.026	mg/kg dry	1	"	"	"	"	
Chromium	**4.4**	0.52	0.012	mg/kg dry	1	"	"	"	"	
Copper	**6.9**	1.0	0.073	mg/kg dry	1	"	"	"	"	
Lead	**1.5**	1.0	0.035	mg/kg dry	1	"	"	"	"	
Mercury	<0.10	0.10	0.0019	mg/kg dry	1	B9I2107	09/21/09	09/22/09	EPA 7471A	
Nickel	**5.8**	0.52	0.015	mg/kg dry	1	B9I2113	09/20/09	09/25/09	EPA 6010B	
Selenium	<1.0	1.0	0.11	mg/kg dry	1	"	"	"	"	
Silver	<0.26	0.26	0.0094	mg/kg dry	1	"	"	"	"	
Thallium	<2.1	2.1	0.14	mg/kg dry	1	"	"	"	"	
Zinc	**3.6**	1.0	0.23	mg/kg dry	1	"	"	"	"	M2, QR-04
SOC5-TT9_13-13 (0904029-04) Soil Sampled: 09/08/09 14:00 Received: 09/11/09 14:55										
Antimony	<0.51	0.51	0.0056	mg/kg dry	1	B9I2113	09/20/09	09/25/09	EPA 6010B	
Arsenic	**1.7**	0.51	0.10	mg/kg dry	1	"	"	"	"	
Beryllium	<0.26	0.26	0.011	mg/kg dry	1	"	"	"	"	
Cadmium	<0.26	0.26	0.026	mg/kg dry	1	"	"	"	"	
Chromium	**6.7**	0.51	0.012	mg/kg dry	1	"	"	"	"	
Copper	**7.4**	1.0	0.071	mg/kg dry	1	"	"	"	"	
Lead	**1.4**	1.0	0.035	mg/kg dry	1	"	"	"	"	
Mercury	<0.10	0.10	0.0018	mg/kg dry	1	B9I2107	09/21/09	09/22/09	EPA 7471A	
Nickel	**8.9**	0.51	0.014	mg/kg dry	1	B9I2113	09/20/09	09/25/09	EPA 6010B	
Selenium	<1.0	1.0	0.11	mg/kg dry	1	"	"	"	"	
Silver	<0.26	0.26	0.0092	mg/kg dry	1	"	"	"	"	
Thallium	<2.0	2.0	0.13	mg/kg dry	1	"	"	"	"	
Zinc	**3.2**	1.0	0.22	mg/kg dry	1	"	"	"	"	
SOC5-TT13_3-3 (0904029-05) Soil Sampled: 09/10/09 12:00 Received: 09/11/09 14:55										
Antimony	<0.52	0.52	0.0057	mg/kg dry	1	B9I2113	09/20/09	09/25/09	EPA 6010B	
Arsenic	**1.3**	0.52	0.10	mg/kg dry	1	"	"	"	"	
Beryllium	<0.26	0.26	0.011	mg/kg dry	1	"	"	"	"	
Cadmium	<0.26	0.26	0.026	mg/kg dry	1	"	"	"	"	
Chromium	**4.9**	0.52	0.012	mg/kg dry	1	"	"	"	"	
Copper	**5.0**	1.0	0.072	mg/kg dry	1	"	"	"	"	
Lead	**1.6**	1.0	0.035	mg/kg dry	1	"	"	"	"	
Mercury	<0.10	0.10	0.0019	mg/kg dry	1	B9I2107	09/21/09	09/22/09	EPA 7471A	
Nickel	**5.0**	0.52	0.014	mg/kg dry	1	B9I2113	09/20/09	09/25/09	EPA 6010B	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-TT13_3-3 (0904029-05) Soil Sampled: 09/10/09 12:00 Received: 09/11/09 14:55										
Selenium	<1.0	1.0	0.11	mg/kg dry	1	B9I2113	09/20/09	09/25/09	EPA 6010B	
Silver	<0.26	0.26	0.0093	mg/kg dry	1	"	"	"	"	
Thallium	<2.1	2.1	0.13	mg/kg dry	1	"	"	"	"	
Zinc	**3.8**	1.0	0.23	mg/kg dry	1	"	"	"	"	
SOC5-TT18_4-4 (0904029-06) Soil Sampled: 09/09/09 10:00 Received: 09/11/09 14:55										
Antimony	<0.57	0.57	0.0063	mg/kg dry	1	B9I2113	09/20/09	09/25/09	EPA 6010B	
Arsenic	**3.2**	0.57	0.11	mg/kg dry	1	"	"	"	"	
Beryllium	<0.29	0.29	0.013	mg/kg dry	1	"	"	"	"	
Cadmium	<0.29	0.29	0.029	mg/kg dry	1	"	"	"	"	
Chromium	**12**	0.57	0.014	mg/kg dry	1	"	"	"	"	
Copper	**10**	1.1	0.080	mg/kg dry	1	"	"	"	"	
Lead	**5.3**	1.1	0.039	mg/kg dry	1	"	"	"	"	
Mercury	<0.11	0.11	0.0021	mg/kg dry	1	B9I2107	09/21/09	09/22/09	EPA 7471A	
Nickel	**14**	0.57	0.016	mg/kg dry	1	B9I2113	09/20/09	09/25/09	EPA 6010B	
Selenium	<1.1	1.1	0.13	mg/kg dry	1	"	"	"	"	
Silver	<0.29	0.29	0.010	mg/kg dry	1	"	"	"	"	
Thallium	<2.3	2.3	0.15	mg/kg dry	1	"	"	"	"	
Zinc	**25**	1.1	0.25	mg/kg dry	1	"	"	"	"	
SOC5-TT25_5-5 (0904029-07) Soil Sampled: 09/09/09 13:00 Received: 09/11/09 14:55										
Antimony	<0.53	0.53	0.0059	mg/kg dry	1	B9I2113	09/20/09	09/25/09	EPA 6010B	
Arsenic	**3.9**	0.53	0.11	mg/kg dry	1	"	"	"	"	
Beryllium	<0.27	0.27	0.012	mg/kg dry	1	"	"	"	"	
Cadmium	<0.27	0.27	0.027	mg/kg dry	1	"	"	"	"	
Chromium	**8.9**	0.53	0.013	mg/kg dry	1	"	"	"	"	
Copper	**7.7**	1.1	0.074	mg/kg dry	1	"	"	"	"	
Lead	**4.6**	1.1	0.036	mg/kg dry	1	"	"	"	"	
Mercury	<0.11	0.11	0.0019	mg/kg dry	1	B9I2107	09/21/09	09/22/09	EPA 7471A	
Nickel	**12**	0.53	0.015	mg/kg dry	1	B9I2113	09/20/09	09/25/09	EPA 6010B	
Selenium	<1.1	1.1	0.12	mg/kg dry	1	"	"	"	"	
Silver	<0.27	0.27	0.0096	mg/kg dry	1	"	"	"	"	
Thallium	<2.1	2.1	0.14	mg/kg dry	1	"	"	"	"	
Zinc	**18**	1.1	0.23	mg/kg dry	1	"	"	"	"	
SOC4-TT9_6-6 (0904029-08) Soil Sampled: 09/10/09 14:30 Received: 09/11/09 14:55										
Antimony	<0.51	0.51	0.0056	mg/kg dry	1	B9I2113	09/20/09	09/25/09	EPA 6010B	
Arsenic	**1.4**	0.51	0.10	mg/kg dry	1	"	"	"	"	
Beryllium	<0.25	0.25	0.011	mg/kg dry	1	"	"	"	"	
Cadmium	<0.25	0.25	0.025	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-TT9_6-6 (0904029-08) Soil Sampled: 09/10/09 14:30 Received: 09/11/09 14:55										
Chromium	**5.3**	0.51	0.012	mg/kg dry	1	B9I2113	09/20/09	09/25/09	EPA 6010B	
Copper	**5.2**	1.0	0.071	mg/kg dry	1	"	"	"	"	
Lead	**1.4**	1.0	0.034	mg/kg dry	1	"	"	"	"	
Mercury	<0.10	0.10	0.0018	mg/kg dry	1	B9I2107	09/21/09	09/22/09	EPA 7471A	
Nickel	**8.4**	0.51	0.014	mg/kg dry	1	B9I2113	09/20/09	09/25/09	EPA 6010B	
Selenium	<1.0	1.0	0.11	mg/kg dry	1	"	"	"	"	
Silver	<0.25	0.25	0.0091	mg/kg dry	1	"	"	"	"	
Thallium	<2.0	2.0	0.13	mg/kg dry	1	"	"	"	"	
Zinc	**3.8**	1.0	0.22	mg/kg dry	1	"	"	"	"	
SOC5-SS8_0.5-0.5 (0904029-09) Soil Sampled: 09/10/09 13:00 Received: 09/11/09 14:55										
Antimony	<0.60	0.60	0.0066	mg/kg dry	1	B9I2113	09/20/09	09/25/09	EPA 6010B	
Arsenic	**6.5**	0.60	0.12	mg/kg dry	1	"	"	"	"	
Beryllium	<0.30	0.30	0.013	mg/kg dry	1	"	"	"	"	
Cadmium	<0.30	0.30	0.030	mg/kg dry	1	"	"	"	"	
Chromium	**14**	0.60	0.014	mg/kg dry	1	"	"	"	"	
Copper	**14**	1.2	0.084	mg/kg dry	1	"	"	"	"	
Lead	**11**	1.2	0.041	mg/kg dry	1	"	"	"	"	
Mercury	<0.12	0.12	0.0022	mg/kg dry	1	B9I2107	09/21/09	09/22/09	EPA 7471A	
Nickel	**17**	0.60	0.017	mg/kg dry	1	B9I2113	09/20/09	09/25/09	EPA 6010B	
Selenium	<1.2	1.2	0.13	mg/kg dry	1	"	"	"	"	
Silver	<0.30	0.30	0.011	mg/kg dry	1	"	"	"	"	
Thallium	<2.4	2.4	0.16	mg/kg dry	1	"	"	"	"	
Zinc	**37**	1.2	0.27	mg/kg dry	1	"	"	"	"	
SOC5-SS10_0.5-0.5 (0904029-10) Soil Sampled: 09/10/09 15:00 Received: 09/11/09 14:55										
Antimony	<0.57	0.57	0.0063	mg/kg dry	1	B9I2113	09/20/09	09/25/09	EPA 6010B	
Arsenic	**5.8**	0.57	0.11	mg/kg dry	1	"	"	"	"	
Beryllium	<0.29	0.29	0.013	mg/kg dry	1	"	"	"	"	
Cadmium	<0.29	0.29	0.029	mg/kg dry	1	"	"	"	"	
Chromium	**10**	0.57	0.014	mg/kg dry	1	"	"	"	"	
Copper	**8.9**	1.1	0.080	mg/kg dry	1	"	"	"	"	
Lead	**10**	1.1	0.039	mg/kg dry	1	"	"	"	"	
Mercury	<0.11	0.11	0.0021	mg/kg dry	1	B9I2107	09/21/09	09/22/09	EPA 7471A	
Nickel	**12**	0.57	0.016	mg/kg dry	1	B9I2113	09/20/09	09/25/09	EPA 6010B	
Selenium	<1.1	1.1	0.13	mg/kg dry	1	"	"	"	"	
Silver	<0.29	0.29	0.010	mg/kg dry	1	"	"	"	"	
Thallium	<2.3	2.3	0.15	mg/kg dry	1	"	"	"	"	
Zinc	**30**	1.1	0.25	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
M-2 (0904029-11) Soil Sampled: 09/10/09 00:00 Received: 09/11/09 14:55										
Antimony	<0.51	0.51	0.0056	mg/kg dry	1	B9I2113	09/20/09	09/25/09	EPA 6010B	
Arsenic	**1.4**	0.51	0.10	mg/kg dry	1	"	"	"	"	
Beryllium	<0.25	0.25	0.011	mg/kg dry	1	"	"	"	"	
Cadmium	<0.25	0.25	0.025	mg/kg dry	1	"	"	"	"	
Chromium	**9.1**	0.51	0.012	mg/kg dry	1	"	"	"	"	
Copper	**5.6**	1.0	0.071	mg/kg dry	1	"	"	"	"	
Lead	**1.6**	1.0	0.034	mg/kg dry	1	"	"	"	"	
Mercury	<0.10	0.10	0.0018	mg/kg dry	1	B9I2107	09/21/09	09/22/09	EPA 7471A	
Nickel	**7.7**	0.51	0.014	mg/kg dry	1	B9I2113	09/20/09	09/25/09	EPA 6010B	
Selenium	<1.0	1.0	0.11	mg/kg dry	1	"	"	"	"	
Silver	<0.25	0.25	0.0091	mg/kg dry	1	"	"	"	"	
Thallium	<2.0	2.0	0.13	mg/kg dry	1	"	"	"	"	
Zinc	**7.0**	1.0	0.22	mg/kg dry	1	"	"	"	"	
SOC5-M1 (0904029-12) Soil Sampled: 09/10/09 00:00 Received: 09/11/09 14:55										
Antimony	<0.56	0.56	0.0062	mg/kg dry	1	B9I2113	09/20/09	09/25/09	EPA 6010B	
Arsenic	**4.9**	0.56	0.11	mg/kg dry	1	"	"	"	"	
Beryllium	<0.28	0.28	0.012	mg/kg dry	1	"	"	"	"	
Cadmium	<0.28	0.28	0.028	mg/kg dry	1	"	"	"	"	
Chromium	**10**	0.56	0.013	mg/kg dry	1	"	"	"	"	
Copper	**8.3**	1.1	0.079	mg/kg dry	1	"	"	"	"	
Lead	**9.5**	1.1	0.038	mg/kg dry	1	"	"	"	"	
Mercury	<0.11	0.11	0.0020	mg/kg dry	1	B9I2107	09/21/09	09/22/09	EPA 7471A	
Nickel	**12**	0.56	0.016	mg/kg dry	1	B9I2113	09/20/09	09/25/09	EPA 6010B	
Selenium	<1.1	1.1	0.12	mg/kg dry	1	"	"	"	"	
Silver	<0.28	0.28	0.010	mg/kg dry	1	"	"	"	"	
Thallium	<2.2	2.2	0.15	mg/kg dry	1	"	"	"	"	
Zinc	**29**	1.1	0.25	mg/kg dry	1	"	"	"	"	
FB-2 (0904029-14) Water Sampled: 09/10/09 17:30 Received: 09/11/09 14:55										
Antimony	**0.18**	0.50	0.046	ug/L	1	B9I2003	09/20/09	09/24/09	EPA 6020	J
Arsenic	<10	10	2.0	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B	
Beryllium	<0.027	0.50	0.027	ug/L	1	B9I2003	09/20/09	09/24/09	EPA 6020	
Cadmium	<1.0	1.0	0.099	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	
Copper	<20	20	1.4	ug/L	1	"	"	"	"	
Lead	<3.0	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B9I2109	09/21/09	09/22/09	EPA 7470A	
Nickel	<5.0	5.0	0.28	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B	
Selenium	<20	20	2.2	ug/L	1	"	"	"	"	

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4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
FB-2 (0904029-14) Water Sampled: 09/10/09 17:30 Received: 09/11/09 14:55										
Silver	<5.0	5.0	0.18	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B	
Thallium	<0.0081	0.50	0.0081	ug/L	1	B9I2003	09/20/09	09/24/09	EPA 6020	
Zinc	<20	20	4.4	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B	

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Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

PCB 8082
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS48_0.5-0.5 (0904029-01) Soil	**Sampled: 09/08/09 08:30**			**Received: 09/11/09 14:55**						
Aroclor 1016	<0.21	0.21	0.012	mg/kg dry	1	B9I1513	09/15/09	09/17/09	EPA 8082	
Aroclor 1221	<0.21	0.21	0.021	mg/kg dry	1	"	"	"	"	
Aroclor 1232	<0.21	0.21	0.015	mg/kg dry	1	"	"	"	"	
Aroclor 1242	<0.21	0.21	0.020	mg/kg dry	1	"	"	"	"	
Aroclor 1248	<0.21	0.21	0.011	mg/kg dry	1	"	"	"	"	
Aroclor 1254	<0.21	0.21	0.015	mg/kg dry	1	"	"	"	"	
Aroclor 1260	<0.21	0.21	0.011	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	*89.0*			*65.3-143 %*		"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	*92.5*			*60.9-138 %*		"	"	"	"	
SOC5-SS49_0.5-0.5 (0904029-02) Soil	**Sampled: 09/08/09 08:45**			**Received: 09/11/09 14:55**						
Aroclor 1016	<0.21	0.21	0.012	mg/kg dry	1	B9I1513	09/15/09	09/17/09	EPA 8082	
Aroclor 1221	<0.21	0.21	0.021	mg/kg dry	1	"	"	"	"	
Aroclor 1232	<0.21	0.21	0.015	mg/kg dry	1	"	"	"	"	
Aroclor 1242	<0.21	0.21	0.020	mg/kg dry	1	"	"	"	"	
Aroclor 1248	<0.21	0.21	0.011	mg/kg dry	1	"	"	"	"	
Aroclor 1254	<0.21	0.21	0.015	mg/kg dry	1	"	"	"	"	
Aroclor 1260	<0.21	0.21	0.011	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	*89.5*			*65.3-143 %*		"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	*86.5*			*60.9-138 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

PERCENT SOLIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS48_0.5-0.5 (0904029-01) Soil Sampled: 09/08/09 08:30 Received: 09/11/09 14:55										
% Solids	**97**			%	1	B9I2103	09/21/09	09/22/09	% calculation	
SOC5-SS49_0.5-0.5 (0904029-02) Soil Sampled: 09/08/09 08:45 Received: 09/11/09 14:55										
% Solids	**97**			%	1	B9I2103	09/21/09	09/22/09	% calculation	
SOC5-TT7_4-4 (0904029-03) Soil Sampled: 09/08/09 17:00 Received: 09/11/09 14:55										
% Solids	**96**			%	1	B9I2103	09/21/09	09/22/09	% calculation	
SOC5-TT9_13-13 (0904029-04) Soil Sampled: 09/08/09 14:00 Received: 09/11/09 14:55										
% Solids	**98**			%	1	B9I2103	09/21/09	09/22/09	% calculation	
SOC5-TT13_3-3 (0904029-05) Soil Sampled: 09/10/09 12:00 Received: 09/11/09 14:55										
% Solids	**97**			%	1	B9I2103	09/21/09	09/22/09	% calculation	
SOC5-TT18_4-4 (0904029-06) Soil Sampled: 09/09/09 10:00 Received: 09/11/09 14:55										
% Solids	**87**			%	1	B9I2103	09/21/09	09/22/09	% calculation	
SOC5-TT25_5-5 (0904029-07) Soil Sampled: 09/09/09 13:00 Received: 09/11/09 14:55										
% Solids	**94**			%	1	B9I2103	09/21/09	09/22/09	% calculation	
SOC4-TT9_6-6 (0904029-08) Soil Sampled: 09/10/09 14:30 Received: 09/11/09 14:55										
% Solids	**99**			%	1	B9I2103	09/21/09	09/22/09	% calculation	
SOC5-SS8_0.5-0.5 (0904029-09) Soil Sampled: 09/10/09 13:00 Received: 09/11/09 14:55										
% Solids	**83**			%	1	B9I2103	09/21/09	09/22/09	% calculation	
SOC5-SS10_0.5-0.5 (0904029-10) Soil Sampled: 09/10/09 15:00 Received: 09/11/09 14:55										
% Solids	**87**			%	1	B9I2103	09/21/09	09/22/09	% calculation	
M-2 (0904029-11) Soil Sampled: 09/10/09 00:00 Received: 09/11/09 14:55										
% Solids	**99**			%	1	B9I2103	09/21/09	09/22/09	% calculation	
SOC5-M1 (0904029-12) Soil Sampled: 09/10/09 00:00 Received: 09/11/09 14:55										
% Solids	**89**			%	1	B9I2103	09/21/09	09/22/09	% calculation	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-TT7_4-4 (0904029-03) Soil Sampled: 09/08/09 17:00 Received: 09/11/09 14:55										
1,2,4-Trichlorobenzene	<0.028	0.34	0.028	mg/kg dry	1	B9I1804	09/18/09	09/18/09	EPA 8270C	
1,2-Dichlorobenzene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.040	0.70	0.040	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.025	0.70	0.025	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.036	0.70	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.036	0.70	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.094	0.70	0.094	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.060	0.70	0.060	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.045	0.70	0.045	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.040	0.70	0.040	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.036	0.70	0.036	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.038	0.70	0.038	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.41	1.7	0.41	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.077	0.70	0.077	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.042	0.70	0.042	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.11	0.70	0.11	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.028	0.70	0.028	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.10	0.70	0.10	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Aniline	<0.094	0.70	0.094	mg/kg dry	1	"	"	"	"	
Anthracene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Benzidine	<0.75	2.6	0.75	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-TT7_4-4 (0904029-03) Soil Sampled: 09/08/09 17:00 Received: 09/11/09 14:55										
Benzo (k) fluoranthene	<0.032	0.34	0.032	mg/kg dry	1	B9I1804	09/18/09	09/18/09	EPA 8270C	
Benzoic acid	<0.060	0.34	0.060	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.12	0.70	0.12	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Carbazole	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Chrysene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.016	0.34	0.016	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.039	0.34	0.039	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
Fluorene	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.017	0.34	0.017	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.043	0.34	0.043	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
Isophorone	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.030	0.34	0.030	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.10	0.70	0.10	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
Phenol	<0.059	0.70	0.059	mg/kg dry	1	"	"	"	"	
Pyrene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*68.4*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*70.4*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*70.7*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*70.2*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*72.1*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*81.8*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-TT9_13-13 (0904029-04) Soil Sampled: 09/08/09 14:00 Received: 09/11/09 14:55										
1,2,4-Trichlorobenzene	<0.028	0.34	0.028	mg/kg dry	1	B9I1804	09/18/09	09/18/09	EPA 8270C	
1,2-Dichlorobenzene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.039	0.68	0.039	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.024	0.68	0.024	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.036	0.68	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.036	0.68	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.092	0.68	0.092	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.059	0.68	0.059	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.044	0.68	0.044	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.039	0.68	0.039	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.036	0.68	0.036	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.037	0.68	0.037	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.40	1.6	0.40	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.076	0.68	0.076	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.017	0.34	0.017	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.041	0.68	0.041	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.11	0.68	0.11	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.028	0.68	0.028	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.10	0.68	0.10	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Aniline	<0.092	0.68	0.092	mg/kg dry	1	"	"	"	"	
Anthracene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Benzidine	<0.73	2.6	0.73	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-TT9_13-13 (0904029-04) Soil Sampled: 09/08/09 14:00 Received: 09/11/09 14:55										
Benzo (k) fluoranthene	<0.032	0.34	0.032	mg/kg dry	1	B9I1804	09/18/09	09/18/09	EPA 8270C	
Benzoic acid	<0.059	0.34	0.059	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.12	0.68	0.12	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
Carbazole	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Chrysene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.015	0.34	0.015	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.038	0.34	0.038	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Fluorene	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.016	0.34	0.016	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.042	0.34	0.042	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
Isophorone	<0.017	0.34	0.017	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.030	0.34	0.030	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.098	0.68	0.098	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Phenol	<0.058	0.68	0.058	mg/kg dry	1	"	"	"	"	
Pyrene	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*64.6*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*69.7*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*68.9*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*70.4*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*69.1*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*96.7*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-TT13_3-3 (0904029-05) Soil Sampled: 09/10/09 12:00 Received: 09/11/09 14:55										
1,2,4-Trichlorobenzene	<0.028	0.34	0.028	mg/kg dry	1	B9I1804	09/18/09	09/18/09	EPA 8270C	
1,2-Dichlorobenzene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.039	0.69	0.039	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.025	0.69	0.025	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.036	0.69	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.036	0.69	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.093	0.69	0.093	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.060	0.69	0.060	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.044	0.69	0.044	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.039	0.69	0.039	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.036	0.69	0.036	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.037	0.69	0.037	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.40	1.6	0.40	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.076	0.69	0.076	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.041	0.69	0.041	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.11	0.69	0.11	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.028	0.69	0.028	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.10	0.69	0.10	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Aniline	<0.093	0.69	0.093	mg/kg dry	1	"	"	"	"	
Anthracene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Benzidine	<0.74	2.6	0.74	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-TT13_3-3 (0904029-05) Soil Sampled: 09/10/09 12:00 Received: 09/11/09 14:55										
Benzo (k) fluoranthene	<0.032	0.34	0.032	mg/kg dry	1	B9I1804	09/18/09	09/18/09	EPA 8270C	
Benzoic acid	<0.060	0.34	0.060	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.12	0.69	0.12	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Carbazole	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Chrysene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.015	0.34	0.015	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.038	0.34	0.038	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
Fluorene	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.016	0.34	0.016	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.042	0.34	0.042	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
Isophorone	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.030	0.34	0.030	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.099	0.69	0.099	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
Phenol	<0.059	0.69	0.059	mg/kg dry	1	"	"	"	"	
Pyrene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*66.3*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*68.3*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*68.0*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*69.1*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*68.6*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*88.0*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-TT18_4-4 (0904029-06) Soil Sampled: 09/09/09 10:00 Received: 09/11/09 14:55										
1,2,4-Trichlorobenzene	<0.031	0.38	0.031	mg/kg dry	1	B9I1804	09/18/09	09/22/09	EPA 8270C	
1,2-Dichlorobenzene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.044	0.77	0.044	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.028	0.77	0.028	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.77	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.067	0.77	0.067	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.049	0.77	0.049	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.044	0.77	0.044	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.041	0.77	0.041	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.45	1.8	0.45	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.085	0.77	0.085	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.046	0.77	0.046	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.77	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.031	0.77	0.031	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.77	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.77	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Benzidine	<0.83	2.9	0.83	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.039	0.38	0.039	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-TT18_4-4 (0904029-06) Soil Sampled: 09/09/09 10:00 Received: 09/11/09 14:55										
Benzo (k) fluoranthene	<0.036	0.38	0.036	mg/kg dry	1	B9I1804	09/18/09	09/22/09	EPA 8270C	
Benzoic acid	<0.067	0.38	0.067	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.77	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.025	0.38	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Carbazole	<0.025	0.38	0.025	mg/kg dry	1	"	"	"	"	
Chrysene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.039	0.38	0.039	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.017	0.38	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.043	0.38	0.043	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Fluorene	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.018	0.38	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.047	0.38	0.047	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.77	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.066	0.77	0.066	mg/kg dry	1	"	"	"	"	
Pyrene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*52.5*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*51.9*			*53.2-85.1 %*		"	"	"	"	*S-BN*
Surrogate: 2-Fluorophenol	*54.0*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*50.2*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*55.1*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*64.3*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-TT25_5-5 (0904029-07) Soil Sampled: 09/09/09 13:00 Received: 09/11/09 14:55										
1,2,4-Trichlorobenzene	<0.029	0.35	0.029	mg/kg dry	1	B9I1804	09/18/09	09/18/09	EPA 8270C	
1,2-Dichlorobenzene	<0.027	0.35	0.027	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.021	0.35	0.021	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.026	0.35	0.026	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.040	0.71	0.040	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.026	0.71	0.026	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.037	0.71	0.037	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.037	0.71	0.037	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.096	0.71	0.096	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.062	0.71	0.062	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.046	0.71	0.046	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.040	0.71	0.040	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.030	0.35	0.030	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.037	0.71	0.037	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.021	0.35	0.021	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.038	0.71	0.038	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.41	1.7	0.41	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.035	0.35	0.035	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.079	0.71	0.079	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.018	0.35	0.018	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.043	0.71	0.043	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.12	0.71	0.12	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.029	0.71	0.029	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.71	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.030	0.35	0.030	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
Aniline	<0.096	0.71	0.096	mg/kg dry	1	"	"	"	"	
Anthracene	<0.027	0.35	0.027	mg/kg dry	1	"	"	"	"	
Benzidine	<0.77	2.7	0.77	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.029	0.35	0.029	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.029	0.35	0.029	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.036	0.35	0.036	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.032	0.35	0.032	mg/kg dry	1	"	"	"	"	

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LEGEND Technical Services, Inc.
www.legend-group.com

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-TT25_5-5 (0904029-07) Soil Sampled: 09/09/09 13:00 Received: 09/11/09 14:55										
Benzo (k) fluoranthene	<0.033	0.35	0.033	mg/kg dry	1	B9I1804	09/18/09	09/18/09	EPA 8270C	
Benzoic acid	<0.062	0.35	0.062	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.13	0.71	0.13	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.026	0.35	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.023	0.35	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.021	0.35	0.021	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
Carbazole	<0.023	0.35	0.023	mg/kg dry	1	"	"	"	"	
Chrysene	<0.035	0.35	0.035	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.036	0.35	0.036	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.016	0.35	0.016	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.019	0.35	0.019	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.039	0.35	0.039	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.027	0.35	0.027	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.026	0.35	0.026	mg/kg dry	1	"	"	"	"	
Fluorene	<0.019	0.35	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.017	0.35	0.017	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.035	0.35	0.035	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.044	0.35	0.044	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.030	0.35	0.030	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.034	0.35	0.034	mg/kg dry	1	"	"	"	"	
Isophorone	<0.018	0.35	0.018	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.031	0.35	0.031	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.032	0.35	0.032	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.034	0.35	0.034	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.027	0.35	0.027	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.019	0.35	0.019	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.10	0.71	0.10	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
Phenol	<0.061	0.71	0.061	mg/kg dry	1	"	"	"	"	
Pyrene	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*68.6*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*68.6*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*71.6*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*71.3*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*72.7*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*88.2*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-TT9_6-6 (0904029-08) Soil Sampled: 09/10/09 14:30 Received: 09/11/09 14:55										
1,2,4-Trichlorobenzene	<0.027	0.33	0.027	mg/kg dry	1	B9I1804	09/18/09	09/18/09	EPA 8270C	
1,2-Dichlorobenzene	<0.025	0.33	0.025	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.020	0.33	0.020	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.023	0.33	0.023	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.024	0.33	0.024	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.038	0.68	0.038	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.024	0.68	0.024	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.035	0.68	0.035	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.035	0.68	0.035	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.091	0.68	0.091	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.059	0.68	0.059	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.021	0.33	0.021	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.043	0.68	0.043	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.019	0.33	0.019	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.019	0.33	0.019	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.038	0.68	0.038	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.028	0.33	0.028	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.035	0.68	0.035	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.020	0.33	0.020	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.036	0.68	0.036	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.39	1.6	0.39	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.033	0.33	0.033	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.075	0.68	0.075	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.017	0.33	0.017	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.040	0.68	0.040	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.11	0.68	0.11	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.023	0.33	0.023	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.027	0.68	0.027	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.023	0.33	0.023	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.10	0.68	0.10	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.028	0.33	0.028	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.023	0.33	0.023	mg/kg dry	1	"	"	"	"	
Aniline	<0.091	0.68	0.091	mg/kg dry	1	"	"	"	"	
Anthracene	<0.025	0.33	0.025	mg/kg dry	1	"	"	"	"	
Benzidine	<0.73	2.5	0.73	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.027	0.33	0.027	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.027	0.33	0.027	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.034	0.33	0.034	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.030	0.33	0.030	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-TT9_6-6 (0904029-08) Soil Sampled: 09/10/09 14:30 Received: 09/11/09 14:55										
Benzo (k) fluoranthene	<0.031	0.33	0.031	mg/kg dry	1	B9I1804	09/18/09	09/18/09	EPA 8270C	
Benzoic acid	<0.059	0.33	0.059	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.12	0.68	0.12	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.021	0.33	0.021	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.024	0.33	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.022	0.33	0.022	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.020	0.33	0.020	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.021	0.33	0.021	mg/kg dry	1	"	"	"	"	
Carbazole	<0.022	0.33	0.022	mg/kg dry	1	"	"	"	"	
Chrysene	<0.033	0.33	0.033	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.034	0.33	0.034	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.019	0.33	0.019	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.015	0.33	0.015	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.018	0.33	0.018	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.037	0.33	0.037	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.025	0.33	0.025	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.024	0.33	0.024	mg/kg dry	1	"	"	"	"	
Fluorene	<0.018	0.33	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.016	0.33	0.016	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.033	0.33	0.033	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.041	0.33	0.041	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.028	0.33	0.028	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.032	0.33	0.032	mg/kg dry	1	"	"	"	"	
Isophorone	<0.017	0.33	0.017	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.029	0.33	0.029	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.030	0.33	0.030	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.032	0.33	0.032	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.025	0.33	0.025	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.018	0.33	0.018	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.097	0.68	0.097	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.019	0.33	0.019	mg/kg dry	1	"	"	"	"	
Phenol	<0.058	0.68	0.058	mg/kg dry	1	"	"	"	"	
Pyrene	<0.023	0.33	0.023	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*73.5*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*79.4*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*80.1*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*81.4*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*78.5*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*97.6*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS8_0.5-0.5 (0904029-09) Soil Sampled: 09/10/09 13:00 Received: 09/11/09 14:55										
1,2,4-Trichlorobenzene	<0.033	0.40	0.033	mg/kg dry	1	B9I1804	09/18/09	09/18/09	EPA 8270C	
1,2-Dichlorobenzene	<0.030	0.40	0.030	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.024	0.40	0.024	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.029	0.40	0.029	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.046	0.81	0.046	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.029	0.81	0.029	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.042	0.81	0.042	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.042	0.81	0.042	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.81	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.070	0.81	0.070	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.025	0.40	0.025	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.052	0.81	0.052	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.023	0.40	0.023	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.023	0.40	0.023	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.046	0.81	0.046	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.034	0.40	0.034	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.042	0.81	0.042	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.024	0.40	0.024	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.043	0.81	0.043	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.47	1.9	0.47	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.040	0.40	0.040	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.089	0.81	0.089	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.40	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.048	0.81	0.048	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.81	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.033	0.81	0.033	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.81	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.034	0.40	0.034	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
Aniline	<0.11	0.81	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	<0.030	0.40	0.030	mg/kg dry	1	"	"	"	"	
Benzidine	<0.87	3.0	0.87	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.033	0.40	0.033	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.033	0.40	0.033	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.041	0.40	0.041	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.036	0.40	0.036	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS8_0.5-0.5 (0904029-09) Soil	**Sampled: 09/10/09 13:00**			**Received: 09/11/09 14:55**						
Benzo (k) fluoranthene	<0.037	0.40	0.037	mg/kg dry	1	B9I1804	09/18/09	09/18/09	EPA 8270C	
Benzoic acid	<0.070	0.40	0.070	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.81	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.025	0.40	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.029	0.40	0.029	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.027	0.40	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.024	0.40	0.024	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.025	0.40	0.025	mg/kg dry	1	"	"	"	"	
Carbazole	<0.027	0.40	0.027	mg/kg dry	1	"	"	"	"	
Chrysene	<0.040	0.40	0.040	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.041	0.40	0.041	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.023	0.40	0.023	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.018	0.40	0.018	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.022	0.40	0.022	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.045	0.40	0.045	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.030	0.40	0.030	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.029	0.40	0.029	mg/kg dry	1	"	"	"	"	
Fluorene	<0.022	0.40	0.022	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.019	0.40	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.040	0.40	0.040	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.049	0.40	0.049	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.034	0.40	0.034	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.039	0.40	0.039	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.40	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.035	0.40	0.035	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.036	0.40	0.036	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.039	0.40	0.039	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.030	0.40	0.030	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.022	0.40	0.022	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.12	0.81	0.12	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.023	0.40	0.023	mg/kg dry	1	"	"	"	"	
Phenol	<0.069	0.81	0.069	mg/kg dry	1	"	"	"	"	
Pyrene	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*70.6*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*74.5*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*71.7*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*76.2*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*74.0*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*91.3*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS10_0.5-0.5 (0904029-10) Soil	**Sampled: 09/10/09 15:00**			**Received: 09/11/09 14:55**						
1,2,4-Trichlorobenzene	<0.031	0.38	0.031	mg/kg dry	1	B9I1804	09/18/09	09/18/09	EPA 8270C	
1,2-Dichlorobenzene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.044	0.77	0.044	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.028	0.77	0.028	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.77	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.067	0.77	0.067	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.049	0.77	0.049	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.044	0.77	0.044	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.041	0.77	0.041	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.45	1.8	0.45	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.085	0.77	0.085	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.046	0.77	0.046	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.77	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.031	0.77	0.031	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.77	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.77	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Benzidine	<0.83	2.9	0.83	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.039	0.38	0.039	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS10_0.5-0.5 (0904029-10) Soil	**Sampled: 09/10/09 15:00**			**Received: 09/11/09 14:55**						
Benzo (k) fluoranthene	<0.036	0.38	0.036	mg/kg dry	1	B9I1804	09/18/09	09/18/09	EPA 8270C	
Benzoic acid	<0.067	0.38	0.067	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.77	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.025	0.38	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Carbazole	<0.025	0.38	0.025	mg/kg dry	1	"	"	"	"	
Chrysene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.039	0.38	0.039	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.017	0.38	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.043	0.38	0.043	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Fluorene	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.018	0.38	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.047	0.38	0.047	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.77	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.066	0.77	0.066	mg/kg dry	1	"	"	"	"	
Pyrene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*69.3*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*68.7*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*69.7*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*69.2*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*70.0*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*83.3*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
M-2 (0904029-11) Soil Sampled: 09/10/09 00:00 Received: 09/11/09 14:55										
1,2,4-Trichlorobenzene	<0.027	0.33	0.027	mg/kg dry	1	B9I1804	09/18/09	09/18/09	EPA 8270C	
1,2-Dichlorobenzene	<0.025	0.33	0.025	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.020	0.33	0.020	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.023	0.33	0.023	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.024	0.33	0.024	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.038	0.68	0.038	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.024	0.68	0.024	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.035	0.68	0.035	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.035	0.68	0.035	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.091	0.68	0.091	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.059	0.68	0.059	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.021	0.33	0.021	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.043	0.68	0.043	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.019	0.33	0.019	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.019	0.33	0.019	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.038	0.68	0.038	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.028	0.33	0.028	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.035	0.68	0.035	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.020	0.33	0.020	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.036	0.68	0.036	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.39	1.6	0.39	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.033	0.33	0.033	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.075	0.68	0.075	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.017	0.33	0.017	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.040	0.68	0.040	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.11	0.68	0.11	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.023	0.33	0.023	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.027	0.68	0.027	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.023	0.33	0.023	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.10	0.68	0.10	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.028	0.33	0.028	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.023	0.33	0.023	mg/kg dry	1	"	"	"	"	
Aniline	<0.091	0.68	0.091	mg/kg dry	1	"	"	"	"	
Anthracene	<0.025	0.33	0.025	mg/kg dry	1	"	"	"	"	
Benzidine	<0.73	2.5	0.73	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.027	0.33	0.027	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.027	0.33	0.027	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.034	0.33	0.034	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.030	0.33	0.030	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
M-2 (0904029-11) Soil Sampled: 09/10/09 00:00 Received: 09/11/09 14:55										
Benzo (k) fluoranthene	<0.031	0.33	0.031	mg/kg dry	1	B9I1804	09/18/09	09/18/09	EPA 8270C	
Benzoic acid	<0.059	0.33	0.059	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.12	0.68	0.12	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.021	0.33	0.021	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.024	0.33	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.022	0.33	0.022	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.020	0.33	0.020	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.021	0.33	0.021	mg/kg dry	1	"	"	"	"	
Carbazole	<0.022	0.33	0.022	mg/kg dry	1	"	"	"	"	
Chrysene	<0.033	0.33	0.033	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.034	0.33	0.034	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.019	0.33	0.019	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.015	0.33	0.015	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.018	0.33	0.018	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.037	0.33	0.037	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.025	0.33	0.025	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.024	0.33	0.024	mg/kg dry	1	"	"	"	"	
Fluorene	<0.018	0.33	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.016	0.33	0.016	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.033	0.33	0.033	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.041	0.33	0.041	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.028	0.33	0.028	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.032	0.33	0.032	mg/kg dry	1	"	"	"	"	
Isophorone	<0.017	0.33	0.017	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.029	0.33	0.029	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.030	0.33	0.030	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.032	0.33	0.032	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.025	0.33	0.025	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.018	0.33	0.018	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.097	0.68	0.097	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.019	0.33	0.019	mg/kg dry	1	"	"	"	"	
Phenol	<0.058	0.68	0.058	mg/kg dry	1	"	"	"	"	
Pyrene	<0.023	0.33	0.023	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*68.8*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*76.6*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*74.9*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*76.7*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*75.9*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*95.2*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-M1 (0904029-12) Soil Sampled: 09/10/09 00:00 Received: 09/11/09 14:55										
1,2,4-Trichlorobenzene	<0.030	0.37	0.030	mg/kg dry	1	B9I1804	09/18/09	09/18/09	EPA 8270C	
1,2-Dichlorobenzene	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.022	0.37	0.022	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.027	0.37	0.027	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.043	0.75	0.043	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.027	0.75	0.027	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.039	0.75	0.039	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.039	0.75	0.039	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.75	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.065	0.75	0.065	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.024	0.37	0.024	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.048	0.75	0.048	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.043	0.75	0.043	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.031	0.37	0.031	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.039	0.75	0.039	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.022	0.37	0.022	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.040	0.75	0.040	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.44	1.8	0.44	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.037	0.37	0.037	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.083	0.75	0.083	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.019	0.37	0.019	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.045	0.75	0.045	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.12	0.75	0.12	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.030	0.75	0.030	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.75	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.031	0.37	0.031	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.75	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
Benzidine	<0.81	2.8	0.81	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.030	0.37	0.030	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.030	0.37	0.030	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.038	0.37	0.038	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.034	0.37	0.034	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-M1 (0904029-12) Soil Sampled: 09/10/09 00:00 Received: 09/11/09 14:55										
Benzo (k) fluoranthene	<0.035	0.37	0.035	mg/kg dry	1	B9I1804	09/18/09	09/18/09	EPA 8270C	
Benzoic acid	<0.065	0.37	0.065	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.13	0.75	0.13	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.024	0.37	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.027	0.37	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.025	0.37	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.022	0.37	0.022	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.024	0.37	0.024	mg/kg dry	1	"	"	"	"	
Carbazole	<0.025	0.37	0.025	mg/kg dry	1	"	"	"	"	
Chrysene	<0.037	0.37	0.037	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.038	0.37	0.038	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.017	0.37	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.020	0.37	0.020	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.042	0.37	0.042	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.027	0.37	0.027	mg/kg dry	1	"	"	"	"	
Fluorene	<0.020	0.37	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.018	0.37	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.037	0.37	0.037	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.046	0.37	0.046	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.031	0.37	0.031	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.036	0.37	0.036	mg/kg dry	1	"	"	"	"	
Isophorone	<0.019	0.37	0.019	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.033	0.37	0.033	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.034	0.37	0.034	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.036	0.37	0.036	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.020	0.37	0.020	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.75	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
Phenol	<0.064	0.75	0.064	mg/kg dry	1	"	"	"	"	
Pyrene	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*74.5*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*77.3*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*74.9*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*75.8*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*76.3*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*91.7*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
FB-1 (0904029-13) Water Sampled: 09/10/09 13:30 Received: 09/11/09 14:55										
1,2,4-Trichlorobenzene	<0.18	9.3	0.18	ug/L	1	B9I1503	09/15/09	09/15/09	EPA 8270C	
1,2-Dichlorobenzene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.56	9.3	0.56	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	9.3	0.74	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<1.5	9.3	1.5	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<0.93	9.3	0.93	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<0.31	9.3	0.31	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
2-Chlorophenol	<0.42	9.3	0.42	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<0.61	9.3	0.61	ug/L	1	"	"	"	"	
2-Methylphenol	<0.58	9.3	0.58	ug/L	1	"	"	"	"	
2-Nitroaniline	<0.67	9.3	0.67	ug/L	1	"	"	"	"	
2-Nitrophenol	<0.83	9.3	0.83	ug/L	1	"	"	"	"	
3,3´-Dichlorobenzidine	<6.8	23	6.8	ug/L	1	"	"	"	"	
3-Nitroaniline	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.60	9.3	0.60	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.51	9.3	0.51	ug/L	1	"	"	"	"	
4-Chloroaniline	<2.1	9.3	2.1	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
4-Methylphenol	<0.73	9.3	0.73	ug/L	1	"	"	"	"	
4-Nitroaniline	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
4-Nitrophenol	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Acenaphthene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
Acenaphthylene	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
Aniline	<2.0	9.3	2.0	ug/L	1	"	"	"	"	
Anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzidine	<17	93	17	ug/L	1	"	"	"	"	
Benzo (a) anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzo (a) pyrene	<0.27	9.3	0.27	ug/L	1	"	"	"	"	
Benzo (b) fluoranthene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
FB-1 (0904029-13) Water Sampled: 09/10/09 13:30 Received: 09/11/09 14:55										
Benzo (k) fluoranthene	<0.29	9.3	0.29	ug/L	1	B9I1503	09/15/09	09/15/09	EPA 8270C	
Benzoic acid	**7.6**	9.3	1.1	ug/L	1	"	"	"	"	J
Benzyl alcohol	<0.50	9.3	0.50	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.17	9.3	0.17	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.18	9.3	0.18	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.40	9.3	0.40	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Carbazole	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Chrysene	<0.25	9.3	0.25	ug/L	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dibenzofuran	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Diethyl phthalate	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dimethyl phthalate	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<0.35	9.3	0.35	ug/L	1	"	"	"	"	
Fluoranthene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Fluorene	<0.37	9.3	0.37	ug/L	1	"	"	"	"	
Hexachlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Hexachloroethane	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Isophorone	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Naphthalene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Nitrobenzene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<0.88	9.3	0.88	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Pentachlorophenol	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
Phenanthrene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Phenol	<0.53	9.3	0.53	ug/L	1	"	"	"	"	
Pyrene	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*77.3*			*48.5-114 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*77.9*			*41.7-98.4 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*62.8*			*30-93.5 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*77.2*			*47.4-97.8 %*		"	"	"	"	
Surrogate: Phenol-d6	*56.0*			*30-91.5 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*106*			*30-108 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
FB-2 (0904029-14) Water Sampled: 09/10/09 17:30 Received: 09/11/09 14:55										
1,2,4-Trichlorobenzene	<0.18	9.3	0.18	ug/L	1	B9I1503	09/15/09	09/15/09	EPA 8270C	
1,2-Dichlorobenzene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.56	9.3	0.56	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	9.3	0.74	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<1.5	9.3	1.5	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<0.93	9.3	0.93	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<0.31	9.3	0.31	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
2-Chlorophenol	<0.42	9.3	0.42	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<0.61	9.3	0.61	ug/L	1	"	"	"	"	
2-Methylphenol	<0.58	9.3	0.58	ug/L	1	"	"	"	"	
2-Nitroaniline	<0.67	9.3	0.67	ug/L	1	"	"	"	"	
2-Nitrophenol	<0.83	9.3	0.83	ug/L	1	"	"	"	"	
3,3´-Dichlorobenzidine	<6.8	23	6.8	ug/L	1	"	"	"	"	
3-Nitroaniline	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.60	9.3	0.60	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.51	9.3	0.51	ug/L	1	"	"	"	"	
4-Chloroaniline	<2.1	9.3	2.1	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
4-Methylphenol	<0.73	9.3	0.73	ug/L	1	"	"	"	"	
4-Nitroaniline	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
4-Nitrophenol	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Acenaphthene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
Acenaphthylene	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
Aniline	<2.0	9.3	2.0	ug/L	1	"	"	"	"	
Anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzidine	<17	93	17	ug/L	1	"	"	"	"	
Benzo (a) anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzo (a) pyrene	<0.27	9.3	0.27	ug/L	1	"	"	"	"	
Benzo (b) fluoranthene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
FB-2 (0904029-14) Water Sampled: 09/10/09 17:30 Received: 09/11/09 14:55										
Benzo (k) fluoranthene	<0.29	9.3	0.29	ug/L	1	B9I1503	09/15/09	09/15/09	EPA 8270C	
Benzoic acid	**7.6**	9.3	1.1	ug/L	1	"	"	"	"	J
Benzyl alcohol	<0.50	9.3	0.50	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.17	9.3	0.17	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.18	9.3	0.18	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.40	9.3	0.40	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Carbazole	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Chrysene	<0.25	9.3	0.25	ug/L	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dibenzofuran	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Diethyl phthalate	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dimethyl phthalate	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<0.35	9.3	0.35	ug/L	1	"	"	"	"	
Fluoranthene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Fluorene	<0.37	9.3	0.37	ug/L	1	"	"	"	"	
Hexachlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Hexachloroethane	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Isophorone	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Naphthalene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Nitrobenzene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<0.88	9.3	0.88	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Pentachlorophenol	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
Phenanthrene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Phenol	<0.53	9.3	0.53	ug/L	1	"	"	"	"	
Pyrene	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*77.3*			*48.5-114 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*81.2*			*41.7-98.4 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*70.4*			*30-93.5 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*81.1*			*47.4-97.8 %*		"	"	"	"	
Surrogate: Phenol-d6	*63.1*			*30-91.5 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*104*			*30-108 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2003 - EPA 200.8 Digestion											
Blank (B9I2003-BLK1)					Prepared: 09/20/09		Analyzed: 09/24/09				
Antimony	< 0.046	0.50	0.046	ug/L							
Beryllium	< 0.027	0.50	0.027	ug/L							
Thallium	< 0.0081	0.50	0.0081	ug/L							
LCS (B9I2003-BS1)					Prepared: 09/20/09		Analyzed: 09/24/09				
Antimony	23.1	0.50	0.046	ug/L	20.0		116	80-120			
Beryllium	22.4	0.50	0.027	ug/L	20.0		112	80-120			
Thallium	20.6	0.50	0.0081	ug/L	20.0		103	80-120			
LCS Dup (B9I2003-BSD1)					Prepared: 09/20/09		Analyzed: 09/24/09				
Antimony	22.1	0.50	0.046	ug/L	20.0		111	80-120	4.30	20	
Beryllium	21.9	0.50	0.027	ug/L	20.0		109	80-120	2.42	20	
Thallium	21.5	0.50	0.0081	ug/L	20.0		108	80-120	4.58	20	
Matrix Spike (B9I2003-MS1)		**Source: 0903921-02**			Prepared: 09/20/09		Analyzed: 09/24/09				
Antimony	15.7	0.50	0.046	ug/L	20.0	0.542	75.8	75-125			
Beryllium	4.78	0.50	0.027	ug/L	20.0	<0.50	23.9	75-125			M2
Thallium	21.7	0.50	0.0081	ug/L	20.0	<0.50	108	75-125			
Matrix Spike Dup (B9I2003-MSD1)		**Source: 0903921-02**			Prepared: 09/20/09		Analyzed: 09/24/09				
Antimony	19.0	0.50	0.046	ug/L	20.0	0.542	92.2	75-125	19.0	20	
Beryllium	4.96	0.50	0.027	ug/L	20.0	<0.50	24.8	75-125	3.76	20	M2
Thallium	21.7	0.50	0.0081	ug/L	20.0	<0.50	108	75-125	0.323	20	
Batch B9I2004 - EPA 200.7/3005A Digestion											
Blank (B9I2004-BLK1)					Prepared & Analyzed: 09/20/09						
Arsenic	< 10	10	2.0	ug/L							
Cadmium	< 1.0	1.0	0.099	ug/L							
Chromium	< 10	10	0.24	ug/L							
Copper	< 20	20	1.4	ug/L							
Lead	< 3.0	3.0	0.68	ug/L							
Nickel	< 5.0	5.0	0.28	ug/L							
Selenium	< 20	20	2.2	ug/L							
Silver	< 5.0	5.0	0.18	ug/L							
Zinc	< 20	20	4.4	ug/L							
LCS (B9I2004-BS1)					Prepared: 09/20/09		Analyzed: 09/21/09				
Arsenic	332	10	2.0	ug/L	399		83.2	80-120			
Cadmium	353	1.0	0.099	ug/L	399		88.4	80-120			
Chromium	366	10	0.24	ug/L	399		91.8	80-120			
Copper	338	20	1.4	ug/L	399		84.7	80-120			
Lead	357	3.0	0.68	ug/L	399		89.4	80-120			
Nickel	360	5.0	0.28	ug/L	399		90.3	80-120			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2004 - EPA 200.7/3005A Digestion											
LCS (B9I2004-BS1)					Prepared: 09/20/09		Analyzed: 09/21/09				
Selenium	330	20	2.2	ug/L	399		82.8	80-120			
Silver	34.1	5.0	0.18	ug/L	39.9		85.4	80-120			
Zinc	343	20	4.4	ug/L	399		86.0	80-120			
LCS Dup (B9I2004-BSD1)					Prepared: 09/20/09		Analyzed: 09/21/09				
Arsenic	338	10	2.0	ug/L	399		84.8	80-120	1.84	20	
Cadmium	362	1.0	0.099	ug/L	399		90.7	80-120	2.59	20	
Chromium	367	10	0.24	ug/L	399		92.1	80-120	0.260	20	
Copper	340	20	1.4	ug/L	399		85.3	80-120	0.643	20	
Lead	368	3.0	0.68	ug/L	399		92.1	80-120	2.95	20	
Nickel	364	5.0	0.28	ug/L	399		91.3	80-120	1.01	20	
Selenium	333	20	2.2	ug/L	399		83.4	80-120	0.634	20	
Silver	33.8	5.0	0.18	ug/L	39.9		84.6	80-120	0.933	20	
Zinc	348	20	4.4	ug/L	399		87.2	80-120	1.31	20	
Matrix Spike (B9I2004-MS1)		**Source: 0904026-01**			Prepared: 09/20/09		Analyzed: 09/21/09				
Arsenic	343	10	2.0	ug/L	399	<10	86.0	75-125			
Cadmium	358	1.0	0.099	ug/L	399	<1.0	89.8	75-125			
Chromium	364	10	0.24	ug/L	399	<10	91.2	75-125			
Copper	343	20	1.4	ug/L	399	<20	85.9	75-125			
Lead	362	3.0	0.68	ug/L	399	<3.0	90.7	75-125			
Nickel	361	5.0	0.28	ug/L	399	28.1	83.5	75-125			
Selenium	338	20	2.2	ug/L	399	<20	84.6	75-125			
Silver	33.9	5.0	0.18	ug/L	39.9	<5.0	85.0	75-125			
Zinc	347	20	4.4	ug/L	399	<20	87.0	75-125			
Matrix Spike Dup (B9I2004-MSD1)		**Source: 0904026-01**			Prepared: 09/20/09		Analyzed: 09/21/09				
Arsenic	347	10	2.0	ug/L	399	<10	86.9	75-125	1.02	20	
Cadmium	358	1.0	0.099	ug/L	399	<1.0	89.6	75-125	0.192	20	
Chromium	361	10	0.24	ug/L	399	<10	90.4	75-125	0.798	20	
Copper	345	20	1.4	ug/L	399	<20	86.4	75-125	0.605	20	
Lead	361	3.0	0.68	ug/L	399	<3.0	90.4	75-125	0.319	20	
Nickel	362	5.0	0.28	ug/L	399	28.1	83.6	75-125	0.141	20	
Selenium	341	20	2.2	ug/L	399	<20	85.5	75-125	1.09	20	
Silver	33.8	5.0	0.18	ug/L	39.9	<5.0	84.8	75-125	0.148	20	
Zinc	366	20	4.4	ug/L	399	<20	91.7	75-125	5.18	20	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2107 - EPA 7471A											
Blank (B9I2107-BLK1)					Prepared: 09/21/09		Analyzed: 09/22/09				
Mercury	< 0.10	0.10	0.0018	mg/kg wet							
LCS (B9I2107-BS1)					Prepared: 09/21/09		Analyzed: 09/22/09				
Mercury	0.226	0.10	0.0018	mg/kg wet	0.200		113	80-120			
LCS Dup (B9I2107-BSD1)					Prepared: 09/21/09		Analyzed: 09/22/09				
Mercury	0.235	0.10	0.0018	mg/kg wet	0.200		118	80-120	3.90	20	
Matrix Spike (B9I2107-MS1)		**Source: 0904029-03**			Prepared: 09/21/09		Analyzed: 09/22/09				
Mercury	0.235	0.10	0.0019	mg/kg dry	0.208	<0.10	113	75-125			
Matrix Spike Dup (B9I2107-MSD1)		**Source: 0904029-03**			Prepared: 09/21/09		Analyzed: 09/22/09				
Mercury	0.229	0.10	0.0019	mg/kg dry	0.208	<0.10	110	75-125	2.69	20	
Batch B9I2109 - EPA 245.1/7470A Digestion											
Blank (B9I2109-BLK1)					Prepared: 09/21/09		Analyzed: 09/22/09				
Mercury	< 0.20	0.20	0.018	ug/L							
LCS (B9I2109-BS1)					Prepared: 09/21/09		Analyzed: 09/22/09				
Mercury	2.12	0.20	0.018	ug/L	2.00		106	80-120			
LCS Dup (B9I2109-BSD1)					Prepared: 09/21/09		Analyzed: 09/22/09				
Mercury	2.16	0.20	0.018	ug/L	2.00		108	80-120	1.87	20	
Matrix Spike (B9I2109-MS1)		**Source: 0904075-01**			Prepared: 09/21/09		Analyzed: 09/22/09				
Mercury	1.97	0.20	0.018	ug/L	2.00	<0.20	98.5	75-125			
Matrix Spike Dup (B9I2109-MSD1)		**Source: 0904075-01**			Prepared: 09/21/09		Analyzed: 09/22/09				
Mercury	2.07	0.20	0.018	ug/L	2.00	<0.20	104	75-125	4.95	20	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2113 - EPA 3050B											
Blank (B9I2113-BLK1)					Prepared: 09/21/09	Analyzed: 09/25/09					
Antimony	< 0.50	0.50	0.0055	mg/kg wet							
Arsenic	< 0.50	0.50	0.10	mg/kg wet							
Beryllium	< 0.25	0.25	0.011	mg/kg wet							
Cadmium	< 0.25	0.25	0.025	mg/kg wet							
Chromium	< 0.50	0.50	0.012	mg/kg wet							
Copper	< 1.0	1.0	0.070	mg/kg wet							
Lead	< 1.0	1.0	0.034	mg/kg wet							
Nickel	< 0.50	0.50	0.014	mg/kg wet							
Selenium	< 1.0	1.0	0.11	mg/kg wet							
Silver	< 0.25	0.25	0.0090	mg/kg wet							
Thallium	< 2.0	2.0	0.13	mg/kg wet							
Zinc	< 1.0	1.0	0.22	mg/kg wet							
LCS (B9I2113-BS1)					Prepared: 09/21/09	Analyzed: 09/25/09					
Antimony	39.1	0.50	0.0055	mg/kg wet	39.9		98.1	80-120			
Arsenic	40.0	0.50	0.10	mg/kg wet	39.9		100	80-120			
Beryllium	4.12	0.25	0.011	mg/kg wet	3.99		103	80-120			
Cadmium	41.0	0.25	0.025	mg/kg wet	39.9		103	80-120			
Chromium	40.3	0.50	0.012	mg/kg wet	39.9		101	80-120			
Copper	39.2	1.0	0.070	mg/kg wet	39.9		98.3	80-120			
Lead	40.7	1.0	0.034	mg/kg wet	39.9		102	80-120			
Nickel	40.7	0.50	0.014	mg/kg wet	39.9		102	80-120			
Selenium	39.6	1.0	0.11	mg/kg wet	39.9		99.2	80-120			
Silver	3.40	0.25	0.0090	mg/kg wet	3.99		85.1	80-120			
Thallium	39.3	2.0	0.13	mg/kg wet	39.9		98.4	80-120			
Zinc	42.0	1.0	0.22	mg/kg wet	39.9		105	80-120			
LCS Dup (B9I2113-BSD1)					Prepared: 09/21/09	Analyzed: 09/25/09					
Antimony	39.0	0.50	0.0055	mg/kg wet	39.9		97.7	80-120	0.374	20	
Arsenic	40.6	0.50	0.10	mg/kg wet	39.9		102	80-120	1.36	20	
Beryllium	4.17	0.25	0.011	mg/kg wet	3.99		104	80-120	1.07	20	
Cadmium	41.5	0.25	0.025	mg/kg wet	39.9		104	80-120	1.12	20	
Chromium	40.8	0.50	0.012	mg/kg wet	39.9		102	80-120	1.13	20	
Copper	40.2	1.0	0.070	mg/kg wet	39.9		101	80-120	2.52	20	
Lead	41.0	1.0	0.034	mg/kg wet	39.9		103	80-120	0.783	20	
Nickel	41.0	0.50	0.014	mg/kg wet	39.9		103	80-120	0.821	20	
Selenium	40.2	1.0	0.11	mg/kg wet	39.9		101	80-120	1.44	20	
Silver	3.45	0.25	0.0090	mg/kg wet	3.99		86.4	80-120	1.48	20	
Thallium	39.6	2.0	0.13	mg/kg wet	39.9		99.2	80-120	0.750	20	
Zinc	43.6	1.0	0.22	mg/kg wet	39.9		109	80-120	3.77	20	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2113 - EPA 3050B											
Matrix Spike (B9I2113-MS1)		**Source: 0904029-03**			Prepared: 09/21/09		Analyzed: 09/25/09				
Antimony	38.5	0.52	0.0057	mg/kg dry	41.6	<0.52	92.7	75-125			
Arsenic	42.4	0.52	0.10	mg/kg dry	41.6	1.52	98.4	75-125			
Beryllium	4.37	0.26	0.011	mg/kg dry	4.16	<0.26	105	75-125			
Cadmium	38.9	0.26	0.026	mg/kg dry	41.6	<0.26	93.6	75-125			
Chromium	45.3	0.52	0.012	mg/kg dry	41.6	4.45	98.3	75-125			
Copper	46.9	1.0	0.073	mg/kg dry	41.6	6.94	96.2	75-125			
Lead	40.8	1.0	0.035	mg/kg dry	41.6	1.51	94.6	75-125			
Nickel	45.5	0.52	0.015	mg/kg dry	41.6	5.81	95.4	75-125			
Selenium	40.6	1.0	0.11	mg/kg dry	41.6	<1.0	96.6	75-125			
Silver	3.94	0.26	0.0094	mg/kg dry	4.16	<0.26	94.9	75-125			
Thallium	37.0	2.1	0.14	mg/kg dry	41.6	<2.1	89.0	75-125			
Zinc	41.3	1.0	0.23	mg/kg dry	41.6	3.57	90.8	75-125			
Matrix Spike Dup (B9I2113-MSD1)		**Source: 0904029-03**			Prepared: 09/21/09		Analyzed: 09/25/09				
Antimony	39.2	0.52	0.0057	mg/kg dry	41.6	<0.52	94.2	75-125	1.66	20	
Arsenic	43.0	0.52	0.10	mg/kg dry	41.6	1.52	99.8	75-125	1.37	20	
Beryllium	4.41	0.26	0.011	mg/kg dry	4.16	<0.26	106	75-125	0.927	20	
Cadmium	38.2	0.26	0.026	mg/kg dry	41.6	<0.26	91.8	75-125	1.95	20	
Chromium	44.4	0.52	0.012	mg/kg dry	41.6	4.45	96.0	75-125	2.10	20	
Copper	46.9	1.0	0.073	mg/kg dry	41.6	6.94	96.1	75-125	0.119	20	
Lead	39.7	1.0	0.035	mg/kg dry	41.6	1.51	91.9	75-125	2.78	20	
Nickel	43.2	0.52	0.015	mg/kg dry	41.6	5.81	89.9	75-125	5.17	20	
Selenium	41.1	1.0	0.11	mg/kg dry	41.6	<1.0	97.9	75-125	1.36	20	
Silver	4.04	0.26	0.0094	mg/kg dry	4.16	<0.26	97.2	75-125	2.42	20	
Thallium	36.5	2.1	0.14	mg/kg dry	41.6	<2.1	87.7	75-125	1.51	20	
Zinc	26.7	1.0	0.23	mg/kg dry	41.6	3.57	55.6	75-125	42.9	20	M2, QR-04

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

PCB 8082 - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1513 - EPA 3545 ASE Extraction											
Blank (B9I1513-BLK1)					Prepared: 09/15/09		Analyzed: 09/17/09				
Aroclor 1016	< 0.20	0.20	0.012	mg/kg wet							
Aroclor 1221	< 0.20	0.20	0.020	mg/kg wet							
Aroclor 1232	< 0.20	0.20	0.015	mg/kg wet							
Aroclor 1242	< 0.20	0.20	0.019	mg/kg wet							
Aroclor 1248	< 0.20	0.20	0.011	mg/kg wet							
Aroclor 1254	< 0.20	0.20	0.015	mg/kg wet							
Aroclor 1260	< 0.20	0.20	0.011	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0567*			*mg/kg wet*	*0.0667*		*85.0*	*65.3-143*			
Surrogate: Tetrachloro-meta-xylene	*0.0617*			*mg/kg wet*	*0.0667*		*92.5*	*60.9-138*			
LCS (B9I1513-BS1)					Prepared: 09/15/09		Analyzed: 09/17/09				
Aroclor 1260	0.268	0.20	0.011	mg/kg wet	0.333		80.3	70-130			
Surrogate: Decachlorobiphenyl	*0.0493*			*mg/kg wet*	*0.0667*		*74.0*	*65.3-143*			
Surrogate: Tetrachloro-meta-xylene	*0.0523*			*mg/kg wet*	*0.0667*		*78.5*	*60.9-138*			
Matrix Spike (B9I1513-MS1)		**Source: 0904054-02**			Prepared: 09/15/09		Analyzed: 09/17/09				
Aroclor 1260	0.385	0.24	0.013	mg/kg dry	0.406	<0.24	94.8	70-130			
Surrogate: Decachlorobiphenyl	*0.0690*			*mg/kg dry*	*0.0811*		*85.0*	*65.3-143*			
Surrogate: Tetrachloro-meta-xylene	*0.0682*			*mg/kg dry*	*0.0811*		*84.0*	*60.9-138*			
Matrix Spike Dup (B9I1513-MSD1)		**Source: 0904054-02**			Prepared: 09/15/09		Analyzed: 09/17/09				
Aroclor 1260	0.403	0.24	0.013	mg/kg dry	0.405	<0.24	99.5	70-130	4.64	17.2	
Surrogate: Decachlorobiphenyl	*0.0692*			*mg/kg dry*	*0.0810*		*85.5*	*65.3-143*			
Surrogate: Tetrachloro-meta-xylene	*0.0717*			*mg/kg dry*	*0.0810*		*88.5*	*60.9-138*			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

PERCENT SOLIDS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2103 - General Preparation											
Duplicate (B9I2103-DUP1)		**Source: 0904026-04**			Prepared: 09/21/09		Analyzed: 09/22/09				
% Solids	98.0			%		98.0			0.00	20	
Duplicate (B9I2103-DUP2)		**Source: 0904029-10**			Prepared: 09/21/09		Analyzed: 09/22/09				
% Solids	87.0			%		87.0			0.00	20	
Duplicate (B9I2103-DUP3)		**Source: 0904031-05**			Prepared: 09/21/09		Analyzed: 09/22/09				
% Solids	93.0			%		93.0			0.00	20	
Duplicate (B9I2103-DUP4)		**Source: 0904107-02**			Prepared: 09/21/09		Analyzed: 09/22/09				
% Solids	88.0			%		86.0			2.30	20	
Duplicate (B9I2103-DUP5)		**Source: 0904128-01**			Prepared: 09/21/09		Analyzed: 09/22/09				
% Solids	96.0			%		95.0			1.05	20	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1503 - EPA 3510C (Sep Funnel)											
Blank (B9I1503-BLK1)					Prepared: 09/15/09 Analyzed: 09/16/09						
1,2,4-Trichlorobenzene	< 0.19	10	0.19	ug/L							
1,2-Dichlorobenzene	< 0.23	10	0.23	ug/L							
1,2-Diphenylhydrazine as Azobenzene	< 0.24	10	0.24	ug/L							
1,3-Dichlorobenzene	< 0.21	10	0.21	ug/L							
1,4-Dichlorobenzene	< 0.22	10	0.22	ug/L							
2,3,4,6-Tetrachlorophenol	< 0.61	10	0.61	ug/L							
2,4,5-Trichlorophenol	< 0.80	10	0.80	ug/L							
2,4,6-Trichlorophenol	< 0.48	10	0.48	ug/L							
2,4-Dichlorophenol	< 0.47	10	0.47	ug/L							
2,4-Dimethylphenol	< 1.6	10	1.6	ug/L							
2,4-Dinitrophenol	< 1.0	10	1.0	ug/L							
2,4-Dinitrotoluene	< 0.33	10	0.33	ug/L							
2,6-Dichlorophenol	< 0.48	10	0.48	ug/L							
2,6-Dinitrotoluene	< 0.36	10	0.36	ug/L							
2-Chloronaphthalene	< 0.28	10	0.28	ug/L							
2-Chlorophenol	< 0.45	10	0.45	ug/L							
2-Methylnaphthalene	< 0.66	10	0.66	ug/L							
2-Methylphenol	< 0.63	10	0.63	ug/L							
2-Nitroaniline	< 0.72	10	0.72	ug/L							
2-Nitrophenol	< 0.90	10	0.90	ug/L							
3,3´-Dichlorobenzidine	< 7.3	25	7.3	ug/L							
3-Nitroaniline	< 1.2	10	1.2	ug/L							
4,6-Dinitro-2-methylphenol	< 0.65	10	0.65	ug/L							
4-Bromophenyl phenyl ether	< 0.17	10	0.17	ug/L							
4-Chloro-3-methylphenol	< 0.55	10	0.55	ug/L							
4-Chloroaniline	< 2.3	10	2.3	ug/L							
4-Chlorophenyl phenyl ether	< 0.25	10	0.25	ug/L							
4-Methylphenol	< 0.79	10	0.79	ug/L							
4-Nitroaniline	< 0.59	10	0.59	ug/L							
4-Nitrophenol	< 1.2	10	1.2	ug/L							
Acenaphthene	< 0.36	10	0.36	ug/L							
Acenaphthylene	< 0.25	10	0.25	ug/L							
Aniline	< 2.2	10	2.2	ug/L							
Anthracene	< 0.37	10	0.37	ug/L							
Benzidine	< 18	100	18	ug/L							
Benzo (a) anthracene	< 0.37	10	0.37	ug/L							
Benzo (a) pyrene	< 0.29	10	0.29	ug/L							
Benzo (b) fluoranthene	< 0.22	10	0.22	ug/L							
Benzo (g,h,i) perylene	< 0.26	10	0.26	ug/L							

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1503 - EPA 3510C (Sep Funnel)											
Blank (B9I1503-BLK1)					Prepared: 09/15/09	Analyzed: 09/16/09					
Benzo (k) fluoranthene	< 0.31	10	0.31	ug/L							
Benzoic acid	< 1.2	10	1.2	ug/L							
Benzyl alcohol	< 0.54	10	0.54	ug/L							
Bis(2-chloroethoxy)methane	< 0.18	10	0.18	ug/L							
Bis(2-chloroethyl)ether	< 0.17	10	0.17	ug/L							
Bis(2-chloroisopropyl)ether	< 0.19	10	0.19	ug/L							
Bis(2-ethylhexyl)phthalate	< 0.43	10	0.43	ug/L							
Butyl benzyl phthalate	< 0.37	10	0.37	ug/L							
Carbazole	< 0.26	10	0.26	ug/L							
Chrysene	< 0.27	10	0.27	ug/L							
Dibenz (a,h) anthracene	< 0.23	10	0.23	ug/L							
Dibenzofuran	< 0.39	10	0.39	ug/L							
Diethyl phthalate	< 0.23	10	0.23	ug/L							
Dimethyl phthalate	< 0.24	10	0.24	ug/L							
Di-n-butyl phthalate	< 0.28	10	0.28	ug/L							
Di-n-octyl phthalate	< 0.38	10	0.38	ug/L							
Fluoranthene	< 0.39	10	0.39	ug/L							
Fluorene	< 0.40	10	0.40	ug/L							
Hexachlorobenzene	< 0.20	10	0.20	ug/L							
Hexachlorobutadiene	< 0.26	10	0.26	ug/L							
Hexachlorocyclopentadiene	< 0.31	10	0.31	ug/L							
Hexachloroethane	< 0.31	10	0.31	ug/L							
Indeno (1,2,3-cd) pyrene	< 0.31	10	0.31	ug/L							
Isophorone	< 0.23	10	0.23	ug/L							
Naphthalene	< 0.37	10	0.37	ug/L							
Nitrobenzene	< 0.39	10	0.39	ug/L							
N-Nitrosodimethylamine	< 0.95	10	0.95	ug/L							
N-Nitrosodi-n-propylamine	< 0.21	10	0.21	ug/L							
N-Nitrosodiphenylamine	< 0.23	10	0.23	ug/L							
Pentachlorophenol	< 0.59	10	0.59	ug/L							
Phenanthrene	< 0.39	10	0.39	ug/L							
Phenol	< 0.57	10	0.57	ug/L							
Pyrene	< 0.47	10	0.47	ug/L							
Surrogate: 2,4,6-Tribromophenol	*84.8*			*ug/L*	*100*		*84.8*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*62.8*			*ug/L*	*100*		*62.8*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*37.7*			*ug/L*	*100*		*37.7*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*67.9*			*ug/L*	*100*		*67.9*	*47.4-97.8*			
Surrogate: Phenol-d6	*35.2*			*ug/L*	*100*		*35.2*	*30-91.5*			
Surrogate: Terphenyl-d14	*73.7*			*ug/L*	*100*		*73.7*	*30-108*			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1503 - EPA 3510C (Sep Funnel)											
LCS (B9I1503-BS1)					Prepared: 09/15/09		Analyzed: 09/16/09				
1,2,4-Trichlorobenzene	58.6	10	0.19	ug/L	100		58.6	48.2-88.3			
1,4-Dichlorobenzene	53.4	10	0.22	ug/L	100		53.4	42.8-82.2			
2,4-Dinitrotoluene	90.1	10	0.33	ug/L	100		90.1	64.6-98.9			
2-Chlorophenol	62.9	10	0.45	ug/L	100		62.9	56.5-88.1			
4-Chloro-3-methylphenol	75.0	10	0.55	ug/L	100		75.0	63.4-95.2			
4-Nitrophenol	60.6	10	1.2	ug/L	100		60.6	51.3-90.6			
Anthracene	84.4	10	0.37	ug/L	100		84.4	66.7-92.8			
Benzo (a) anthracene	91.4	10	0.37	ug/L	100		91.4	72.7-97.2			
Benzo (a) pyrene	86.3	10	0.29	ug/L	100		86.3	66.4-101			
Chrysene	90.9	10	0.27	ug/L	100		90.9	71.5-98.1			
Fluoranthene	83.5	10	0.39	ug/L	100		83.5	68.8-94			
Fluorene	80.1	10	0.40	ug/L	100		80.1	64.2-94.4			
N-Nitrosodi-n-propylamine	85.8	10	0.21	ug/L	100		85.8	63.6-92.8			
Pentachlorophenol	87.5	10	0.59	ug/L	100		87.5	60.2-101			
Phenanthrene	85.6	10	0.39	ug/L	100		85.6	68.1-94.8			
Phenol	43.1	10	0.57	ug/L	100		43.1	39.6-71			
Surrogate: 2,4,6-Tribromophenol	*87.9*			*ug/L*	*100*		*87.9*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*70.5*			*ug/L*	*100*		*70.5*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*49.7*			*ug/L*	*100*		*49.7*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*82.4*			*ug/L*	*100*		*82.4*	*47.4-97.8*			
Surrogate: Phenol-d6	*44.1*			*ug/L*	*100*		*44.1*	*30-91.5*			
Surrogate: Terphenyl-d14	*83.3*			*ug/L*	*100*		*83.3*	*30-108*			
LCS Dup (B9I1503-BSD1)					Prepared: 09/15/09		Analyzed: 09/16/09				
1,2,4-Trichlorobenzene	60.1	10	0.19	ug/L	100		60.1	48.2-88.3	2.60	20	
1,4-Dichlorobenzene	55.1	10	0.22	ug/L	100		55.1	42.8-82.2	3.10	20	
2,4-Dinitrotoluene	91.5	10	0.33	ug/L	100		91.5	64.6-98.9	1.51	20	
2-Chlorophenol	63.6	10	0.45	ug/L	100		63.6	56.5-88.1	1.07	20	
4-Chloro-3-methylphenol	77.9	10	0.55	ug/L	100		77.9	63.4-95.2	3.85	20	
4-Nitrophenol	61.0	10	1.2	ug/L	100		61.0	51.3-90.6	0.653	20	
Anthracene	86.3	10	0.37	ug/L	100		86.3	66.7-92.8	2.22	20	
Benzo (a) anthracene	93.9	10	0.37	ug/L	100		93.9	72.7-97.2	2.77	20	
Benzo (a) pyrene	88.6	10	0.29	ug/L	100		88.6	66.4-101	2.61	20	
Chrysene	93.0	10	0.27	ug/L	100		93.0	71.5-98.1	2.27	20	
Fluoranthene	85.6	10	0.39	ug/L	100		85.6	68.8-94	2.41	20	
Fluorene	81.1	10	0.40	ug/L	100		81.1	64.2-94.4	1.22	20	
N-Nitrosodi-n-propylamine	86.4	10	0.21	ug/L	100		86.4	63.6-92.8	0.697	20	
Pentachlorophenol	89.1	10	0.59	ug/L	100		89.1	60.2-101	1.80	20	
Phenanthrene	87.4	10	0.39	ug/L	100		87.4	68.1-94.8	2.15	20	
Phenol	41.6	10	0.57	ug/L	100		41.6	39.6-71	3.47	20	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1503 - EPA 3510C (Sep Funnel)											
LCS Dup (B9I1503-BSD1)					Prepared: 09/15/09		Analyzed: 09/16/09				
Surrogate: 2,4,6-Tribromophenol	*90.1*			*ug/L*	*100*		*90.1*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*69.6*			*ug/L*	*100*		*69.6*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*47.8*			*ug/L*	*100*		*47.8*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*82.3*			*ug/L*	*100*		*82.3*	*47.4-97.8*			
Surrogate: Phenol-d6	*42.3*			*ug/L*	*100*		*42.3*	*30-91.5*			
Surrogate: Terphenyl-d14	*85.4*			*ug/L*	*100*		*85.4*	*30-108*			
Matrix Spike (B9I1503-MS1)		**Source: 0904005-01**			Prepared: 09/15/09		Analyzed: 09/16/09				
1,2,4-Trichlorobenzene	69.3	10	0.19	ug/L	101	<10	69.0	43.8-87.4			
1,4-Dichlorobenzene	61.4	10	0.22	ug/L	101	<10	61.1	43.7-78.7			
2,4-Dinitrotoluene	89.5	10	0.33	ug/L	101	<10	89.1	52.8-100			
2-Chlorophenol	60.7	10	0.45	ug/L	101	<10	60.4	30.1-95			
4-Chloro-3-methylphenol	73.8	10	0.55	ug/L	101	<10	73.5	44.8-98.7			
4-Nitrophenol	60.1	10	1.2	ug/L	101	<10	59.8	32.5-99.6			
Anthracene	83.9	10	0.37	ug/L	101	<10	83.5	44.8-97.6			
Benzo (a) anthracene	88.6	10	0.37	ug/L	101	<10	88.2	30-115			
Benzo (a) pyrene	82.5	10	0.29	ug/L	101	<10	82.1	30-110			
Chrysene	87.3	10	0.27	ug/L	101	<10	86.9	30-115			
Fluoranthene	82.6	10	0.39	ug/L	101	<10	82.1	37.4-103			
Fluorene	80.7	10	0.40	ug/L	101	<10	80.3	49.6-92.1			
N-Nitrosodi-n-propylamine	83.2	10	0.21	ug/L	101	<10	82.8	44.9-100			
Pentachlorophenol	86.5	10	0.59	ug/L	101	<10	86.0	31.2-123			
Phenanthrene	84.8	10	0.39	ug/L	101	<10	84.4	47-99.1			
Phenol	42.5	10	0.57	ug/L	101	<10	42.3	30-79.5			
Surrogate: 2,4,6-Tribromophenol	*85.1*			*ug/L*	*101*		*84.6*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*72.9*			*ug/L*	*101*		*72.5*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*47.5*			*ug/L*	*101*		*47.2*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*80.6*			*ug/L*	*101*		*80.2*	*47.4-97.8*			
Surrogate: Phenol-d6	*43.1*			*ug/L*	*101*		*42.8*	*30-91.5*			
Surrogate: Terphenyl-d14	*74.1*			*ug/L*	*101*		*73.8*	*30-108*			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1804 - EPA 3545 ASE Extraction											
Blank (B9I1804-BLK1)					Prepared & Analyzed: 09/18/09						
1,2,4-Trichlorobenzene	< 0.027	0.33	0.027	mg/kg wet							
1,2-Dichlorobenzene	< 0.025	0.33	0.025	mg/kg wet							
1,2-Diphenylhydrazine as Azobenzene	< 0.020	0.33	0.020	mg/kg wet							
1,3-Dichlorobenzene	< 0.023	0.33	0.023	mg/kg wet							
1,4-Dichlorobenzene	< 0.024	0.33	0.024	mg/kg wet							
2,3,4,6-Tetrachlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2,4,5-Trichlorophenol	< 0.024	0.67	0.024	mg/kg wet							
2,4,6-Trichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dimethylphenol	< 0.090	0.67	0.090	mg/kg wet							
2,4-Dinitrophenol	< 0.058	0.67	0.058	mg/kg wet							
2,4-Dinitrotoluene	< 0.021	0.33	0.021	mg/kg wet							
2,6-Dichlorophenol	< 0.043	0.67	0.043	mg/kg wet							
2,6-Dinitrotoluene	< 0.019	0.33	0.019	mg/kg wet							
2-Chloronaphthalene	< 0.019	0.33	0.019	mg/kg wet							
2-Chlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2-Methylnaphthalene	< 0.028	0.33	0.028	mg/kg wet							
2-Methylphenol	< 0.035	0.67	0.035	mg/kg wet							
2-Nitroaniline	< 0.020	0.33	0.020	mg/kg wet							
2-Nitrophenol	< 0.036	0.67	0.036	mg/kg wet							
3,3´-Dichlorobenzidine	< 0.39	1.6	0.39	mg/kg wet							
3-Nitroaniline	< 0.033	0.33	0.033	mg/kg wet							
4,6-Dinitro-2-methylphenol	< 0.074	0.67	0.074	mg/kg wet							
4-Bromophenyl phenyl ether	< 0.017	0.33	0.017	mg/kg wet							
4-Chloro-3-methylphenol	< 0.040	0.67	0.040	mg/kg wet							
4-Chloroaniline	< 0.11	0.67	0.11	mg/kg wet							
4-Chlorophenyl phenyl ether	< 0.023	0.33	0.023	mg/kg wet							
4-Methylphenol	< 0.027	0.67	0.027	mg/kg wet							
4-Nitroaniline	< 0.023	0.33	0.023	mg/kg wet							
4-Nitrophenol	< 0.099	0.67	0.099	mg/kg wet							
Acenaphthene	< 0.028	0.33	0.028	mg/kg wet							
Acenaphthylene	< 0.023	0.33	0.023	mg/kg wet							
Aniline	< 0.090	0.67	0.090	mg/kg wet							
Anthracene	< 0.025	0.33	0.025	mg/kg wet							
Benzidine	< 0.72	2.5	0.72	mg/kg wet							
Benzo (a) anthracene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (a) pyrene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (b) fluoranthene	< 0.034	0.33	0.034	mg/kg wet							
Benzo (g,h,i) perylene	< 0.030	0.33	0.030	mg/kg wet							

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1804 - EPA 3545 ASE Extraction											
Blank (B9I1804-BLK1)					Prepared & Analyzed: 09/18/09						
Benzo (k) fluoranthene	< 0.031	0.33	0.031	mg/kg wet							
Benzoic acid	< 0.058	0.33	0.058	mg/kg wet							
Benzyl alcohol	< 0.12	0.67	0.12	mg/kg wet							
Bis(2-chloroethoxy)methane	< 0.021	0.33	0.021	mg/kg wet							
Bis(2-chloroethyl)ether	< 0.024	0.33	0.024	mg/kg wet							
Bis(2-chloroisopropyl)ether	< 0.022	0.33	0.022	mg/kg wet							
Bis(2-ethylhexyl)phthalate	< 0.020	0.33	0.020	mg/kg wet							
Butyl benzyl phthalate	< 0.021	0.33	0.021	mg/kg wet							
Carbazole	< 0.022	0.33	0.022	mg/kg wet							
Chrysene	< 0.033	0.33	0.033	mg/kg wet							
Dibenz (a,h) anthracene	< 0.034	0.33	0.034	mg/kg wet							
Dibenzofuran	< 0.019	0.33	0.019	mg/kg wet							
Diethyl phthalate	< 0.015	0.33	0.015	mg/kg wet							
Dimethyl phthalate	< 0.018	0.33	0.018	mg/kg wet							
Di-n-butyl phthalate	< 0.037	0.33	0.037	mg/kg wet							
Di-n-octyl phthalate	< 0.025	0.33	0.025	mg/kg wet							
Fluoranthene	< 0.024	0.33	0.024	mg/kg wet							
Fluorene	< 0.018	0.33	0.018	mg/kg wet							
Hexachlorobenzene	< 0.016	0.33	0.016	mg/kg wet							
Hexachlorobutadiene	< 0.033	0.33	0.033	mg/kg wet							
Hexachlorocyclopentadiene	< 0.041	0.33	0.041	mg/kg wet							
Hexachloroethane	< 0.028	0.33	0.028	mg/kg wet							
Indeno (1,2,3-cd) pyrene	< 0.032	0.33	0.032	mg/kg wet							
Isophorone	< 0.017	0.33	0.017	mg/kg wet							
Naphthalene	< 0.029	0.33	0.029	mg/kg wet							
Nitrobenzene	< 0.030	0.33	0.030	mg/kg wet							
N-Nitrosodimethylamine	< 0.032	0.33	0.032	mg/kg wet							
N-Nitrosodi-n-propylamine	< 0.025	0.33	0.025	mg/kg wet							
N-Nitrosodiphenylamine	< 0.018	0.33	0.018	mg/kg wet							
Pentachlorophenol	< 0.096	0.67	0.096	mg/kg wet							
Phenanthrene	< 0.019	0.33	0.019	mg/kg wet							
Phenol	< 0.057	0.67	0.057	mg/kg wet							
Pyrene	< 0.023	0.33	0.023	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	*4.42*			*mg/kg wet*	*6.67*		*66.3*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*3.70*			*mg/kg wet*	*6.67*		*55.5*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*3.91*			*mg/kg wet*	*6.67*		*58.7*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.00*			*mg/kg wet*	*6.67*		*60.0*	*49.1-86.9*			
Surrogate: Phenol-d6	*4.20*			*mg/kg wet*	*6.67*		*63.0*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*4.12*			*mg/kg wet*	*6.67*		*61.9*	*43.6-112*			

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/25/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1804 - EPA 3545 ASE Extraction											
LCS (B9I1804-BS1)					Prepared & Analyzed: 09/18/09						
1,2,4-Trichlorobenzene	4.11	0.33	0.027	mg/kg wet	6.67		61.6	50.7-82.1			
1,4-Dichlorobenzene	3.59	0.33	0.024	mg/kg wet	6.67		53.8	44-77			
2,4-Dinitrotoluene	4.56	0.33	0.021	mg/kg wet	6.67		68.5	56.7-81.7			
2-Chlorophenol	4.19	0.67	0.038	mg/kg wet	6.67		62.8	52.3-88.2			
4-Chloro-3-methylphenol	4.49	0.67	0.040	mg/kg wet	6.67		67.3	53.4-87			
4-Nitrophenol	4.84	0.67	0.099	mg/kg wet	6.67		72.6	55.7-87.1			
Anthracene	4.79	0.33	0.025	mg/kg wet	6.67		71.9	65.3-92			
Benzo (a) anthracene	5.07	0.33	0.027	mg/kg wet	6.67		76.1	69-95.3			
Benzo (a) pyrene	5.03	0.33	0.027	mg/kg wet	6.67		75.5	68.5-98.2			
Chrysene	4.96	0.33	0.033	mg/kg wet	6.67		74.4	68.6-94.2			
Fluoranthene	4.76	0.33	0.024	mg/kg wet	6.67		71.4	64.3-94.6			
Fluorene	4.55	0.33	0.018	mg/kg wet	6.67		68.2	61.9-89.4			
N-Nitrosodi-n-propylamine	4.54	0.33	0.025	mg/kg wet	6.67		68.1	55.5-91.1			
Pentachlorophenol	4.02	0.67	0.096	mg/kg wet	6.67		60.3	54.7-74.6			
Phenanthrene	4.66	0.33	0.019	mg/kg wet	6.67		70.0	64.3-90.9			
Phenol	4.17	0.67	0.057	mg/kg wet	6.67		62.5	49.7-85.4			
Surrogate: 2,4,6-Tribromophenol	*5.08*			*mg/kg wet*	*6.67*		*76.3*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*4.05*			*mg/kg wet*	*6.67*		*60.8*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*4.32*			*mg/kg wet*	*6.67*		*64.8*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.36*			*mg/kg wet*	*6.67*		*65.4*	*49.1-86.9*			
Surrogate: Phenol-d6	*4.69*			*mg/kg wet*	*6.67*		*70.3*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*4.55*			*mg/kg wet*	*6.67*		*68.2*	*43.6-112*			
Matrix Spike (B9I1804-MS1)		**Source: 0904029-09**			Prepared & Analyzed: 09/18/09						
1,2,4-Trichlorobenzene	5.16	0.40	0.033	mg/kg dry	8.12	<0.40	63.6	51-77.5			
1,4-Dichlorobenzene	4.43	0.40	0.029	mg/kg dry	8.12	<0.40	54.6	41.7-73.4			
2,4-Dinitrotoluene	5.55	0.40	0.025	mg/kg dry	8.12	<0.40	68.4	50-84.8			
2-Chlorophenol	5.22	0.81	0.046	mg/kg dry	8.12	<0.81	64.3	47.8-90.8			
4-Chloro-3-methylphenol	5.53	0.81	0.048	mg/kg dry	8.12	<0.81	68.1	48.4-95.1			
4-Nitrophenol	6.14	0.81	0.12	mg/kg dry	8.12	<0.81	75.7	44-105			
Anthracene	5.94	0.40	0.030	mg/kg dry	8.12	<0.40	73.2	60.2-97.3			
Benzo (a) anthracene	6.17	0.40	0.033	mg/kg dry	8.12	<0.40	76.0	59.8-102			
Benzo (a) pyrene	6.05	0.40	0.033	mg/kg dry	8.12	<0.40	74.5	57.2-105			
Chrysene	6.08	0.40	0.040	mg/kg dry	8.12	<0.40	74.8	59.2-102			
Fluoranthene	5.72	0.40	0.029	mg/kg dry	8.12	<0.40	70.5	50.4-108			
Fluorene	5.67	0.40	0.022	mg/kg dry	8.12	<0.40	69.8	57.8-94.4			
N-Nitrosodi-n-propylamine	5.61	0.40	0.030	mg/kg dry	8.12	<0.40	69.1	46.2-96.2			
Pentachlorophenol	5.49	0.81	0.12	mg/kg dry	8.12	<0.81	67.6	53.6-80.4			
Phenanthrene	5.82	0.40	0.023	mg/kg dry	8.12	<0.40	71.7	58.4-97.5			
Phenol	5.20	0.81	0.069	mg/kg dry	8.12	<0.81	64.1	44-88.5			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1804 - EPA 3545 ASE Extraction											
Matrix Spike (B9I1804-MS1)		**Source: 0904029-09**			Prepared & Analyzed: 09/18/09						
Surrogate: 2,4,6-Tribromophenol	*6.39*			*mg/kg dry*	*8.12*		*78.7*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*5.12*			*mg/kg dry*	*8.12*		*63.1*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*5.41*			*mg/kg dry*	*8.12*		*66.7*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*5.54*			*mg/kg dry*	*8.12*		*68.2*	*49.1-86.9*			
Surrogate: Phenol-d6	*5.89*			*mg/kg dry*	*8.12*		*72.5*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.64*			*mg/kg dry*	*8.12*		*69.5*	*43.6-112*			
Matrix Spike Dup (B9I1804-MSD1)		**Source: 0904029-09**			Prepared & Analyzed: 09/18/09						
1,2,4-Trichlorobenzene	5.25	0.40	0.033	mg/kg dry	8.12	<0.40	64.6	51-77.5	1.59	15.7	
1,4-Dichlorobenzene	4.53	0.40	0.029	mg/kg dry	8.12	<0.40	55.9	41.7-73.4	2.26	14.7	
2,4-Dinitrotoluene	5.39	0.40	0.025	mg/kg dry	8.12	<0.40	66.4	50-84.8	2.92	20.5	
2-Chlorophenol	5.29	0.81	0.046	mg/kg dry	8.12	<0.81	65.2	47.8-90.8	1.36	19.8	
4-Chloro-3-methylphenol	5.50	0.81	0.048	mg/kg dry	8.12	<0.81	67.8	48.4-95.1	0.438	18.7	
4-Nitrophenol	5.90	0.81	0.12	mg/kg dry	8.12	<0.81	72.7	44-105	3.97	30.9	
Anthracene	5.87	0.40	0.030	mg/kg dry	8.12	<0.40	72.3	60.2-97.3	1.22	15.1	
Benzo (a) anthracene	5.96	0.40	0.033	mg/kg dry	8.12	<0.40	73.4	59.8-102	3.48	19.6	
Benzo (a) pyrene	5.93	0.40	0.033	mg/kg dry	8.12	<0.40	73.1	57.2-105	1.97	19.4	
Chrysene	5.94	0.40	0.040	mg/kg dry	8.12	<0.40	73.1	59.2-102	2.34	19.6	
Fluoranthene	5.65	0.40	0.029	mg/kg dry	8.12	<0.40	69.5	50.4-108	1.31	21	
Fluorene	5.62	0.40	0.022	mg/kg dry	8.12	<0.40	69.2	57.8-94.4	0.775	15.8	
N-Nitrosodi-n-propylamine	5.71	0.40	0.030	mg/kg dry	8.12	<0.40	70.3	46.2-96.2	1.70	17.1	
Pentachlorophenol	5.31	0.81	0.12	mg/kg dry	8.12	<0.81	65.4	53.6-80.4	3.39	22.4	
Phenanthrene	5.78	0.40	0.023	mg/kg dry	8.12	<0.40	71.2	58.4-97.5	0.804	14.3	
Phenol	5.32	0.81	0.069	mg/kg dry	8.12	<0.81	65.6	44-88.5	2.30	21.5	
Surrogate: 2,4,6-Tribromophenol	*6.22*			*mg/kg dry*	*8.12*		*76.6*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*5.21*			*mg/kg dry*	*8.12*		*64.2*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*5.42*			*mg/kg dry*	*8.12*		*66.8*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*5.59*			*mg/kg dry*	*8.12*		*68.8*	*49.1-86.9*			
Surrogate: Phenol-d6	*5.96*			*mg/kg dry*	*8.12*		*73.4*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.48*			*mg/kg dry*	*8.12*		*67.6*	*43.6-112*			

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Fax: 651-642-1239

Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904029
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/25/09

Notes and Definitions

S-BN	Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.
QR-04	The RPD value for the MS/MSD was outside of QC acceptance limits. Data was accepted based on LCS and/or LCSD recovery and/or RPD values.
M2	Matrix spike recovery was low, the associated blank spike recovery was acceptable.
J	Parameter was present between the MDL and RL and should be considered an estimated value
<	Less than value listed
dry	Sample results reported on a dry weight basis
NA	Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL	Method Detection Limit
RL	Reporting Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
MS	Matrix Spike = Laboratory Fortified Matrix (LFM)

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Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

COC 1 of 2

Project Manager: JME/JSA
Project QC Contact: KJN/AAN
Sampled by: KCB/KJN
Laboratory: Legend

Project Number: 23/19-0805.07 SIRI 300
Project Name: UMA SSI/RI
Sample Origination State: MN (use two letter postal state abbreviation)
COC Number: № 29128

	Location	Start Depth	Stop Depth	Depth Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: OC	VOCs (HCl) #1	SVOCs (unpreserved) #2	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	General (unpreserved) #3	Diesel Range Organics (HCl)	Nutrients (H_2SO_4) #4	VOCs (tared MeOH) #1	GRO, BTEX (tared MeOH) #1	DRO (tared unpreserved)	Metals (unpreserved)	SVOCs (unpreserved) #2	% Solids (plastic vial, unpres.)	Total Number Of Containers	
01	1. SOC5-SS48-0.5'	0.5	0.5	ft	09/08/2009	08:30		X	X													X	X		2	Analyze PCBs
02	2. SOC5-SS49-0.5'	0.5	0.5		09/08/2009	0845		X	X													X	X		2	↓
03	3. SOC5-TT7-4'	4	4		↓	1700		X	X													X	X		3	Analyze PPL metals + SVOCs
04	4. SOC5-TT9-13'	13	13		↓	1400		X	X													X	X		3	↓
05	5. SOC5-TT13-3'	3	3		09/10/2009	1200		X	X													X	X		3	↓
06	6. SOC5-TT18-4'	4	4		09/09/2009	1600		X	X													X	X		3	↓
07	7. SOC5-TT25-5'	5	5		09/09/2009	1300		X	X													X	X		3	↓
08	8. SOC4-TT9-6'	6	6		09/10/2009	1430		X	X													X	X		3	↓
09	9. SOC5-SS8-0.5'	0.5	0.5		↓	1300		X	X													X	X		3	MS/MSD requested
10	10. SOC5-SS10-0.5'	0.5	0.5		↓	1500		X	X													X	X		3	↓

Common Parameter/Container - Preservation Key

- #1 - Volatile Organics = BTEX, GRO, TPH, 8260 Full List
- #2 - Semivolatile Organics = PAHs, PCP, Dioxins, 8270 Full List, Herbicide/Pesticide/PCBs
- #3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
- #4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
[signature]	(Y) N	9/11/09	1215			
Relinquished By:	On Ice? Y N	Date	Time	Received by: [signature]	Date 9/11/09	Time 14:55

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other: _____ Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

RR 32°c custody seal

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v 104021

Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

COC 2 of 2

Project Number: 2319-0805.07 SIR1 300

Project Name: UMA SSI/RI

Sample Origination State MN (use two letter postal state abbreviation)

COC Number: № 29830

Project Manager: JSA/JME

Project QC Contact: KJN/AAN

Sampled by: KCB/KJN

Laboratory: Legend

Number of Containers/Preservative

	Location	Start Depth	Stop Depth	Depth Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Water: VOCs (HCl) #1	Water: SVOCs (unpreserved) #2	Water: Dissolved Metals (HNO_3)	Water: Total Metals (HNO_3)	Water: General (unpreserved) #3	Water: Diesel Range Organics (HCl)	Water: Nutrients (H_2SO_4) #4	Soil: VOCs (tared MeOH) #1	Soil: GRO, BTEX (tared MeOH) #1	Soil: DRO (tared unpreserved)	Soil: Metals (unpreserved)	Soil: SVOCs (unpreserved) #2	Soil: % Solids (plastic vial, unpres.)	Total Number Of Containers	
11	1. M-2	—	—	—	09/10/2009	—		X	X													X	X	X	3	Analyze PPL Metals + SVOCs
12	2. SOC5-M1	—	—	—	↓	—		X	X													X	X	X	3	↓
13	3. FB-1	—	—	—		1330	X				X		X												1	Analyze SVOCs
14	4. FB-2	—	—	—	↓	1730	X				X		X	X											2	Analyze SVOCs + PPL Metals
	5.																									
	6.																									
	7.																									
	8.																									
	9.																									
	10.																									

Common Parameter/Container - Preservation Key

#1 - Volatile Organics = BTEX, GRO, TPH, 8260 Full List
#2 - Semivolatile Organics = PAHs, PCP, Dioxins, 8270 Full List, Herbicide/Pesticide/PCBs
#3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
#4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
[signature]	Y N	9/11/09	1215			
Relinquished By:	On Ice? Y N	Date	Time	Received by: [signature]	Date 9/11/09	Time 14:55

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other: _____

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

RR 3.2

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [1]	Minnesota Tier SLV [4]	Minnesota SRV [5]	Minnesota Tier II Industrial SRV [6]
Metals										
Antimony	7440-36-0	Soil/Solid	6010B	0.0055	0.50	mg/kg	--	2.7	12	100
Arsenic	7440-38-2	Soil/Solid	6010B	0.10	0.50	mg/kg	--	15.1	9	20
Beryllium	7440-41-7	Soil/Solid	6010B	0.011	0.25	mg/kg	--	1.4	55	230
Cadmium	7440-43-9	Soil/Solid	6010B	0.025	0.25	mg/kg	--	4.4	25	200
Chromium	7440-47-3	Soil/Solid	6010B	0.012	0.50	mg/kg	--	1000000 (8)	44000 (8)	100000 (8)
Copper	7440-50-8	Soil/Solid	6010B	0.070	1.0	mg/kg	--	400	100	9000
Lead	7439-92-1	Soil/Solid	6010B	0.034	1.0	mg/kg	--	525	300	700
Nickel	7440-02-0	Soil/Solid	6010B	0.014	0.25	mg/kg	--	88	560	2500
Selenium	7782-49-2	Soil/Solid	6010B	0.11	1.0	mg/kg	--	1.5	160	1300
Silver	7440-22-4	Soil/Solid	6010B	0.0090	0.25	mg/kg	--	3.9	160	1300
Thallium	7440-28-0	Soil/Solid	6010B	0.13	2.0	mg/kg	--	--	3	21
Zinc	7440-66-6	Soil/Solid	6010B	0.22	1.0	mg/kg	--	1500	8700	75000
Metals										
Antimony	7440-36-0	Water/Liquid	6020	0.046	0.500	ug/L	6	--	--	--
Arsenic	7440-38-2	Water/Liquid	6010B	2	10.000	ug/L	--	--	--	--
Beryllium	7440-41-7	Water/Liquid	6020	0.027	0.5000	ug/L	0.08	--	--	--
Cadmium	7440-43-9	Water/Liquid	6010B	0.099	1.0000	ug/L	4	--	--	--
Chromium	7440-47-3	Water/Liquid	6010B	0.24	10.000	ug/L	100 (5)	--	--	--
Copper	7440-50-8	Water/Liquid	6010B	1.4	20.000	ug/L	--	--	--	--
Lead	7439-92-1	Water/Liquid	6010B	0.68	3.0000	ug/L	--	--	--	--
Nickel	7440-02-0	Water/Liquid	6010B	0.28	5.0000	ug/L	100	--	--	--
Selenium	7782-49-2	Water/Liquid	6010B	2.2	20.000	ug/L	30	--	--	--
Silver	7440-22-4	Water/Liquid	6010B	0.18	5.0000	ug/L	30	--	--	--
Thallium	7440-28-0	Water/Liquid	6020	0.0081	0.500	ug/L	0.5	--	--	--
Zinc	7440-66-6	Water/Liquid	6010B	4.4	20.000	ug/L	2000	--	--	--
Mercury										
Mercury	7439-97-6	Soil/Solid	7471A	0.0031	0.10	mg/kg	--	1.5 C	0.5	1.5
Mercury	7439-97-6	Water/Liquid	7470A	0.000031	0.00020	mg/L	--	--	--	--
Nitrate-Nitrite Nitrogen as N (Braun)										
N+N Nitrogen as N	NA	Water/Liquid	SM4500-NO3-F	0.007	0.02	mg/L	10 (3)	--	--	--
Total Kjeldahl Nitrogen (Braun)										
TKN as N	NA	Water/Liquid	SM4500-NH3-C	0.17	0.5	mg/L	--	--	--	--
Perchlorate (TA)										
Perchlorate	NA	Water/Liquid	314	0.36	4	ug/L	--	--	--	--
Nitrocellulose (TA)										
Nitrocellulose	NA	Soil/Solid	353.2Mod	0.78	0.5	mg/kg	--	--	--	--
Nitrocellulose (TA)										
Nitrocellulose	NA	Water/Liquid	353.2Mod	0.124	0.5	mg/L	--	--	--	--
Organochlorine Pesticides										
4,4'-DDD	72-54-8	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	56	125
4,4'-DDE	72-55-9	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	40	80
4,4'-DDT	50-29-3	Soil/Solid	8081A	0.0020	0.040	mg/kg	--	--	15	88
a-Chlordane	5103-71-9	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	--	--
Aldrin	309-00-2	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	1	2
alpha-BHC	319-84-6	Soil/Solid	8081A	0.0011	0.040	mg/kg	--	--	2	3.5
beta-BHC	319-85-7	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	7	15
delta-BHC	319-86-8	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	--	--
Dieldrin	60-57-1	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	0.8	2
Endosulfan I	959-98-8	Soil/Solid	8081A	0.0013	0.040	mg/kg	--	--	--	--
Endosulfan II	891-86-1	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
Endosulfan sulfate	1031-07-8	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
Endrin	72-20-8	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	8	56
Endrin aldehyde	7421-93-4	Soil/Solid	8081A	0.0041	0.040	mg/kg	--	--	--	--
Endrin ketone	53494-70-5	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
gamma-BHC (Lindane)	58-89-9	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	9	15
gamma-Chlordane	5566-34-7	Soil/Solid	8081A	0.0017	0.040	mg/kg	--	--	--	--
Heptachlor	76-44-8	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	2	3.5
Heptachlor epoxide	1024-57-3	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	0.4	3
Methoxychlor	72-43-5	Soil/Solid	8081A	0.0019	0.040	mg/kg	--	--	11	50
Toxaphene	8001-35-2	Soil/Solid	8081A	0.015	0.080	mg/kg	--	--	13	28
Organochlorine Pesticides										
4,4'-DDD	72-54-8	Water/Liquid	8081A	0.026	0.40	ug/L	1	--	--	--
4,4'-DDE	72-55-9	Water/Liquid	8081A	0.037	0.40	ug/L	1	--	--	--
4,4'-DDT	50-29-3	Water/Liquid	8081A	0.031	0.40	ug/L	1	--	--	--
a-Chlordane	5103-71-9	Water/Liquid	8081A	0.030	0.40	ug/L	--	--	--	--
Aldrin	309-00-2	Water/Liquid	8081A	0.036	0.40	ug/L	--	--	--	--
alpha-BHC	319-84-6	Water/Liquid	8081A	0.028	0.40	ug/L	--	--	--	--
beta-BHC	319-85-7	Water/Liquid	8081A	0.026	0.40	ug/L	--	--	--	--
delta-BHC	319-86-8	Water/Liquid	8081A	0.023	0.40	ug/L	--	--	--	--
Dieldrin	60-57-1	Water/Liquid	8081A	0.031	0.40	ug/L	0.006 (4)	--	--	--
Endosulfan I	959-98-8	Water/Liquid	8081A	0.032	0.40	ug/L	--	--	--	--
Endosulfan II	891-86-1	Water/Liquid	8081A	0.035	0.40	ug/L	--	--	--	--

P:\Mpls\23 MN\19\2319B05 UMore park environmental\WorkFiles\Phase II Investigation WO#1 and #6\Phase II Work Plan\SSI_RI Work Plan\SAP\V2.0\Part 2-QAPP\Tables\Table 1

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Units	MDH Health Risk Limits [1]	Minnesota Tier SLV [4]	Minnesota SRV [5]	Minnesota Tier II Industrial SRV [6]
Endosulfan sulfate	1031-07-8	Water/Liquid	8081A	0.034	0.40	ug/L	--	--	--	--
Endrin	72-20-8	Water/Liquid	8081A	0.029	0.40	ug/L	--	--	--	--
Endrin aldehyde	7421-93-4	Water/Liquid	8081A	0.044	0.40	ug/L	--	--	--	--
Endrin ketone	53494-70-5	Water/Liquid	8081A	0.031	0.40	ug/L	--	--	--	--
gamma-BHC (Lindane)	58-89-9	Water/Liquid	8081A	0.024	0.40	ug/L	--	--	--	--
gamma-Chlordane	5566-34-7	Water/Liquid	8081A	0.030	0.40	ug/L	--	--	--	--
Heptachlor	76-44-8	Water/Liquid	8081A	0.028	0.40	ug/L	0.08	--	--	--
Heptachlor epoxide	1024-57-3	Water/Liquid	8081A	0.030	0.40	ug/L	0.04	--	--	--
Methoxychlor	72-43-5	Water/Liquid	8081A	0.032	0.40	ug/L	--	--	--	--
Toxaphene	8001-35-2	Water/Liquid	8081A	0.069	1.00	ug/L	0.3	--	--	--
MDA List 1 Pesticides (Braun)										
EPTC	759-94-4	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Propachlor	1918-16-7	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Ethalfluralin	55283-68-6	Soil/Solid	8270C	0.014	0.04	mg/kg	--	--	--	--
Deisopropylatrazine	1007-28-9	Soil/Solid	8270C	0.0080	0.04	mg/kg	--	--	--	--
Trifluralin	1582-09-8	Soil/Solid	8270C	0.014	0.04	mg/kg	--	--	--	--
Desethylatrazine	6190-65-4	Soil/Solid	8270C	0.011	0.04	mg/kg	--	--	--	--
Phorate	298-02-2	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Prometon	1610-18-0	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Simazine	122-34-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Atrazine	1912-24-9	Soil/Solid	8270C	0.0100	0.04	mg/kg	--	--	--	--
Propazine	139-40-2	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Terbufos	13071-79-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	0.6	3.5
Fonofos	944-22-9	Soil/Solid	8270C	0.0040	0.04	mg/kg	--	--	--	--
Triallate	2303-17-5	Soil/Solid	8270C	0.0050	0.04	mg/kg	--	--	--	--
Metribuzin	21087-64-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Dimethenamid	87674-68-8	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Acetochlor	34256-82-1	Soil/Solid	8270C	0.010	0.04	mg/kg	--	--	--	--
Alachlor	15972-60-8	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Cyanazine	21725-46-2	Soil/Solid	8270C	0.0080	0.04	mg/kg	--	--	--	--
Metolachlor	51218-45-2	Soil/Solid	8270C	0.0030	0.04	mg/kg	--	--	435	3300
Chlorpyrifos	2921-88-2	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Pendimethalin	40487-42-1	Soil/Solid	8270C	0.016	0.04	mg/kg	--	--	--	--
MDA List 1 Pesticides (Braun)										
EPTC	759-94-4	Water/Liquid	8270C	0.22	0.50	ug/L	200	--	--	--
Propachlor	1918-16-7	Water/Liquid	8270C	0.14	0.50	ug/L	--	--	--	--
Ethalfluralin	55283-68-6	Water/Liquid	8270C	0.47	0.50	ug/L	300 (1)	--	--	--
Deisopropylatrazine	1007-28-9	Water/Liquid	8270C	0.26	0.50	ug/L	--	--	--	--
Trifluralin	1582-09-8	Water/Liquid	8270C	0.21	0.50	ug/L	5 (1)	--	--	--
Desethylatrazine	6190-65-4	Water/Liquid	8270C	0.29	0.50	ug/L	--	--	--	--
Phorate	298-02-2	Water/Liquid	8270C	0.58	1.00	ug/L	1 (1)	--	--	--
Prometon	1610-18-0	Water/Liquid	8270C	0.29	0.50	ug/L	100	--	--	--
Simazine	122-34-9	Water/Liquid	8270C	0.32	0.50	ug/L	4 (3)	--	--	--
Atrazine	1912-24-9	Water/Liquid	8270C	0.24	0.50	ug/L	3 (3)	--	--	--
Propazine	139-40-2	Water/Liquid	8270C	0.21	0.50	ug/L	10 (1)	--	--	--
Terbufos	13071-79-9	Water/Liquid	8270C	0.54	1.00	ug/L	0.2 (1)	--	--	--
Fonofos	944-22-9	Water/Liquid	8270C	0.30	0.50	ug/L	10 (1)	--	--	--
Triallate	2303-17-5	Water/Liquid	8270C	0.34	0.50	ug/L	9 (1)	--	--	--
Metribuzin	21087-64-9	Water/Liquid	8270C	0.35	0.50	ug/L	200	--	--	--
Dimethenamid	87674-68-8	Water/Liquid	8270C	0.24	0.50	ug/L	40 (1)	--	--	--
Acetochlor	34256-82-1	Water/Liquid	8270C	0.25	0.50	ug/L	9 (4)	--	--	--
Alachlor	15972-60-8	Water/Liquid	8270C	0.19	0.50	ug/L	5 (4)	--	--	--
Cyanazine	21725-46-2	Water/Liquid	8270C	0.48	0.50	ug/L	1	--	--	--
Metolachlor	51218-45-2	Water/Liquid	8270C	0.28	0.50	ug/L	300 (4)	--	--	--
Chlorpyrifos	2921-88-2	Water/Liquid	8270C	0.34	0.50	ug/L	20 (1)	--	--	--
Pendimethalin	40487-42-1	Water/Liquid	8270C	0.25	0.50	ug/L	--	--	--	--
MDA List 2 Pesticides (Braun)										
Dicamba	1918-00-9	Soil/Solid	8270C	0.008	0.50	mg/kg	--	--	--	--
MCPA	94-74-6	Soil/Solid	8270C	0.014	0.50	mg/kg	--	--	16	110
2,4-D	94-75-7	Soil/Solid	8270C	0.012	0.50	mg/kg	--	--	285	2200
Trichlopyr	55336-06-3	Soil/Solid	8270C	0.008	0.50	mg/kg	--	--	--	--
Pentachlorophenol	87-86-5	Soil/Solid	8270C	0.007	0.50	mg/kg	--	--	80	120
2,4,5-T.P.	93-72-1	Soil/Solid	8270C	0.007	0.50	mg/kg	--	--	--	--
2,4,5-T	93-76-5	Soil/Solid	8270C	0.009	0.50	mg/kg	--	--	290	2150
Dinoseb	88-85-7	Soil/Solid	8270C	0.005	0.50	mg/kg	--	--	--	--
2,4-D.B.	94-82-6	Soil/Solid	8270C	0.011	0.50	mg/kg	--	--	226	1750
Bentazone	25057-89-0	Soil/Solid	8270C	0.009	0.50	mg/kg	--	--	--	--
Picloram	1918-02-1	Soil/Solid	8270C	0.011	0.50	mg/kg	--	--	2000	15000
MDA List 2 Pesticides (Braun)										
Dicamba	1918-00-9	Water/Liquid	8270C	0.38	0.50	ug/L	200	--	--	--

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [1]	Minnesota Tier SLV [2]	Minnesota SRV [3]	Minnesota Tier II Industrial SRV [4]
MCPA	94-74-6	Water/Liquid	8270C	0.29	0.30	ug/L	--	--	--	--
2,4-D	94-75-7	Water/Liquid	8270C	0.26	0.50	ug/L	70	--	--	--
Trichlopyr	55336-06-3	Water/Liquid	8270C	0.41	0.50	ug/L	300 (1)	--	--	--
Pentachlorophenol	87-86-5	Water/Liquid	8270C	0.39	0.50	ug/L	1 (3)	--	--	--
2,4,5-T.P.	93-72-1	Water/Liquid	8270C	0.28	0.50	ug/L	50 (3)	--	--	--
2,4,5-T	93-76-5	Water/Liquid	8270C	0.31	0.50	ug/L	--	--	--	--
Dinoseb	88-85-7	Water/Liquid	8270C	0.34	0.50	ug/L	7 (1)	--	--	--
2,4-D.B.	94-82-6	Water/Liquid	8270C	0.15	0.50	ug/L	60 (1)	--	--	--
Bentazone	25057-89-0	Water/Liquid	8270C	0.22	0.50	ug/L	200 (1)	--	--	--
Picloram	1918-02-1	Water/Liquid	8270C	0.25	0.50	ug/L	500	--	--	--
PCBs										
Aroclor 1016	12674-11-2	Soil/Solid	8082	0.017	0.20	mg/kg	--	--	--	--
Aroclor 1221	11104-28-2	Soil/Solid	8082	0.039	0.20	mg/kg	--	--	--	--
Aroclor 1232	11141-16-5	Soil/Solid	8082	0.010	0.20	mg/kg	--	--	--	--
Aroclor 1242	53469-21-9	Soil/Solid	8082	0.016	0.20	mg/kg	--	--	--	--
Aroclor 1248	12672-29-6	Soil/Solid	8082	0.0078	0.20	mg/kg	--	--	--	--
Aroclor 1254	11097-69-1	Soil/Solid	8082	0.0071	0.20	mg/kg	--	--	--	--
Aroclor 1260	11096-82-5	Soil/Solid	8082	0.015	0.20	mg/kg	--	--	--	--
PCBs										
Aroclor 1016	12674-11-2	Water/Liquid	8082	0.41	2.0	ug/L	--	--	--	--
Aroclor 1221	11104-28-2	Water/Liquid	8082	0.36	2.0	ug/L	--	--	--	--
Aroclor 1232	11141-16-5	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1242	53469-21-9	Water/Liquid	8082	0.58	2.0	ug/L	--	--	--	--
Aroclor 1248	12672-29-6	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1254	11097-69-1	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1260	11096-82-5	Water/Liquid	8082	0.32	2.0	ug/L	--	--	--	--
VOCs - Soil/Solid										
1,1,1,2-Tetrachloroethane	630-20-6	Soil/Solid	8260B	0.019	0.25	mg/kg	--	1.4	31	51
1,1,1-Trichloroethane	71-55-6	Soil/Solid	8260B	0.0098	0.25	mg/kg	--	3.5	140	472
1,1,2,2-Tetrachloroethane	79-34-5	Soil/Solid	8260B	0.012	0.25	mg/kg	--	0.005	3.5	6.5
1,1,2-Trichloroethane	79-00-5	Soil/Solid	8260B	0.022	0.25	mg/kg	--	0.010	9	14
1,1,2-Trichlorotrifluoroethane	76-13-1	Soil/Solid	8260B	0.052	0.25	mg/kg	--	2580	3745	5430
1,1-Dichloroethane	75-34-3	Soil/Solid	8260B	0.013	0.25	mg/kg	--	0.18	34	55
1,1-Dichloroethene	75-35-4	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.025	20	60
1,1-Dichloropropene	563-58-6	Soil/Solid	8260B	0.021	0.25	mg/kg	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	Soil/Solid	8260B	0.063	0.50	mg/kg	--	--	--	--
1,2,3-Trichloropropane	96-18-4	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.35	--	--
1,2,4-Trichlorobenzene	120-82-1	Soil/Solid	8260B	0.052	0.50	mg/kg	--	0.31	200	985
1,2,4-Trimethylbenzene	95-63-6	Soil/Solid	8260B	0.013	0.25	mg/kg	--	--	8	25
1,2-Dibromo-3-chloropropane	96-12-8	Soil/Solid	8260B	0.079	0.50	mg/kg	--	0.001	--	--
1,2-Dibromoethane (EDB)	106-93-4	Soil/Solid	8260B	0.0056	0.25	mg/kg	--	0.00001	0.3	0.5
1,2-Dichlorobenzene	95-50-1	Soil/Solid	8260B	0.0055	0.25	mg/kg	--	8.1	26	75
1,2-Dichloroethane	107-06-2	Soil/Solid	8260B	0.030	0.25	mg/kg	--	0.010	4	6
1,2-Dichloropropane	78-87-5	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.011	4	6
1,3,5-Trimethylbenzene	108-67-8	Soil/Solid	8260B	0.0077	0.25	mg/kg	--	--	3	10
1,3-Dichlorobenzene	541-73-1	Soil/Solid	8260B	0.015	0.25	mg/kg	--	4.2	26	200
1,3-Dichloropropane	142-28-9	Soil/Solid	8260B	0.017	0.25	mg/kg	--	--	--	--
1,4-Dichlorobenzene	106-46-7	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.13	30	50
2,2-Dichloropropane	594-20-7	Soil/Solid	8260B	0.034	0.50	mg/kg	--	--	--	--
2-Butanone	78-93-3	Soil/Solid	8260B	0.069	2.0	mg/kg	--	--	5500	19000
2-Chlorotoluene	95-49-8	Soil/Solid	8260B	0.015	0.25	mg/kg	--	--	436	436
4-Chlorotoluene	106-43-4	Soil/Solid	8260B	0.015	0.25	mg/kg	--	--	--	--
Acetone	67-64-1	Soil/Solid	8260B	0.16	2.0	mg/kg	--	0.7	340	1000
Allyl chloride	107-05-1	Soil/Solid	8260B	0.016	0.50	mg/kg	--	0.032	--	--
Benzene	71-43-2	Soil/Solid	8260B	0.0070	0.25	mg/kg	--	0.034	6	10
Bromobenzene	108-86-1	Soil/Solid	8260B	0.017	0.25	mg/kg	--	--	--	--
Bromochloromethane	74-97-5	Soil/Solid	8260B	0.021	0.25	mg/kg	--	0.15	--	--
Bromodichloromethane	75-27-4	Soil/Solid	8260B	0.020	0.25	mg/kg	--	0.013	10	17
Bromoform	75-25-2	Soil/Solid	8260B	0.015	0.50	mg/kg	--	0.14	370	650
Bromomethane	74-83-9	Soil/Solid	8260B	0.012	0.50	mg/kg	--	0.5	0.7	2
Carbon tetrachloride	56-23-5	Soil/Solid	8260B	0.018	0.25	mg/kg	--	0.023	0.3	0.9
Chlorobenzene	108-90-7	Soil/Solid	8260B	0.011	0.25	mg/kg	--	1.1	11	32
Chloroethane	75-00-3	Soil/Solid	8260B	0.045	0.25	mg/kg	--	--	1000	3000
Chloroform	67-66-3	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.17	2.5	4
Chloromethane	74-87-3	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.006	8	23
cis-1,2-Dichloroethene	156-59-2	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.14	8	22
cis-1,3-Dichloropropene	10061-01-5	Soil/Solid	8260B	0.0098	0.25	mg/kg	--	0.005 M	--	--
Dibromochloromethane	124-48-1	Soil/Solid	8260B	0.014	0.25	mg/kg	--	0.03	12	20
Dibromomethane	74-95-3	Soil/Solid	8260B	0.021	0.25	mg/kg	--	--	260	1860
Dichlorodifluoromethane	75-71-8	Soil/Solid	8260B	0.035	0.50	mg/kg	--	38	16	50
Dichlorofluoromethane	75-43-4	Soil/Solid	8260B	0.014	0.25	mg/kg	--	--	--	--
Ethyl ether	60-29-7	Soil/Solid	8260B	0.017	0.50	mg/kg	--	1.2	--	--
Ethylbenzene	100-41-4	Soil/Solid	8260B	0.011	0.25	mg/kg	--	4.7	200	200
Hexachlorobutadiene	87-68-3	Soil/Solid	8260B	0.11	1.0	mg/kg	--	25	6	37
Isopropylbenzene	98-82-8	Soil/Solid	8260B	0.019	0.25	mg/kg	--	18	30	87

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Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [1]	Minnesota Tier SLV [2]	Minnesota SRV [3]	Minnesota Tier II Industrial SRV [3]
m,p-Xylene	108-38-3/ 106-42-3	Soil/Solid	8260B	0.024	0.50	mg/kg	--	45 M	45 M	130 M
Methyl isobutyl ketone	108-10-1	Soil/Solid	8260B	0.031	0.50	mg/kg	--	0.42	1700	9000
Methyl tert-butyl ether	1634-04-4	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.027	--	--
Methylene chloride	75-09-2	Soil/Solid	8260B	0.043	1.0	mg/kg	--	0.068	97	158
Naphthalene	91-20-3	Soil/Solid	8260B	0.060	0.50	mg/kg	--	7.5	10	28
n-Butylbenzene	104-51-8	Soil/Solid	8260B	0.012	0.25	mg/kg	--	--	30	92
n-Propylbenzene	103-65-1	Soil/Solid	8260B	0.013	0.25	mg/kg	--	--	30	93
o-Xylene	95-47-6	Soil/Solid	8260B	0.015	0.25	mg/kg	--	45 M	45 M	130 M
p-Isopropyltoluene	99-87-6	Soil/Solid	8260B	0.014	0.25	mg/kg	--	--	--	--
sec-Butylbenzene	135-98-8	Soil/Solid	8260B	0.012	0.25	mg/kg	--	--	25	70
Styrene	100-42-5	Soil/Solid	8260B	0.012	0.25	mg/kg	--	1.9	210	600
tert-Butylbenzene	98-06-6	Soil/Solid	8260B	0.0073	0.25	mg/kg	--	--	30	90
Tetrachloroethene	127-18-4	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.068	72	131
Tetrahydrofuran	109-99-9	Soil/Solid	8260B	0.068	2.0	mg/kg	--	0.16	--	--
Toluene	108-88-3	Soil/Solid	8260B	0.0063	0.25	mg/kg	--	6.4	107	305
trans-1,2-Dichloroethene	156-60-5	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.27	11	33
trans-1,3-Dichloropropene	10061-02-6	Soil/Solid	8260B	0.013	0.25	mg/kg	--	0.005 M	--	--
Trichloroethene	79-01-6	Soil/Solid	8260B	0.013	0.25	mg/kg	--	0.14	29	46
Trichlorofluoromethane	75-69-4	Soil/Solid	8260B	0.035	0.25	mg/kg	--	22	67	195
Vinyl chloride	75-01-4	Soil/Solid	8260B	0.031	0.25	mg/kg	--	0.001	0.8	2.2
VOCs - Water/Liquid										
1,1,1,2-Tetrachloroethane	630-20-6	Water/Liquid	8260B	0.083	1.0	ug/L	70	--	--	--
1,1,1-Trichloroethane	71-55-6	Water/Liquid	8260B	0.098	1.0	ug/L	9000 (4)	--	--	--
1,1,2,2-Tetrachloroethane	79-34-5	Water/Liquid	8260B	0.084	1.0	ug/L	2	--	--	--
1,1,2-Trichloroethane	79-00-5	Water/Liquid	8260B	0.15	1.0	ug/L	3	--	--	--
1,1,2-Trichlorotrifluoroethane	76-13-1	Water/Liquid	8260B	0.10	1.0	ug/L	200000	--	--	--
1,1-Dichloroethane	75-34-3	Water/Liquid	8260B	0.094	1.0	ug/L	100 (7)	--	--	--
1,1-Dichloroethene	75-35-4	Water/Liquid	8260B	0.10	1.0	ug/L	200	--	--	--
1,1-Dichloropropene	563-58-6	Water/Liquid	8260B	0.099	1.0	ug/L	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	Water/Liquid	8260B	0.40	5.0	ug/L	--	--	--	--
1,2,3-Trichloropropane	96-18-4	Water/Liquid	8260B	0.13	2.5	ug/L	40	--	--	--
1,2,4-Trichlorobenzene	120-82-1	Water/Liquid	8260B	0.52	5.0	ug/L	--	--	--	--
1,2,4-Trimethylbenzene	95-63-6	Water/Liquid	8260B	0.052	1.0	ug/L	--	--	--	--
1,2-Dibromo-3-chloropropane	96-12-8	Water/Liquid	8260B	1.2	5.0	ug/L	--	--	--	--
1,2-Dibromoethane (EDB)	106-93-4	Water/Liquid	8260B	0.10	2.5	ug/L	0.004	--	--	--
1,2-Dichlorobenzene	95-50-1	Water/Liquid	8260B	0.12	1.0	ug/L	600	--	--	--
1,2-Dichloroethane	107-06-2	Water/Liquid	8260B	0.084	1.0	ug/L	4	--	--	--
1,2-Dichloropropane	78-87-5	Water/Liquid	8260B	0.13	1.0	ug/L	5	--	--	--
1,3,5-Trimethylbenzene	108-67-8	Water/Liquid	8260B	0.066	1.0	ug/L	100 (4) (6)	--	--	--
1,3-Dichlorobenzene	541-73-1	Water/Liquid	8260B	0.094	1.0	ug/L	--	--	--	--
1,3-Dichloropropane	142-28-9	Water/Liquid	8260B	0.074	1.0	ug/L	--	--	--	--
1,4-Dichlorobenzene	106-46-7	Water/Liquid	8260B	0.053	1.0	ug/L	10	--	--	--
2,2-Dichloropropane	594-20-7	Water/Liquid	8260B	0.23	5.0	ug/L	--	--	--	--
2-Butanone	78-93-3	Water/Liquid	8260B	0.58	20	ug/L	4000	--	--	--
2-Chlorotoluene	95-49-8	Water/Liquid	8260B	0.077	1.0	ug/L	--	--	--	--
4-Chlorotoluene	106-43-4	Water/Liquid	8260B	0.059	1.0	ug/L	--	--	--	--
Acetone	67-64-1	Water/Liquid	8260B	0.69	20	ug/L	700	--	--	--
Allyl chloride	107-05-1	Water/Liquid	8260B	0.28	5.0	ug/L	30	--	--	--
Benzene	71-43-2	Water/Liquid	8260B	0.047	1.0	ug/L	2 (4)	--	--	--
Bromobenzene	108-86-1	Water/Liquid	8260B	0.084	1.0	ug/L	--	--	--	--
Bromochloromethane	74-97-5	Water/Liquid	8260B	0.075	1.0	ug/L	--	--	--	--
Bromodichloromethane	75-27-4	Water/Liquid	8260B	0.13	1.0	ug/L	8	--	--	--
Bromoform	75-25-2	Water/Liquid	8260B	0.074	5.0	ug/L	40	--	--	--
Bromomethane	74-83-9	Water/Liquid	8260B	0.26	5.0	ug/L	10	--	--	--
Carbon tetrachloride	56-23-5	Water/Liquid	8260B	0.074	1.0	ug/L	3	--	--	--
Chlorobenzene	108-90-7	Water/Liquid	8260B	0.025	1.0	ug/L	100	--	--	--
Chloroethane	75-00-3	Water/Liquid	8260B	0.26	2.5	ug/L	--	--	--	--
Chloroform	67-66-3	Water/Liquid	8260B	0.098	1.0	ug/L	30 (4) (6)	--	--	--
Chloromethane	74-87-3	Water/Liquid	8260B	0.098	2.5	ug/L	--	--	--	--
cis-1,2-Dichloroethene	156-59-2	Water/Liquid	8260B	0.12	1.0	ug/L	50 (4)	--	--	--
cis-1,3-Dichloropropene	10061-01-5	Water/Liquid	8260B	0.11	1.0	ug/L	--	--	--	--
Dibromochloromethane	124-48-1	Water/Liquid	8260B	0.084	2.5	ug/L	10	--	--	--
Dibromomethane	74-95-3	Water/Liquid	8260B	0.14	2.5	ug/L	--	--	--	--
Dichlorodifluoromethane	75-71-8	Water/Liquid	8260B	0.39	5.0	ug/L	700 (4)	--	--	--
Dichlorofluoromethane	75-43-4	Water/Liquid	8260B	0.070	1.0	ug/L	--	--	--	--
Ethyl ether	60-29-7	Water/Liquid	8260B	0.10	5.0	ug/L	1000	--	--	--
Ethylbenzene	100-41-4	Water/Liquid	8260B	0.055	1.0	ug/L	700	--	--	--
Hexachlorobutadiene	87-68-3	Water/Liquid	8260B	0.58	10	ug/L	1	--	--	--
Isopropylbenzene	98-82-8	Water/Liquid	8260B	0.068	1.0	ug/L	300	--	--	--
m,p-Xylene	108-38-3 / 106-42-3	Water/Liquid	8260B	0.14	2.0	ug/L	10000 M	--	--	--
Methyl isobutyl ketone	108-10-1	Water/Liquid	8260B	0.13	5.0	ug/L	300	--	--	--
Methyl tert-butyl ether	1634-04-4	Water/Liquid	8260B	0.079	1.0	ug/L	--	--	--	--

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [a]	Minnesota Tier SLV [a]	Minnesota SRV [a]	Minnesota Tier II Industrial SRV [a]
Methylene chloride	75-09-2	Water/Liquid	8260B	0.29	5.0	ug/L	5 (3)	--	--	--
Naphthalene	91-20-3	Water/Liquid	8260B	0.38	5.0	ug/L	300	--	--	--
n-Butylbenzene	104-51-8	Water/Liquid	8260B	0.094	2.5	ug/L	--	--	--	--
n-Propylbenzene	103-65-1	Water/Liquid	8260B	0.079	1.0	ug/L	--	--	--	--
o-Xylene	95-47-6	Water/Liquid	8260B	0.074	1.0	ug/L	10000 M	--	--	--
p-Isopropyltoluene	99-87-6	Water/Liquid	8260B	0.087	2.5	ug/L	--	--	--	--
sec-Butylbenzene	135-98-8	Water/Liquid	8260B	0.030	1.0	ug/L	--	--	--	--
Styrene	100-42-5	Water/Liquid	8260B	0.072	1.0	ug/L	--	--	--	--
tert-Butylbenzene	98-06-6	Water/Liquid	8260B	0.046	1.0	ug/L	--	--	--	--
Tetrachloroethene	127-18-4	Water/Liquid	8260B	0.10	1.0	ug/L	5 (3)	--	--	--
Tetrahydrofuran	109-99-9	Water/Liquid	8260B	0.76	20	ug/L	--	--	--	--
Toluene	108-88-3	Water/Liquid	8260B	0.036	1.0	ug/L	1000	--	--	--
trans-1,2-Dichloroethene	156-60-5	Water/Liquid	8260B	0.14	1.0	ug/L	100	--	--	--
trans-1,3-Dichloropropene	10061-02-6	Water/Liquid	8260B	0.082	1.0	ug/L	--	--	--	--
Trichloroethene	79-01-6	Water/Liquid	8260B	0.097	1.0	ug/L	5 (3)	--	--	--
Trichlorofluoromethane	75-69-4	Water/Liquid	8260B	0.17	1.0	ug/L	2000	--	--	--
Vinyl chloride	75-01-4	Water/Liquid	8260B	0.10	1.0	ug/L	0.2 (4)	--	--	--
SemiVolatile Organics										
1,2,4-Trichlorobenzene	120-82-1	Soil/Solid	8270C	0.020	0.33	mg/kg	--	0.31	200	985
1,2-Dichlorobenzene	95-50-1	Soil/Solid	8270C	0.012	0.33	mg/kg	--	8.1	26	75
1,2-Diphenylhydrazine as Azobenzene	103-33-3	Soil/Solid	8270C	0.039	0.33	mg/kg	--	--	--	--
1,3-Dichlorobenzene	541-73-1	Soil/Solid	8270C	0.014	0.33	mg/kg	--	4.2	26	200
1,4-Dichlorobenzene	106-46-7	Soil/Solid	8270C	0.013	0.33	mg/kg	--	0.13	30	50
2,3,4,6-Tetrachlorophenol	58-90-2	Soil/Solid	8270C	0.072	0.67	mg/kg	--	--	636	3700
2,4,5-Trichlorophenol	95-95-4	Soil/Solid	8270C	0.039	0.67	mg/kg	--	--	1920	10600
2,4,6-Trichlorophenol	88-06-2	Soil/Solid	8270C	0.081	0.67	mg/kg	--	0.21	595	1060
2,4-Dichlorophenol	120-83-2	Soil/Solid	8270C	0.046	0.67	mg/kg	--	0.076	46	230
2,4-Dimethylphenol	105-67-9	Soil/Solid	8270C	0.079	0.67	mg/kg	--	0.34	390	1925
2,4-Dinitrophenol	51-28-5	Soil/Solid	8270C	0.064	0.67	mg/kg	--	0.014	--	--
2,4-Dinitrotoluene	121-14-2	Soil/Solid	8270C	0.044	0.33	mg/kg	--	0.001	50	355
2,6-Dichlorophenol	87-65-0	Soil/Solid	8270C	0.042	0.67	mg/kg	--	--	--	--
2,6-Dinitrotoluene	606-20-2	Soil/Solid	8270C	0.040	0.33	mg/kg	--	0.001	25	175
2-Chloronaphthalene	91-58-7	Soil/Solid	8270C	0.018	0.33	mg/kg	--	--	--	--
2-Chlorophenol	95-57-8	Soil/Solid	8270C	0.029	0.67	mg/kg	--	0.26	--	--
2-Methylnaphthalene	91-57-6	Soil/Solid	8270C	0.021	0.33	mg/kg	--	--	100	369
2-Methylphenol	95-48-7	Soil/Solid	8270C	0.019	0.67	mg/kg	--	0.064	75	352
2-Nitroaniline	88-74-4	Soil/Solid	8270C	0.041	0.33	mg/kg	--	--	--	--
2-Nitrophenol	88-75-5	Soil/Solid	8270C	0.040	0.67	mg/kg	--	0.60	--	--
3,3'-Dichlorobenzidine	91-94-1	Soil/Solid	8270C	0.21	1.6	mg/kg	--	0.36	25	50
3-Nitroaniline	99-09-2	Soil/Solid	8270C	0.041	0.33	mg/kg	--	--	--	--
4,6-Dinitro-2-methylphenol	534-52-1	Soil/Solid	8270C	0.097	0.67	mg/kg	--	--	--	--
4-Bromophenyl phenyl ether	101-55-3	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	--	--
4-Chloro-3-methylphenol	59-50-7	Soil/Solid	8270C	0.075	0.67	mg/kg	--	--	--	--
4-Chloroaniline	106-47-8	Soil/Solid	8270C	0.022	0.67	mg/kg	--	--	--	--
4-Chlorophenyl phenyl ether	7005-72-3	Soil/Solid	8270C	0.024	0.33	mg/kg	--	--	--	--
4-Methylphenol	106-44-5	Soil/Solid	8270C	0.017	0.67	mg/kg	--	0.033	10	59
4-Nitroaniline	100-01-6	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	--	--
4-Nitrophenol	100-02-7	Soil/Solid	8270C	0.081	0.67	mg/kg	--	--	--	--
Acenaphthene	83-32-9	Soil/Solid	8270C	0.020	0.33	mg/kg	--	50	1200	5260
Acenaphthylene	208-96-8	Soil/Solid	8270C	0.031	0.33	mg/kg	--	--	--	--
Aniline	62-53-3	Soil/Solid	8270C	0.034	0.67	mg/kg	--	--	--	--
Anthracene	120-12-7	Soil/Solid	8270C	0.043	0.33	mg/kg	--	942	7880	45400
Benzidine	92-87-5	Soil/Solid	8270C	0.71	2.5	mg/kg	--	--	--	--
Benzo (a) anthracene	56-55-3	Soil/Solid	8270C	0.045	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (a) pyrene	50-32-8	Soil/Solid	8270C	0.049	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (b) fluoranthene	205-99-2	Soil/Solid	8270C	0.048	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (g,h,i) perylene	191-24-2	Soil/Solid	8270C	0.050	0.33	mg/kg	--	--	--	--
Benzo (k) fluoranthene	207-08-9	Soil/Solid	8270C	0.053	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzoic acid	65-85-0	Soil/Solid	8270C	0.036	0.33	mg/kg	--	30	50000	100000
Benzyl alcohol	100-51-6	Soil/Solid	8270C	0.11	0.67	mg/kg	--	--	8700	56000
Bis(2-chloroethoxy)methane	111-91-1	Soil/Solid	8270C	0.021	0.33	mg/kg	--	--	--	--
Bis(2-chloroethyl)ether	111-44-4	Soil/Solid	8270C	0.013	0.33	mg/kg	--	0.001	2.5	5
Bis(2-chloroisopropyl)ether	39638-32-9	Soil/Solid	8270C	0.017	0.33	mg/kg	--	--	--	--
Bis(2-ethylhexyl)phthalate	117-81-7	Soil/Solid	8270C	0.046	0.33	mg/kg	--	40	570	2100
Butyl benzyl phthalate	85-68-7	Soil/Solid	8270C	0.047	0.33	mg/kg	--	28	580	3700
Carbazole	86-74-8	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	700	1310
Chrysene	218-01-9	Soil/Solid	8270C	0.049	0.33	mg/kg	--	10.2 T	2 T	3 T
Dibenz (a,h) anthracene	53-70-3	Soil/Solid	8270C	0.053	0.33	mg/kg	--	10.2 T	2 T	3 T
Dibenzofuran	132-64-9	Soil/Solid	8270C	0.022	0.33	mg/kg	--	--	104	810

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Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits	Minnesota Tier SLV *	Minnesota SRV *	Minnesota Tier II Industrial SRV *
Diethyl phthalate	84-66-2	Soil/Solid	8270C	0.045	0.33	mg/kg	--	18	--	--
Dimethyl phthalate	131-11-3	Soil/Solid	8270C	0.043	0.33	mg/kg	--	172	--	--
Di-n-butyl phthalate	84-74-2	Soil/Solid	8270C	0.054	0.33	mg/kg	--	23	2440	16300
Di-n-octyl phthalate	117-84-0	Soil/Solid	8270C	0.056	0.33	mg/kg	--	--	520	3700
Fluoranthene	206-44-0	Soil/Solid	8270C	0.047	0.33	mg/kg	--	295	1080	6800
Fluorene	86-73-7	Soil/Solid	8270C	0.011	0.33	mg/kg	--	47	850	4120
Hexachlorobenzene	118-74-1	Soil/Solid	8270C	0.041	0.33	mg/kg	--	0.32	5	9
Hexachlorobutadiene	87-68-3	Soil/Solid	8270C	0.035	0.33	mg/kg	--	25	6	37
Hexachlorocyclopentadiene	77-47-4	Soil/Solid	8270C	0.030	0.33	mg/kg	--	4.4	2	6
Hexachloroethane	67-72-1	Soil/Solid	8270C	0.018	0.33	mg/kg	--	0.050	--	--
Indeno (1,2,3-cd) pyrene	193-39-5	Soil/Solid	8270C	0.042	0.33	mg/kg	--	10.2 T	2 T	3 T
Isophorone	78-59-1	Soil/Solid	8270C	0.018	0.33	mg/kg	--	0.16	--	--
Naphthalene	91-20-3	Soil/Solid	8270C	0.015	0.33	mg/kg	--	7.5	10	28
Nitrobenzene	98-95-3	Soil/Solid	8270C	0.014	0.33	mg/kg	--	--	--	--
N-Nitrosodimethylamine	62-75-9	Soil/Solid	8270C	0.028	0.33	mg/kg	--	0.82	--	--
N-Nitrosodi-n-propylamine	621-64-7	Soil/Solid	8270C	0.014	0.33	mg/kg	--	--	0.7	1.2
N-Nitrosodiphenylamine ***	86-30-6	Soil/Solid	8270C	0.045	0.33	mg/kg	--	0.88	1950	3720
Diphenylamine ***	122-39-4	Soil/Solid	8270C	--	--	--	--	--	--	--
Pentachlorophenol	87-86-5	Soil/Solid	8270C	0.081	0.67	mg/kg	--	0.034	80	120
Phenanthrene	85-01-8	Soil/Solid	8270C	0.026	0.33	mg/kg	--	--	--	--
Phenol	108-95-2	Soil/Solid	8270C	0.027	0.67	mg/kg	--	7.8	1500	20203
Pyrene	129-00-0	Soil/Solid	8270C	0.046	0.33	mg/kg	--	272	890	5800
2,4-Dinitrotoluene (DNT)	121-14-2	Soil/Solid	8270C	0.063	3.0	mg/kg	--	0.001	50	355
2,6-Dinitrotoluene (DNT)	606-20-2	Soil/Solid	8270C	0.13	3.0	mg/kg	--	0.001	25	175
SemiVolatile Organics										
1,2,4-Trichlorobenzene	120-82-1	Water/Liquid	8270C	0.28	10	ug/L	--	--	--	--
1,2-Dichlorobenzene	95-50-1	Water/Liquid	8270C	0.21	10	ug/L	600	--	--	--
1,2-Diphenylhydrazine as Azobenzene	103-33-3	Water/Liquid	8270C	0.20	10	ug/L	--	--	--	--
1,3-Dichlorobenzene	541-73-1	Water/Liquid	8270C	0.21	10	ug/L	--	--	--	--
1,4-Dichlorobenzene	106-46-7	Water/Liquid	8270C	0.18	10	ug/L	10	--	--	--
2,3,4,6-Tetrachlorophenol	58-90-2	Water/Liquid	8270C	1.0	10	ug/L	--	--	--	--
2,4,5-Trichlorophenol	95-95-4	Water/Liquid	8270C	0.85	10	ug/L	--	--	--	--
2,4,6-Trichlorophenol	88-06-2	Water/Liquid	8270C	0.89	10	ug/L	30	--	--	--
2,4-Dichlorophenol	120-83-2	Water/Liquid	8270C	0.78	10	ug/L	20	--	--	--
2,4-Dimethylphenol	105-67-9	Water/Liquid	8270C	0.78	10	ug/L	100	--	--	--
2,4-Dinitrophenol	51-28-5	Water/Liquid	8270C	0.50	10	ug/L	10	--	--	--
2,4-Dinitrotoluene	121-14-2	Water/Liquid	8270C	0.49	10	ug/L	0.5 (2)	--	--	--
2,6-Dichlorophenol	87-65-0	Water/Liquid	8270C	0.78	10	ug/L	--	--	--	--
2,6-Dinitrotoluene	606-20-2	Water/Liquid	8270C	0.39	10	ug/L	0.5 (2)	--	--	--
2-Chloronaphthalene	91-58-7	Water/Liquid	8270C	0.20	10	ug/L	--	--	--	--
2-Chlorophenol	95-57-8	Water/Liquid	8270C	0.66	10	ug/L	30	--	--	--
2-Methylnaphthalene	91-57-6	Water/Liquid	8270C	0.32	10	ug/L	--	--	--	--
2-Methylphenol	95-48-7	Water/Liquid	8270C	0.77	10	ug/L	30	--	--	--
2-Nitroaniline	88-74-4	Water/Liquid	8270C	0.92	10	ug/L	--	--	--	--
2-Nitrophenol	88-75-5	Water/Liquid	8270C	1.0	10	ug/L	--	--	--	--
3,3'-Dichlorobenzidine	91-94-1	Water/Liquid	8270C	7.1	25	ug/L	0.8	--	--	--
3-Nitroaniline	99-09-2	Water/Liquid	8270C	0.95	10	ug/L	--	--	--	--
4,6-Dinitro-2-methylphenol	534-52-1	Water/Liquid	8270C	0.90	10	ug/L	--	--	--	--
4-Bromophenyl phenyl ether	101-55-3	Water/Liquid	8270C	0.19	10	ug/L	--	--	--	--
4-Chloro-3-methylphenol	59-50-7	Water/Liquid	8270C	0.79	10	ug/L	--	--	--	--
4-Chloroaniline	106-47-8	Water/Liquid	8270C	1.0	10	ug/L	--	--	--	--
4-Chlorophenol	106-48-9	Water/Liquid	8270C	NA	NA	ug/L	--	--	--	--
4-Chlorophenyl phenyl ether	7005-72-3	Water/Liquid	8270C	0.15	10	ug/L	--	--	--	--
4-Methylphenol	106-44-5	Water/Liquid	8270C	0.82	10	ug/L	3	--	--	--
4-Nitroaniline	100-01-6	Water/Liquid	8270C	0.63	10	ug/L	--	--	--	--
4-Nitrophenol	100-02-7	Water/Liquid	8270C	1.2	10	ug/L	--	--	--	--
Acenaphthene	83-32-9	Water/Liquid	8270C	0.15	10	ug/L	400	--	--	--
Acenaphthylene	208-96-8	Water/Liquid	8270C	0.17	10	ug/L	--	--	--	--
Aniline	62-53-3	Water/Liquid	8270C	0.97	10	ug/L	--	--	--	--
Anthracene	120-12-7	Water/Liquid	8270C	0.18	10	ug/L	2000	--	--	--
Benzidine	92-87-5	Water/Liquid	8270C	23	100	ug/L	--	--	--	--
Benzo (a) anthracene	56-55-3	Water/Liquid	8270C	0.18	10	ug/L	--	--	--	--
Benzo (a) pyrene	50-32-8	Water/Liquid	8270C	0.22	10	ug/L	--	--	--	--
Benzo (b) fluoranthene	205-99-2	Water/Liquid	8270C	0.18	10	ug/L	--	--	--	--
Benzo (g,h,i) perylene	191-24-2	Water/Liquid	8270C	0.24	10	ug/L	--	--	--	--
Benzo (k) fluoranthene	207-08-9	Water/Liquid	8270C	0.21	10	ug/L	--	--	--	--
Benzoic acid	65-85-0	Water/Liquid	8270C	0.75	10	ug/L	30000	--	--	--
Benzyl alcohol	100-51-6	Water/Liquid	8270C	0.66	10	ug/L	--	--	--	--
Bis(2-chloroethoxy)methane	111-91-1	Water/Liquid	8270C	0.21	10	ug/L	--	--	--	--

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Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [3]	Minnesota Tier SLV [4]	Minnesota SRV [5]	Minnesota Tier II Industrial SRV [6]
Bis(2-chloroethyl)ether	111-44-4	Water/Liquid	8270C	0.21	10	ug/L	0.3	--	--	--
Bis(2-chloroisopropyl)ether	39638-32-9	Water/Liquid	8270C	0.14	10	ug/L	--	--	--	--
Bis(2-ethylhexyl)phthalate	117-81-7	Water/Liquid	8270C	0.45	10	ug/L	20 (1)	--	--	--
Butyl benzyl phthalate	85-68-7	Water/Liquid	8270C	0.33	10	ug/L	100	--	--	--
Carbazole	86-74-8	Water/Liquid	8270C	0.24	10	ug/L	--	--	--	--
Chrysene	218-01-9	Water/Liquid	8270C	0.15	10	ug/L	--	--	--	--
Dibenz (a,h) anthracene	53-70-3	Water/Liquid	8270C	0.25	10	ug/L	--	--	--	--
Dibenzofuran	132-64-9	Water/Liquid	8270C	0.27	10	ug/L	--	--	--	--
Diethyl phthalate	84-66-2	Water/Liquid	8270C	0.32	10	ug/L	6000	--	--	--
Dimethyl phthalate	131-11-3	Water/Liquid	8270C	0.26	10	ug/L	70000	--	--	--
Di-n-butyl phthalate	84-74-2	Water/Liquid	8270C	0.33	10	ug/L	700	--	--	--
Di-n-octyl phthalate	117-84-0	Water/Liquid	8270C	0.42	10	ug/L	--	--	--	--
Fluoranthene	206-44-0	Water/Liquid	8270C	0.23	10	ug/L	300	--	--	--
Fluorene	86-73-7	Water/Liquid	8270C	0.16	10	ug/L	300	--	--	--
Hexachlorobenzene	118-74-1	Water/Liquid	8270C	0.15	10	ug/L	0.2	--	--	--
Hexachlorobutadiene	87-68-3	Water/Liquid	8270C	0.34	10	ug/L	1	--	--	--
Hexachlorocyclopentadiene	77-47-4	Water/Liquid	8270C	0.22	10	ug/L	--	--	--	--
Hexachloroethane	67-72-1	Water/Liquid	8270C	0.30	10	ug/L	--	--	--	--
Indeno (1,2,3-cd) pyrene	193-39-5	Water/Liquid	8270C	0.19	10	ug/L	--	--	--	--
Isophorone	78-59-1	Water/Liquid	8270C	0.23	10	ug/L	100	--	--	--
Naphthalene	91-20-3	Water/Liquid	8270C	0.19	10	ug/L	300	--	--	--
Nitrobenzene	98-95-3	Water/Liquid	8270C	0.26	10	ug/L	--	--	--	--
N-Nitrosodimethylamine	62-75-9	Water/Liquid	8270C	0.30	10	ug/L	--	--	--	--
N-Nitrosodi-n-propylamine	621-64-7	Water/Liquid	8270C	0.28	10	ug/L	--	--	--	--
N-Nitrosodiphenylamine ***	86-30-6	Water/Liquid	8270C	0.27	10	ug/L	70	--	--	--
Diphenylamine ***	122-39-4	Water/Liquid	8270C	--	--	--	--	--	--	--
Pentachlorophenol	87-86-5	Water/Liquid	8270C	0.99	10	ug/L	1 (3)	--	--	--
Phenanthrene	85-01-8	Water/Liquid	8270C	0.13	10	ug/L	--	--	--	--
Phenol	108-95-2	Water/Liquid	8270C	0.59	10	ug/L	4000	--	--	--
Pyrene	129-00-0	Water/Liquid	8270C	0.24	10	ug/L	200	--	--	--

Notes:
M - the values with this notation indicate the limit is for all combined isomers of this compound
T - the values with this notation represent the limit for the total carcinogenic PAHs as BaP
C - Mercury as mercuric chloride
(TA) - Legend Technical Services, Inc. will subcontract this analysis to Test America, West Sacramento, California.
(Braun) - Legend Technical Services, Inc. will subcontract this analysis to Braun Intertec, Minneapolis, MN.
(1) Not a HRL but a Health Based Value (HBV)
(2) (SRL)-Specific Risk Level (water concentration which corresponds to a riskof 1E-5.
(3) Not a HRL but an EPA Maximum Contaminant Level (MCL).
(4) Value is representative of the lowest exposure duration published in the 2008 Health Risk Limits.
(5) Value represents the criteria for Chromium, hexavalent.
(6) Set at short-term HRL.
(7) Not a HRL, but a Risk Assessment Advice (RAA).
(8) Value represents the criteria for Chromium, Trivalent.
[3] - Minnesota Department of Health, Health Risk Limit (HRL) unless noted otherwise.
[4] - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Soil Leaching Value (SLV)
[5] - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Soil Reference Value (SRV)
[6] - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Tier II Industrial SRV.

P:\Mpls\23 MN\19\2319B05 UMore park environmental\WorkFiles\Phase II investigation WO#1 and #6\Phase II Work Plan\SSI_RI Work Plan\SAP\V2.0\Part 2-QAPP\Tables\Table 1 ParametersUPDATED061309.xls

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88 Empire Drive
St Paul, MN 55103
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Fax: 651-642-1239

September 28, 2009

Ms. Kelly Neppl
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0904032
RE: 23190B05.07

Enclosed are the results of analyses for samples received by the laboratory on 09/14/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of this report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

Terri Olson
Client Manager II
tolson@legend-group.com

Erica Nastrom
QA/QC Coordinator
enastrom@legend-group.com

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LEGEND Technical Services, Inc.
www.legend-group.com

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St Paul, MN 55103
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Fax: 651-642-1239

Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904032
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/28/09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC4-GP2_1-3	0904032-01	Soil	09/11/09 09:15	09/14/09 13:15
SOC4-GP3_1-3	0904032-02	Soil	09/11/09 10:00	09/14/09 13:15
SOC1-GP3R	0904032-03	Water	09/11/09 11:15	09/14/09 13:15

Shipping Container Information

Default Cooler Temperature (°C): 8.7

Received on ice: Yes
Received on melt water: No
Custody seals: Yes

Temperature blank was present
Ambient: No

Received on ice pack: No
Acceptable (IH/ISO only): No

Case Narrative:

MN Certification does not apply to carbazole in the 8270C analysis.

Beryllium recoveries in the MS/MSD samples for 6020 batch B9I2003 were below laboratory control limits. Recoveries in the LCS/LCSD samples and the corresponding RPDs were within limits. The MS/MSD source sample was not associated with this work order.

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UMP-019473

LEGEND Technical Services, Inc.
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88 Empire Drive
St Paul, MN 55103
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Fax: 651-642-1239

Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904032
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/28/09

DISSOLVED METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-GP3R (0904032-03) Water Sampled: 09/11/09 11:15 Received: 09/14/09 13:15										
Antimony	<0.046	0.50	0.046	ug/L	1	B9I2003	09/20/09	09/21/09	EPA 6020 (Dissolved)	
Arsenic	<10	10	2.0	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B (Dissolved)	
Beryllium	<0.027	0.50	0.027	ug/L	1	B9I2003	09/20/09	09/21/09	EPA 6020 (Dissolved)	
Cadmium	<1.0	1.0	0.099	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B (Dissolved)	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	
Copper	<20	20	1.4	ug/L	1	"	"	"	"	
Lead	<3.0	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B9I2109	09/21/09	09/22/09	EPA 7470A (Dissolved)	
Nickel	<5.0	5.0	0.28	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B (Dissolved)	
Selenium	<20	20	2.2	ug/L	1	"	"	"	"	
Silver	<5.0	5.0	0.18	ug/L	1	"	"	"	"	
Thallium	<0.0081	0.50	0.0081	ug/L	1	B9I2003	09/20/09	09/21/09	EPA 6020 (Dissolved)	
Zinc	<20	20	4.4	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B (Dissolved)	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904032
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/28/09

PERCENT SOLIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP2_1-3 (0904032-01) Soil	**Sampled: 09/11/09 09:15**		**Received: 09/14/09 13:15**							
% Solids	**90**			%	1	B9I2310	09/23/09	09/23/09	% calculation	
SOC4-GP3_1-3 (0904032-02) Soil	**Sampled: 09/11/09 10:00**		**Received: 09/14/09 13:15**							
% Solids	**87**			%	1	B9I2310	09/23/09	09/23/09	% calculation	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

UMP-019475

LEGEND Technical Services, Inc.
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Tel: 651-642-1150
Fax: 651-642-1239

Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904032
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/28/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP2_1-3 (0904032-01) Soil Sampled: 09/11/09 09:15 Received: 09/14/09 13:15										
1,2,4-Trichlorobenzene	<0.030	0.37	0.030	mg/kg dry	1	B9I1804	09/18/09	09/18/09	EPA 8270C	
1,2-Dichlorobenzene	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.022	0.37	0.022	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.027	0.37	0.027	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.042	0.74	0.042	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.027	0.74	0.027	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.039	0.74	0.039	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.039	0.74	0.039	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.74	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.064	0.74	0.064	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.023	0.37	0.023	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.048	0.74	0.048	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.042	0.74	0.042	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.031	0.37	0.031	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.039	0.74	0.039	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.022	0.37	0.022	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.040	0.74	0.040	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.43	1.8	0.43	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.037	0.37	0.037	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.082	0.74	0.082	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.019	0.37	0.019	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.044	0.74	0.044	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.12	0.74	0.12	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.030	0.74	0.030	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.74	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	**0.031**	0.37	0.031	mg/kg dry	1	"	"	"	"	J
Acenaphthylene	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.74	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
Benzidine	<0.80	2.8	0.80	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.030	0.37	0.030	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.030	0.37	0.030	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.038	0.37	0.038	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.033	0.37	0.033	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904032
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/28/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP2_1-3 (0904032-01) Soil Sampled: 09/11/09 09:15 Received: 09/14/09 13:15										
Benzo (k) fluoranthene	<0.034	0.37	0.034	mg/kg dry	1	B9I1804	09/18/09	09/18/09	EPA 8270C	
Benzoic acid	<0.064	0.37	0.064	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.13	0.74	0.13	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.023	0.37	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.027	0.37	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.024	0.37	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.022	0.37	0.022	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.023	0.37	0.023	mg/kg dry	1	"	"	"	"	
Carbazole	<0.024	0.37	0.024	mg/kg dry	1	"	"	"	"	
Chrysene	<0.037	0.37	0.037	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.038	0.37	0.038	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.017	0.37	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.020	0.37	0.020	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.041	0.37	0.041	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.027	0.37	0.027	mg/kg dry	1	"	"	"	"	
Fluorene	<0.020	0.37	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.018	0.37	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.037	0.37	0.037	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.046	0.37	0.046	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.031	0.37	0.031	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.036	0.37	0.036	mg/kg dry	1	"	"	"	"	
Isophorone	<0.019	0.37	0.019	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.032	0.37	0.032	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.033	0.37	0.033	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.036	0.37	0.036	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.020	0.37	0.020	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.74	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
Phenol	<0.063	0.74	0.063	mg/kg dry	1	"	"	"	"	
Pyrene	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*85.1*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*68.3*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*72.8*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*73.2*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*79.2*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*69.3*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904032
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/28/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP3_1-3 (0904032-02) Soil Sampled: 09/11/09 10:00 Received: 09/14/09 13:15										
1,2,4-Trichlorobenzene	<0.031	0.38	0.031	mg/kg dry	1	B9I1804	09/18/09	09/18/09	EPA 8270C	
1,2-Dichlorobenzene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.044	0.77	0.044	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.028	0.77	0.028	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.77	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.067	0.77	0.067	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.049	0.77	0.049	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.044	0.77	0.044	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.041	0.77	0.041	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.45	1.8	0.45	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.085	0.77	0.085	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.046	0.77	0.046	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.77	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.031	0.77	0.031	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.77	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.77	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Benzidine	<0.83	2.9	0.83	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.039	0.38	0.039	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904032
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/28/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP3_1-3 (0904032-02) Soil Sampled: 09/11/09 10:00 Received: 09/14/09 13:15										
Benzo (k) fluoranthene	<0.036	0.38	0.036	mg/kg dry	1	B9I1804	09/18/09	09/18/09	EPA 8270C	
Benzoic acid	<0.067	0.38	0.067	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.77	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.025	0.38	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Carbazole	<0.025	0.38	0.025	mg/kg dry	1	"	"	"	"	
Chrysene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.039	0.38	0.039	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.017	0.38	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.043	0.38	0.043	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Fluorene	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.018	0.38	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.047	0.38	0.047	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.77	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.066	0.77	0.066	mg/kg dry	1	"	"	"	"	
Pyrene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*83.3*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*64.2*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*68.5*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*68.9*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*75.7*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*69.4*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904032
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/28/09

DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2003 - EPA 200.8 Digestion											
Blank (B9I2003-BLK1)					Prepared: 09/20/09		Analyzed: 09/23/09				
Antimony	< 0.046	0.50	0.046	ug/L							
Beryllium	< 0.027	0.50	0.027	ug/L							
Thallium	< 0.0081	0.50	0.0081	ug/L							
LCS (B9I2003-BS1)					Prepared: 09/20/09		Analyzed: 09/24/09				
Antimony	23.1	0.50	0.046	ug/L	20.0		116	80-120			
Beryllium	22.4	0.50	0.027	ug/L	20.0		112	80-120			
Thallium	20.6	0.50	0.0081	ug/L	20.0		103	80-120			
LCS Dup (B9I2003-BSD1)					Prepared: 09/20/09		Analyzed: 09/23/09				
Antimony	22.1	0.50	0.046	ug/L	20.0		111	80-120	4.30	20	
Beryllium	21.9	0.50	0.027	ug/L	20.0		109	80-120	2.42	20	
Thallium	21.5	0.50	0.0081	ug/L	20.0		108	80-120	4.58	20	
Matrix Spike (B9I2003-MS1)		**Source: 0903921-02**			Prepared: 09/20/09		Analyzed: 09/23/09				
Antimony	15.7	0.50	0.046	ug/L	20.0	0.542	75.8	75-125			
Beryllium	4.78	0.50	0.027	ug/L	20.0	<0.50	23.9	75-125			M2
Thallium	21.7	0.50	0.0081	ug/L	20.0	<0.50	108	75-125			
Matrix Spike Dup (B9I2003-MSD1)		**Source: 0903921-02**			Prepared: 09/20/09		Analyzed: 09/23/09				
Antimony	19.0	0.50	0.046	ug/L	20.0	0.542	92.2	75-125	19.0	20	
Beryllium	4.96	0.50	0.027	ug/L	20.0	<0.50	24.8	75-125	3.76	20	M2
Thallium	21.7	0.50	0.0081	ug/L	20.0	<0.50	108	75-125	0.323	20	
Batch B9I2004 - EPA 200.7/3005A Digestion											
Blank (B9I2004-BLK1)					Prepared & Analyzed: 09/20/09						
Arsenic	< 10	10	2.0	ug/L							
Cadmium	< 1.0	1.0	0.099	ug/L							
Chromium	< 10	10	0.24	ug/L							
Copper	< 20	20	1.4	ug/L							
Lead	< 3.0	3.0	0.68	ug/L							
Nickel	< 5.0	5.0	0.28	ug/L							
Selenium	< 20	20	2.2	ug/L							
Silver	< 5.0	5.0	0.18	ug/L							
Zinc	< 20	20	4.4	ug/L							
LCS (B9I2004-BS1)					Prepared: 09/20/09		Analyzed: 09/21/09				
Arsenic	332	10	2.0	ug/L	399		83.2	80-120			
Cadmium	353	1.0	0.099	ug/L	399		88.4	80-120			
Chromium	366	10	0.24	ug/L	399		91.8	80-120			
Copper	338	20	1.4	ug/L	399		84.7	80-120			
Lead	357	3.0	0.68	ug/L	399		89.4	80-120			
Nickel	360	5.0	0.28	ug/L	399		90.3	80-120			

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904032
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/28/09

DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2004 - EPA 200.7/3005A Digestion											
LCS (B9I2004-BS1)					Prepared: 09/20/09		Analyzed: 09/21/09				
Selenium	330	20	2.2	ug/L	399		82.8	80-120			
Silver	34.1	5.0	0.18	ug/L	39.9		85.4	80-120			
Zinc	343	20	4.4	ug/L	399		86.0	80-120			
LCS Dup (B9I2004-BSD1)					Prepared: 09/20/09		Analyzed: 09/21/09				
Arsenic	338	10	2.0	ug/L	399		84.8	80-120	1.84	20	
Cadmium	362	1.0	0.099	ug/L	399		90.7	80-120	2.59	20	
Chromium	367	10	0.24	ug/L	399		92.1	80-120	0.260	20	
Copper	340	20	1.4	ug/L	399		85.3	80-120	0.643	20	
Lead	368	3.0	0.68	ug/L	399		92.1	80-120	2.95	20	
Nickel	364	5.0	0.28	ug/L	399		91.3	80-120	1.01	20	
Selenium	333	20	2.2	ug/L	399		83.4	80-120	0.634	20	
Silver	33.8	5.0	0.18	ug/L	39.9		84.6	80-120	0.933	20	
Zinc	348	20	4.4	ug/L	399		87.2	80-120	1.31	20	
Matrix Spike (B9I2004-MS1)		**Source: 0904026-01**			Prepared: 09/20/09		Analyzed: 09/21/09				
Arsenic	343	10	2.0	ug/L	399	<10	86.0	75-125			
Cadmium	358	1.0	0.099	ug/L	399	<1.0	89.8	75-125			
Chromium	364	10	0.24	ug/L	399	<10	91.2	75-125			
Copper	343	20	1.4	ug/L	399	<20	85.9	75-125			
Lead	362	3.0	0.68	ug/L	399	<3.0	90.7	75-125			
Nickel	361	5.0	0.28	ug/L	399	28.1	83.5	75-125			
Selenium	338	20	2.2	ug/L	399	<20	84.6	75-125			
Silver	33.9	5.0	0.18	ug/L	39.9	<5.0	85.0	75-125			
Zinc	347	20	4.4	ug/L	399	<20	87.0	75-125			
Matrix Spike Dup (B9I2004-MSD1)		**Source: 0904026-01**			Prepared: 09/20/09		Analyzed: 09/21/09				
Arsenic	347	10	2.0	ug/L	399	<10	86.9	75-125	1.02	20	
Cadmium	358	1.0	0.099	ug/L	399	<1.0	89.6	75-125	0.192	20	
Chromium	361	10	0.24	ug/L	399	<10	90.4	75-125	0.798	20	
Copper	345	20	1.4	ug/L	399	<20	86.4	75-125	0.605	20	
Lead	361	3.0	0.68	ug/L	399	<3.0	90.4	75-125	0.319	20	
Nickel	362	5.0	0.28	ug/L	399	28.1	83.6	75-125	0.141	20	
Selenium	341	20	2.2	ug/L	399	<20	85.5	75-125	1.09	20	
Silver	33.8	5.0	0.18	ug/L	39.9	<5.0	84.8	75-125	0.148	20	
Zinc	366	20	4.4	ug/L	399	<20	91.7	75-125	5.18	20	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904032
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/28/09

DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2109 - EPA 245.1/7470A Digestion											
Blank (B9I2109-BLK1)					Prepared: 09/21/09		Analyzed: 09/22/09				
Mercury	< 0.20	0.20	0.018	ug/L							
LCS (B9I2109-BS1)					Prepared: 09/21/09		Analyzed: 09/22/09				
Mercury	2.12	0.20	0.018	ug/L	2.00		106	80-120			
LCS Dup (B9I2109-BSD1)					Prepared: 09/21/09		Analyzed: 09/22/09				
Mercury	2.16	0.20	0.018	ug/L	2.00		108	80-120	1.87	20	
Matrix Spike (B9I2109-MS1)		**Source: 0904075-01**			Prepared: 09/21/09		Analyzed: 09/22/09				
Mercury	1.97	0.20	0.018	ug/L	2.00	<0.20	98.5	75-125			
Matrix Spike Dup (B9I2109-MSD1)		**Source: 0904075-01**			Prepared: 09/21/09		Analyzed: 09/22/09				
Mercury	2.07	0.20	0.018	ug/L	2.00	<0.20	104	75-125	4.95	20	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904032
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/28/09

PERCENT SOLIDS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2310 - General Preparation											
Duplicate (B9I2310-DUP1)		**Source: 0904140-04**			Prepared & Analyzed: 09/23/09						
% Solids	94.0			%		94.0			0.00	20	
Duplicate (B9I2310-DUP2)		**Source: 0904140-14**			Prepared & Analyzed: 09/23/09						
% Solids	89.0			%		88.0			1.13	20	
Duplicate (B9I2310-DUP3)		**Source: 0904173-01**			Prepared & Analyzed: 09/23/09						
% Solids	32.0			%		32.0			0.00	20	

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4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904032
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/28/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1804 - EPA 3545 ASE Extraction											
Blank (B9I1804-BLK1)					Prepared & Analyzed: 09/18/09						
1,2,4-Trichlorobenzene	< 0.027	0.33	0.027	mg/kg wet							
1,2-Dichlorobenzene	< 0.025	0.33	0.025	mg/kg wet							
1,2-Diphenylhydrazine as Azobenzene	< 0.020	0.33	0.020	mg/kg wet							
1,3-Dichlorobenzene	< 0.023	0.33	0.023	mg/kg wet							
1,4-Dichlorobenzene	< 0.024	0.33	0.024	mg/kg wet							
2,3,4,6-Tetrachlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2,4,5-Trichlorophenol	< 0.024	0.67	0.024	mg/kg wet							
2,4,6-Trichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dimethylphenol	< 0.090	0.67	0.090	mg/kg wet							
2,4-Dinitrophenol	< 0.058	0.67	0.058	mg/kg wet							
2,4-Dinitrotoluene	< 0.021	0.33	0.021	mg/kg wet							
2,6-Dichlorophenol	< 0.043	0.67	0.043	mg/kg wet							
2,6-Dinitrotoluene	< 0.019	0.33	0.019	mg/kg wet							
2-Chloronaphthalene	< 0.019	0.33	0.019	mg/kg wet							
2-Chlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2-Methylnaphthalene	< 0.028	0.33	0.028	mg/kg wet							
2-Methylphenol	< 0.035	0.67	0.035	mg/kg wet							
2-Nitroaniline	< 0.020	0.33	0.020	mg/kg wet							
2-Nitrophenol	< 0.036	0.67	0.036	mg/kg wet							
3,3´-Dichlorobenzidine	< 0.39	1.6	0.39	mg/kg wet							
3-Nitroaniline	< 0.033	0.33	0.033	mg/kg wet							
4,6-Dinitro-2-methylphenol	< 0.074	0.67	0.074	mg/kg wet							
4-Bromophenyl phenyl ether	< 0.017	0.33	0.017	mg/kg wet							
4-Chloro-3-methylphenol	< 0.040	0.67	0.040	mg/kg wet							
4-Chloroaniline	< 0.11	0.67	0.11	mg/kg wet							
4-Chlorophenyl phenyl ether	< 0.023	0.33	0.023	mg/kg wet							
4-Methylphenol	< 0.027	0.67	0.027	mg/kg wet							
4-Nitroaniline	< 0.023	0.33	0.023	mg/kg wet							
4-Nitrophenol	< 0.099	0.67	0.099	mg/kg wet							
Acenaphthene	< 0.028	0.33	0.028	mg/kg wet							
Acenaphthylene	< 0.023	0.33	0.023	mg/kg wet							
Aniline	< 0.090	0.67	0.090	mg/kg wet							
Anthracene	< 0.025	0.33	0.025	mg/kg wet							
Benzidine	< 0.72	2.5	0.72	mg/kg wet							
Benzo (a) anthracene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (a) pyrene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (b) fluoranthene	< 0.034	0.33	0.034	mg/kg wet							
Benzo (g,h,i) perylene	< 0.030	0.33	0.030	mg/kg wet							

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4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904032
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/28/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1804 - EPA 3545 ASE Extraction											
Blank (B9I1804-BLK1)					Prepared & Analyzed: 09/18/09						
Benzo (k) fluoranthene	< 0.031	0.33	0.031	mg/kg wet							
Benzoic acid	< 0.058	0.33	0.058	mg/kg wet							
Benzyl alcohol	< 0.12	0.67	0.12	mg/kg wet							
Bis(2-chloroethoxy)methane	< 0.021	0.33	0.021	mg/kg wet							
Bis(2-chloroethyl)ether	< 0.024	0.33	0.024	mg/kg wet							
Bis(2-chloroisopropyl)ether	< 0.022	0.33	0.022	mg/kg wet							
Bis(2-ethylhexyl)phthalate	< 0.020	0.33	0.020	mg/kg wet							
Butyl benzyl phthalate	< 0.021	0.33	0.021	mg/kg wet							
Carbazole	< 0.022	0.33	0.022	mg/kg wet							
Chrysene	< 0.033	0.33	0.033	mg/kg wet							
Dibenz (a,h) anthracene	< 0.034	0.33	0.034	mg/kg wet							
Dibenzofuran	< 0.019	0.33	0.019	mg/kg wet							
Diethyl phthalate	< 0.015	0.33	0.015	mg/kg wet							
Dimethyl phthalate	< 0.018	0.33	0.018	mg/kg wet							
Di-n-butyl phthalate	< 0.037	0.33	0.037	mg/kg wet							
Di-n-octyl phthalate	< 0.025	0.33	0.025	mg/kg wet							
Fluoranthene	< 0.024	0.33	0.024	mg/kg wet							
Fluorene	< 0.018	0.33	0.018	mg/kg wet							
Hexachlorobenzene	< 0.016	0.33	0.016	mg/kg wet							
Hexachlorobutadiene	< 0.033	0.33	0.033	mg/kg wet							
Hexachlorocyclopentadiene	< 0.041	0.33	0.041	mg/kg wet							
Hexachloroethane	< 0.028	0.33	0.028	mg/kg wet							
Indeno (1,2,3-cd) pyrene	< 0.032	0.33	0.032	mg/kg wet							
Isophorone	< 0.017	0.33	0.017	mg/kg wet							
Naphthalene	< 0.029	0.33	0.029	mg/kg wet							
Nitrobenzene	< 0.030	0.33	0.030	mg/kg wet							
N-Nitrosodimethylamine	< 0.032	0.33	0.032	mg/kg wet							
N-Nitrosodi-n-propylamine	< 0.025	0.33	0.025	mg/kg wet							
N-Nitrosodiphenylamine	< 0.018	0.33	0.018	mg/kg wet							
Pentachlorophenol	< 0.096	0.67	0.096	mg/kg wet							
Phenanthrene	< 0.019	0.33	0.019	mg/kg wet							
Phenol	< 0.057	0.67	0.057	mg/kg wet							
Pyrene	< 0.023	0.33	0.023	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	*4.42*			*mg/kg wet*	*6.67*		*66.3*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*3.70*			*mg/kg wet*	*6.67*		*55.5*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*3.91*			*mg/kg wet*	*6.67*		*58.7*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.00*			*mg/kg wet*	*6.67*		*60.0*	*49.1-86.9*			
Surrogate: Phenol-d6	*4.20*			*mg/kg wet*	*6.67*		*63.0*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*4.12*			*mg/kg wet*	*6.67*		*61.9*	*43.6-112*			

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LEGEND Technical Services, Inc.
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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904032
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/28/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1804 - EPA 3545 ASE Extraction											
LCS (B9I1804-BS1)					Prepared & Analyzed: 09/18/09						
1,2,4-Trichlorobenzene	4.11	0.33	0.027	mg/kg wet	6.67		61.6	50.7-82.1			
1,4-Dichlorobenzene	3.59	0.33	0.024	mg/kg wet	6.67		53.8	44-77			
2,4-Dinitrotoluene	4.56	0.33	0.021	mg/kg wet	6.67		68.5	56.7-81.7			
2-Chlorophenol	4.19	0.67	0.038	mg/kg wet	6.67		62.8	52.3-88.2			
4-Chloro-3-methylphenol	4.49	0.67	0.040	mg/kg wet	6.67		67.3	53.4-87			
4-Nitrophenol	4.84	0.67	0.099	mg/kg wet	6.67		72.6	55.7-87.1			
Anthracene	4.79	0.33	0.025	mg/kg wet	6.67		71.9	65.3-92			
Benzo (a) anthracene	5.07	0.33	0.027	mg/kg wet	6.67		76.1	69-95.3			
Benzo (a) pyrene	5.03	0.33	0.027	mg/kg wet	6.67		75.5	68.5-98.2			
Chrysene	4.96	0.33	0.033	mg/kg wet	6.67		74.4	68.6-94.2			
Fluoranthene	4.76	0.33	0.024	mg/kg wet	6.67		71.4	64.3-94.6			
Fluorene	4.55	0.33	0.018	mg/kg wet	6.67		68.2	61.9-89.4			
N-Nitrosodi-n-propylamine	4.54	0.33	0.025	mg/kg wet	6.67		68.1	55.5-91.1			
Pentachlorophenol	4.02	0.67	0.096	mg/kg wet	6.67		60.3	54.7-74.6			
Phenanthrene	4.66	0.33	0.019	mg/kg wet	6.67		70.0	64.3-90.9			
Phenol	4.17	0.67	0.057	mg/kg wet	6.67		62.5	49.7-85.4			
Surrogate: 2,4,6-Tribromophenol	*5.08*			*mg/kg wet*	*6.67*		*76.3*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*4.05*			*mg/kg wet*	*6.67*		*60.8*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*4.32*			*mg/kg wet*	*6.67*		*64.8*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.36*			*mg/kg wet*	*6.67*		*65.4*	*49.1-86.9*			
Surrogate: Phenol-d6	*4.69*			*mg/kg wet*	*6.67*		*70.3*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*4.55*			*mg/kg wet*	*6.67*		*68.2*	*43.6-112*			
Matrix Spike (B9I1804-MS1)		**Source: 0904029-09**			Prepared & Analyzed: 09/18/09						
1,2,4-Trichlorobenzene	5.16	0.40	0.033	mg/kg dry	8.12	<0.40	63.6	51-77.5			
1,4-Dichlorobenzene	4.43	0.40	0.029	mg/kg dry	8.12	<0.40	54.6	41.7-73.4			
2,4-Dinitrotoluene	5.55	0.40	0.025	mg/kg dry	8.12	<0.40	68.4	50-84.8			
2-Chlorophenol	5.22	0.81	0.046	mg/kg dry	8.12	<0.81	64.3	47.8-90.8			
4-Chloro-3-methylphenol	5.53	0.81	0.048	mg/kg dry	8.12	<0.81	68.1	48.4-95.1			
4-Nitrophenol	6.14	0.81	0.12	mg/kg dry	8.12	<0.81	75.7	44-105			
Anthracene	5.94	0.40	0.030	mg/kg dry	8.12	<0.40	73.2	60.2-97.3			
Benzo (a) anthracene	6.17	0.40	0.033	mg/kg dry	8.12	<0.40	76.0	59.8-102			
Benzo (a) pyrene	6.05	0.40	0.033	mg/kg dry	8.12	<0.40	74.5	57.2-105			
Chrysene	6.08	0.40	0.040	mg/kg dry	8.12	<0.40	74.8	59.2-102			
Fluoranthene	5.72	0.40	0.029	mg/kg dry	8.12	<0.40	70.5	50.4-108			
Fluorene	5.67	0.40	0.022	mg/kg dry	8.12	<0.40	69.8	57.8-94.4			
N-Nitrosodi-n-propylamine	5.61	0.40	0.030	mg/kg dry	8.12	<0.40	69.1	46.2-96.2			
Pentachlorophenol	5.49	0.81	0.12	mg/kg dry	8.12	<0.81	67.6	53.6-80.4			
Phenanthrene	5.82	0.40	0.023	mg/kg dry	8.12	<0.40	71.7	58.4-97.5			
Phenol	5.20	0.81	0.069	mg/kg dry	8.12	<0.81	64.1	44-88.5			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904032
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/28/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1804 - EPA 3545 ASE Extraction											
Matrix Spike (B9I1804-MS1)		**Source: 0904029-09**			Prepared & Analyzed: 09/18/09						
Surrogate: 2,4,6-Tribromophenol	*6.39*			*mg/kg dry*	*8.12*		*78.7*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*5.12*			*mg/kg dry*	*8.12*		*63.1*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*5.41*			*mg/kg dry*	*8.12*		*66.7*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*5.54*			*mg/kg dry*	*8.12*		*68.2*	*49.1-86.9*			
Surrogate: Phenol-d6	*5.89*			*mg/kg dry*	*8.12*		*72.5*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.64*			*mg/kg dry*	*8.12*		*69.5*	*43.6-112*			
Matrix Spike Dup (B9I1804-MSD1)		**Source: 0904029-09**			Prepared & Analyzed: 09/18/09						
1,2,4-Trichlorobenzene	5.25	0.40	0.033	mg/kg dry	8.12	<0.40	64.6	51-77.5	1.59	15.7	
1,4-Dichlorobenzene	4.53	0.40	0.029	mg/kg dry	8.12	<0.40	55.9	41.7-73.4	2.26	14.7	
2,4-Dinitrotoluene	5.39	0.40	0.025	mg/kg dry	8.12	<0.40	66.4	50-84.8	2.92	20.5	
2-Chlorophenol	5.29	0.81	0.046	mg/kg dry	8.12	<0.81	65.2	47.8-90.8	1.36	19.8	
4-Chloro-3-methylphenol	5.50	0.81	0.048	mg/kg dry	8.12	<0.81	67.8	48.4-95.1	0.438	18.7	
4-Nitrophenol	5.90	0.81	0.12	mg/kg dry	8.12	<0.81	72.7	44-105	3.97	30.9	
Anthracene	5.87	0.40	0.030	mg/kg dry	8.12	<0.40	72.3	60.2-97.3	1.22	15.1	
Benzo (a) anthracene	5.96	0.40	0.033	mg/kg dry	8.12	<0.40	73.4	59.8-102	3.48	19.6	
Benzo (a) pyrene	5.93	0.40	0.033	mg/kg dry	8.12	<0.40	73.1	57.2-105	1.97	19.4	
Chrysene	5.94	0.40	0.040	mg/kg dry	8.12	<0.40	73.1	59.2-102	2.34	19.6	
Fluoranthene	5.65	0.40	0.029	mg/kg dry	8.12	<0.40	69.5	50.4-108	1.31	21	
Fluorene	5.62	0.40	0.022	mg/kg dry	8.12	<0.40	69.2	57.8-94.4	0.775	15.8	
N-Nitrosodi-n-propylamine	5.71	0.40	0.030	mg/kg dry	8.12	<0.40	70.3	46.2-96.2	1.70	17.1	
Pentachlorophenol	5.31	0.81	0.12	mg/kg dry	8.12	<0.81	65.4	53.6-80.4	3.39	22.4	
Phenanthrene	5.78	0.40	0.023	mg/kg dry	8.12	<0.40	71.2	58.4-97.5	0.804	14.3	
Phenol	5.32	0.81	0.069	mg/kg dry	8.12	<0.81	65.6	44-88.5	2.30	21.5	
Surrogate: 2,4,6-Tribromophenol	*6.22*			*mg/kg dry*	*8.12*		*76.6*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*5.21*			*mg/kg dry*	*8.12*		*64.2*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*5.42*			*mg/kg dry*	*8.12*		*66.8*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*5.59*			*mg/kg dry*	*8.12*		*68.8*	*49.1-86.9*			
Surrogate: Phenol-d6	*5.96*			*mg/kg dry*	*8.12*		*73.4*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.48*			*mg/kg dry*	*8.12*		*67.6*	*43.6-112*			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904032
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/28/09

Notes and Definitions

M2	Matrix spike recovery was low, the associated blank spike recovery was acceptable.
J	Parameter was present between the MDL and RL and should be considered an estimated value
<	Less than value listed
dry	Sample results reported on a dry weight basis
NA	Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL	Method Detection Limit
RL	Reporting Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
MS	Matrix Spike = Laboratory Fortified Matrix (LFM)

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U904052

Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number: 23/19-B05.07 SIRI 300

Project Name: UMA SSI/RI

Sample Origination State: MN (use two letter postal state abbreviation)

COC Number: № 29018

COC 1 of 1

Project Manager: SME

Project QC Contact: KSN

Sampled by: ESC

Laboratory: Legend

	Location	Start Depth	Stop Depth	Depth Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	VOCs (HCl) #1	SVOCs (unpreserved) #2	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	General (unpreserved) #3	Diesel Range Organics (HCl)	Nutrients (H_2SO_4) #4	VOCs (tared MeOH) #1	GRO, BTEX (tared MeOH) #1	DRO (tared unpreserved)	Metals (unpreserved)	SVOCs (unpreserved) #2	% Solids (plastic vial, unpres.)	Total Number Of Containers	
01	1. SOC4-GP2(1-3)	1	3	ft	9-11-09	0915		X	X														1	1	2	SVOCs, See attached list
02	2. SOC4-GP3(1-3)	1	3	ft	9-11-09	1000		X	X														1	1	2	"
03	3. SOC 1 - GP3 (Dup) ~~SOC4-GP1~~ 9/14/09	—	—	—	9-11-09	1115	X		X					1											1	PPL Metals (FF) See attached list
04	4. FB-1 (Groundwater)	—	—	—	9-11-09	1200	X				X	3	1	1											5	VOCs, SVOCs, PPL Metals (FF) - See attached list
05	5. FB-2 (Geoprobe)	—	—	—	9-11-09	1205	X				X	3	1	1											5	"
	6.																									
	7.																									
	8.																									
	9.																									
	10.																									

Number of Containers/Preservative — Water / Soil

Common Parameter/Container - Preservation Key

#1 - Volatile Organics = BTEX, GRO, TPH, 8260 Full List
#2 - Semivolatile Organics = PAHs, PCP, Dioxins, 8270 Full List, Herbicide/Pesticide/PCBs
#3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
#4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
[signature]	Y (N)	9/14/09	1000			
Relinquished By:	On Ice? Y N	Date	Time	Received by: [signature]	Date 9/14/09	Time 13:15

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other: _____

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

OR, custody seals, 8.7°C

H:\LGS\TDFORMS\Chain Of Custody Form 2009 RLG Rev. 09/01/09

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [1]	Minnesota Tier SLV [4]	Minnesota SRV [5]	Minnesota Tier II Industrial SRV [6]
Metals										
Antimony	7440-36-0	Soil/Solid	6010B	0.0055	0.50	mg/kg	--	2.7	12	100
Arsenic	7440-38-2	Soil/Solid	6010B	0.10	0.50	mg/kg	--	15.1	9	20
Beryllium	7440-41-7	Soil/Solid	6010B	0.011	0.25	mg/kg	--	1.4	55	230
Cadmium	7440-43-9	Soil/Solid	6010B	0.025	0.25	mg/kg	--	4.4	25	200
Chromium	7440-47-3	Soil/Solid	6010B	0.012	0.50	mg/kg	--	1000000 (8)	44000 (8)	100000 (8)
Copper	7440-50-8	Soil/Solid	6010B	0.070	1.0	mg/kg	--	400	100	9000
Lead	7439-92-1	Soil/Solid	6010B	0.034	1.0	mg/kg	--	525	300	700
Nickel	7440-02-0	Soil/Solid	6010B	0.014	0.25	mg/kg	--	88	560	2500
Selenium	7782-49-2	Soil/Solid	6010B	0.11	1.0	mg/kg	--	1.5	160	1300
Silver	7440-22-4	Soil/Solid	6010B	0.0090	0.25	mg/kg	--	3.9	160	1300
Thallium	7440-28-0	Soil/Solid	6010B	0.13	2.0	mg/kg	--	--	3	21
Zinc	7440-66-6	Soil/Solid	6010B	0.22	1.0	mg/kg	--	1500	8700	75000
Metals										
Antimony	7440-36-0	Water/Liquid	6020	0.046	0.500	ug/L	6	--	--	--
Arsenic	7440-38-2	Water/Liquid	6010B	2	10.000	ug/L	--	--	--	--
Beryllium	7440-41-7	Water/Liquid	6020	0.027	0.5000	ug/L	0.08	--	--	--
Cadmium	7440-43-9	Water/Liquid	6010B	0.099	1.0000	ug/L	4	--	--	--
Chromium	7440-47-3	Water/Liquid	6010B	0.24	10.000	ug/L	100 (5)	--	--	--
Copper	7440-50-8	Water/Liquid	6010B	1.4	20.000	ug/L	--	--	--	--
Lead	7439-92-1	Water/Liquid	6010B	0.68	3.0000	ug/L	--	--	--	--
Nickel	7440-02-0	Water/Liquid	6010B	0.28	5.0000	ug/L	100	--	--	--
Selenium	7782-49-2	Water/Liquid	6010B	2.2	20.000	ug/L	30	--	--	--
Silver	7440-22-4	Water/Liquid	6010B	0.18	5.0000	ug/L	30	--	--	--
Thallium	7440-28-0	Water/Liquid	6020	0.0081	0.500	ug/L	0.5	--	--	--
Zinc	7440-66-6	Water/Liquid	6010B	4.4	20.000	ug/L	2000	--	--	--
Mercury										
Mercury	7439-97-6	Soil/Solid	7471A	0.0031	0.10	mg/kg	--	1.5 C	0.5	1.5
Mercury	7439-97-6	Water/Liquid	7470A	0.000031	0.00020	mg/L	--	--	--	--
Nitrate-Nitrite Nitrogen as N (Braun)										
N+N Nitrogen as N	NA	Water/Liquid	SM4500-NO3-F	0.007	0.02	mg/L	10 (3)	--	--	--
Total Kjeldahl Nitrogen (Braun)										
TKN as N	NA	Water/Liquid	SM4500-NH3-C	0.17	0.5	mg/L	--	--	--	--
Perchlorate (TA)										
Perchlorate	NA	Water/Liquid	314	0.36	4	ug/L	--	--	--	--
Nitrocellulose (TA)										
Nitrocellulose	NA	Soil/Solid	353.2Mod	0.78	0.5	mg/kg	--	--	--	--
Nitrocellulose (TA)										
Nitrocellulose	NA	Water/Liquid	353.2Mod	0.124	0.5	mg/L	--	--	--	--
Organochlorine Pesticides										
4,4'-DDD	72-54-8	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	56	125
4,4'-DDE	72-55-9	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	40	80
4,4'-DDT	50-29-3	Soil/Solid	8081A	0.0020	0.040	mg/kg	--	--	15	88
a-Chlordane	5103-71-9	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	--	--
Aldrin	309-00-2	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	1	2
alpha-BHC	319-84-6	Soil/Solid	8081A	0.0011	0.040	mg/kg	--	--	2	3.5
beta-BHC	319-85-7	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	7	15
delta-BHC	319-86-8	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	--	--
Dieldrin	60-57-1	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	0.8	2
Endosulfan I	959-98-8	Soil/Solid	8081A	0.0013	0.040	mg/kg	--	--	--	--
Endosulfan II	891-86-1	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
Endosulfan sulfate	1031-07-8	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
Endrin	72-20-8	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	8	56
Endrin aldehyde	7421-93-4	Soil/Solid	8081A	0.0041	0.040	mg/kg	--	--	--	--
Endrin ketone	53494-70-5	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
gamma-BHC (Lindane)	58-89-9	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	9	15
gamma-Chlordane	5566-34-7	Soil/Solid	8081A	0.0017	0.040	mg/kg	--	--	--	--
Heptachlor	76-44-8	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	2	3.5
Heptachlor epoxide	1024-57-3	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	0.4	3
Methoxychlor	72-43-5	Soil/Solid	8081A	0.0019	0.040	mg/kg	--	--	11	50
Toxaphene	8001-35-2	Soil/Solid	8081A	0.015	0.080	mg/kg	--	--	13	28
Organochlorine Pesticides										
4,4'-DDD	72-54-8	Water/Liquid	8081A	0.026	0.40	ug/L	1	--	--	--
4,4'-DDE	72-55-9	Water/Liquid	8081A	0.037	0.40	ug/L	1	--	--	--
4,4'-DDT	50-29-3	Water/Liquid	8081A	0.031	0.40	ug/L	1	--	--	--
a-Chlordane	5103-71-9	Water/Liquid	8081A	0.030	0.40	ug/L	--	--	--	--
Aldrin	309-00-2	Water/Liquid	8081A	0.036	0.40	ug/L	--	--	--	--
alpha-BHC	319-84-6	Water/Liquid	8081A	0.026	0.40	ug/L	--	--	--	--
beta-BHC	319-85-7	Water/Liquid	8081A	0.026	0.40	ug/L	--	--	--	--
delta-BHC	319-86-8	Water/Liquid	8081A	0.023	0.40	ug/L	--	--	--	--
Dieldrin	60-57-1	Water/Liquid	8081A	0.031	0.40	ug/L	0.006 (4)	--	--	--
Endosulfan I	959-98-8	Water/Liquid	8081A	0.032	0.40	ug/L	--	--	--	--
Endosulfan II	891-86-1	Water/Liquid	8081A	0.035	0.40	ug/L	--	--	--	--

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [1]	Minnesota Tier SLV [4]	Minnesota SRV [5]	Minnesota Tier II Industrial SRV [6]
Endosulfan sulfate	1031-07-8	Water/Liquid	8081A	0.034	0.40	ug/L	--	--	--	--
Endrin	72-20-8	Water/Liquid	8081A	0.029	0.40	ug/L	--	--	--	--
Endrin aldehyde	7421-93-4	Water/Liquid	8081A	0.044	0.40	ug/L	--	--	--	--
Endrin ketone	53494-70-5	Water/Liquid	8081A	0.031	0.40	ug/L	--	--	--	--
gamma-BHC (Lindane)	58-89-9	Water/Liquid	8081A	0.024	0.40	ug/L	--	--	--	--
gamma-Chlordane	5566-34-7	Water/Liquid	8081A	0.030	0.40	ug/L	--	--	--	--
Heptachlor	76-44-8	Water/Liquid	8081A	0.028	0.40	ug/L	0.08	--	--	--
Heptachlor epoxide	1024-57-3	Water/Liquid	8081A	0.030	0.40	ug/L	0.04	--	--	--
Methoxychlor	72-43-5	Water/Liquid	8081A	0.032	0.40	ug/L	--	--	--	--
Toxaphene	8001-35-2	Water/Liquid	8081A	0.069	1.00	ug/L	0.3	--	--	--
MDA List 1 Pesticides (Braun)										
EPTC	759-94-4	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Propachlor	1918-16-7	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Ethalfluralin	55283-68-6	Soil/Solid	8270C	0.014	0.04	mg/kg	--	--	--	--
Deisopropylatrazine	1007-28-9	Soil/Solid	8270C	0.0080	0.04	mg/kg	--	--	--	--
Trifluralin	1582-09-8	Soil/Solid	8270C	0.014	0.04	mg/kg	--	--	--	--
Desethylatrazine	6190-65-4	Soil/Solid	8270C	0.011	0.04	mg/kg	--	--	--	--
Phorate	298-02-2	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Prometon	1610-18-0	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Simazine	122-34-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Atrazine	1912-24-9	Soil/Solid	8270C	0.0100	0.04	mg/kg	--	--	--	--
Propazine	139-40-2	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Terbufos	13071-79-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	0.6	3.5
Fonofos	944-22-9	Soil/Solid	8270C	0.0040	0.04	mg/kg	--	--	--	--
Triallate	2303-17-5	Soil/Solid	8270C	0.0050	0.04	mg/kg	--	--	--	--
Metribuzin	21087-64-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Dimethenamid	87674-68-8	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Acetochlor	34256-82-1	Soil/Solid	8270C	0.010	0.04	mg/kg	--	--	--	--
Alachlor	15972-60-8	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Cyanazine	21725-46-2	Soil/Solid	8270C	0.0080	0.04	mg/kg	--	--	--	--
Metolachlor	51218-45-2	Soil/Solid	8270C	0.0030	0.04	mg/kg	--	--	435	3300
Chlorpyrifos	2921-88-2	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Pendimethalin	40487-42-1	Soil/Solid	8270C	0.016	0.04	mg/kg	--	--	--	--
MDA List 1 Pesticides (Braun)										
EPTC	759-94-4	Water/Liquid	8270C	0.22	0.50	ug/L	200	--	--	--
Propachlor	1918-16-7	Water/Liquid	8270C	0.14	0.50	ug/L	--	--	--	--
Ethalfluralin	55283-68-6	Water/Liquid	8270C	0.47	0.50	ug/L	300 (1)	--	--	--
Deisopropylatrazine	1007-28-9	Water/Liquid	8270C	0.26	0.50	ug/L	--	--	--	--
Trifluralin	1582-09-8	Water/Liquid	8270C	0.21	0.50	ug/L	5 (1)	--	--	--
Desethylatrazine	6190-65-4	Water/Liquid	8270C	0.29	0.50	ug/L	--	--	--	--
Phorate	298-02-2	Water/Liquid	8270C	0.58	1.00	ug/L	1 (1)	--	--	--
Prometon	1610-18-0	Water/Liquid	8270C	0.29	0.50	ug/L	100	--	--	--
Simazine	122-34-9	Water/Liquid	8270C	0.32	0.50	ug/L	4 (3)	--	--	--
Atrazine	1912-24-9	Water/Liquid	8270C	0.24	0.50	ug/L	3 (3)	--	--	--
Propazine	139-40-2	Water/Liquid	8270C	0.21	0.50	ug/L	10 (1)	--	--	--
Terbufos	13071-79-9	Water/Liquid	8270C	0.54	1.00	ug/L	0.2 (1)	--	--	--
Fonofos	944-22-9	Water/Liquid	8270C	0.30	0.50	ug/L	10 (1)	--	--	--
Triallate	2303-17-5	Water/Liquid	8270C	0.34	0.50	ug/L	9 (1)	--	--	--
Metribuzin	21087-64-9	Water/Liquid	8270C	0.35	0.50	ug/L	200	--	--	--
Dimethenamid	87674-68-8	Water/Liquid	8270C	0.24	0.50	ug/L	40 (1)	--	--	--
Acetochlor	34256-82-1	Water/Liquid	8270C	0.25	0.50	ug/L	9 (4)	--	--	--
Alachlor	15972-60-8	Water/Liquid	8270C	0.19	0.50	ug/L	5 (4)	--	--	--
Cyanazine	21725-46-2	Water/Liquid	8270C	0.48	0.50	ug/L	1	--	--	--
Metolachlor	51218-45-2	Water/Liquid	8270C	0.28	0.50	ug/L	300 (4)	--	--	--
Chlorpyrifos	2921-88-2	Water/Liquid	8270C	0.34	0.50	ug/L	20 (1)	--	--	--
Pendimethalin	40487-42-1	Water/Liquid	8270C	0.25	0.50	ug/L	--	--	--	--
MDA List 2 Pesticides (Braun)										
Dicamba	1918-00-9	Soil/Solid	8270C	0.008	0.50	mg/kg	--	--	--	--
MCPA	94-74-6	Soil/Solid	8270C	0.014	0.50	mg/kg	--	--	16	110
2,4-D	94-75-7	Soil/Solid	8270C	0.012	0.50	mg/kg	--	--	285	2200
Trichlopyr	55336-06-3	Soil/Solid	8270C	0.008	0.50	mg/kg	--	--	--	--
Pentachlorophenol	87-86-5	Soil/Solid	8270C	0.007	0.50	mg/kg	--	--	80	120
2,4,5-T.P.	93-72-1	Soil/Solid	8270C	0.007	0.50	mg/kg	--	--	--	--
2,4,5-T	93-76-5	Soil/Solid	8270C	0.009	0.50	mg/kg	--	--	290	2150
Dinoseb	88-85-7	Soil/Solid	8270C	0.005	0.50	mg/kg	--	--	--	--
2,4-D.B.	94-82-6	Soil/Solid	8270C	0.011	0.50	mg/kg	--	--	226	1750
Bentazone	25057-89-0	Soil/Solid	8270C	0.009	0.50	mg/kg	--	--	--	--
Picloram	1918-02-1	Soil/Solid	8270C	0.011	0.50	mg/kg	--	--	2000	15000
MDA List 2 Pesticides (Braun)										
Dicamba	1918-00-9	Water/Liquid	8270C	0.38	0.50	ug/L	200	--	--	--

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Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [1]	Minnesota Tier SLV [2]	Minnesota SRV [3]	Minnesota Tier II Industrial SRV [4]
MCPA	94-74-6	Water/Liquid	8270C	0.29	0.30	ug/L	--	--	--	--
2,4-D	94-75-7	Water/Liquid	8270C	0.26	0.50	ug/L	70	--	--	--
Trichlopyr	55336-06-3	Water/Liquid	8270C	0.41	0.50	ug/L	300 (1)	--	--	--
Pentachlorophenol	87-86-5	Water/Liquid	8270C	0.39	0.50	ug/L	1 (3)	--	--	--
2,4,5-T.P.	93-72-1	Water/Liquid	8270C	0.28	0.50	ug/L	50 (3)	--	--	--
2,4,5-T	93-76-5	Water/Liquid	8270C	0.31	0.50	ug/L	--	--	--	--
Dinoseb	88-85-7	Water/Liquid	8270C	0.34	0.50	ug/L	7 (1)	--	--	--
2,4-D.B.	94-82-6	Water/Liquid	8270C	0.15	0.50	ug/L	60 (1)	--	--	--
Bentazone	25057-89-0	Water/Liquid	8270C	0.22	0.50	ug/L	200 (1)	--	--	--
Picloram	1918-02-1	Water/Liquid	8270C	0.25	0.50	ug/L	500	--	--	--
PCBs										
Aroclor 1016	12674-11-2	Soil/Solid	8082	0.017	0.20	mg/kg	--	--	--	--
Aroclor 1221	11104-28-2	Soil/Solid	8082	0.039	0.20	mg/kg	--	--	--	--
Aroclor 1232	11141-16-5	Soil/Solid	8082	0.010	0.20	mg/kg	--	--	--	--
Aroclor 1242	53469-21-9	Soil/Solid	8082	0.016	0.20	mg/kg	--	--	--	--
Aroclor 1248	12672-29-6	Soil/Solid	8082	0.0078	0.20	mg/kg	--	--	--	--
Aroclor 1254	11097-69-1	Soil/Solid	8082	0.0071	0.20	mg/kg	--	--	--	--
Aroclor 1260	11096-82-5	Soil/Solid	8082	0.015	0.20	mg/kg	--	--	--	--
PCBs										
Aroclor 1016	12674-11-2	Water/Liquid	8082	0.41	2.0	ug/L	--	--	--	--
Aroclor 1221	11104-28-2	Water/Liquid	8082	0.36	2.0	ug/L	--	--	--	--
Aroclor 1232	11141-16-5	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1242	53469-21-9	Water/Liquid	8082	0.58	2.0	ug/L	--	--	--	--
Aroclor 1248	12672-29-6	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1254	11097-69-1	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1260	11096-82-5	Water/Liquid	8082	0.32	2.0	ug/L	--	--	--	--
VOCs - Soil/Solid										
1,1,1,2-Tetrachloroethane	630-20-6	Soil/Solid	8260B	0.019	0.25	mg/kg	--	1.4	31	51
1,1,1-Trichloroethane	71-55-6	Soil/Solid	8260B	0.0098	0.25	mg/kg	--	3.5	140	472
1,1,2,2-Tetrachloroethane	79-34-5	Soil/Solid	8260B	0.012	0.25	mg/kg	--	0.005	3.5	6.5
1,1,2-Trichloroethane	79-00-5	Soil/Solid	8260B	0.022	0.25	mg/kg	--	0.010	9	14
1,1,2-Trichlorotrifluoroethane	76-13-1	Soil/Solid	8260B	0.052	0.25	mg/kg	--	2580	3745	5430
1,1-Dichloroethane	75-34-3	Soil/Solid	8260B	0.013	0.25	mg/kg	--	0.18	34	55
1,1-Dichloroethene	75-35-4	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.025	20	60
1,1-Dichloropropene	563-58-6	Soil/Solid	8260B	0.021	0.25	mg/kg	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	Soil/Solid	8260B	0.063	0.50	mg/kg	--	--	--	--
1,2,3-Trichloropropane	96-18-4	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.35	--	--
1,2,4-Trichlorobenzene	120-82-1	Soil/Solid	8260B	0.052	0.50	mg/kg	--	0.31	200	985
1,2,4-Trimethylbenzene	95-63-6	Soil/Solid	8260B	0.013	0.25	mg/kg	--	--	8	25
1,2-Dibromo-3-chloropropane	96-12-8	Soil/Solid	8260B	0.079	0.50	mg/kg	--	0.001	--	--
1,2-Dibromoethane (EDB)	106-93-4	Soil/Solid	8260B	0.0056	0.25	mg/kg	--	0.00001	0.3	0.5
1,2-Dichlorobenzene	95-50-1	Soil/Solid	8260B	0.0055	0.25	mg/kg	--	8.1	26	75
1,2-Dichloroethane	107-06-2	Soil/Solid	8260B	0.030	0.25	mg/kg	--	0.010	4	6
1,2-Dichloropropane	78-87-5	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.011	4	6
1,3,5-Trimethylbenzene	108-67-8	Soil/Solid	8260B	0.0077	0.25	mg/kg	--	--	3	10
1,3-Dichlorobenzene	541-73-1	Soil/Solid	8260B	0.015	0.25	mg/kg	--	4.2	26	200
1,3-Dichloropropane	142-28-9	Soil/Solid	8260B	0.017	0.25	mg/kg	--	--	--	--
1,4-Dichlorobenzene	106-46-7	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.13	30	50
2,2-Dichloropropane	594-20-7	Soil/Solid	8260B	0.034	0.50	mg/kg	--	--	--	--
2-Butanone	78-93-3	Soil/Solid	8260B	0.069	2.0	mg/kg	--	--	5500	19000
2-Chlorotoluene	95-49-8	Soil/Solid	8260B	0.015	0.25	mg/kg	--	--	436	436
4-Chlorotoluene	106-43-4	Soil/Solid	8260B	0.015	0.25	mg/kg	--	--	--	--
Acetone	67-64-1	Soil/Solid	8260B	0.16	2.0	mg/kg	--	0.7	340	1000
Allyl chloride	107-05-1	Soil/Solid	8260B	0.016	0.50	mg/kg	--	0.032	--	--
Benzene	71-43-2	Soil/Solid	8260B	0.0070	0.25	mg/kg	--	0.034	6	10
Bromobenzene	108-86-1	Soil/Solid	8260B	0.017	0.25	mg/kg	--	--	--	--
Bromochloromethane	74-97-5	Soil/Solid	8260B	0.021	0.25	mg/kg	--	0.15	--	--
Bromodichloromethane	75-27-4	Soil/Solid	8260B	0.020	0.25	mg/kg	--	0.013	10	17
Bromoform	75-25-2	Soil/Solid	8260B	0.015	0.50	mg/kg	--	0.14	370	650
Bromomethane	74-83-9	Soil/Solid	8260B	0.012	0.50	mg/kg	--	0.5	0.7	2
Carbon tetrachloride	56-23-5	Soil/Solid	8260B	0.018	0.25	mg/kg	--	0.023	0.3	0.9
Chlorobenzene	108-90-7	Soil/Solid	8260B	0.011	0.25	mg/kg	--	1.1	11	32
Chloroethane	75-00-3	Soil/Solid	8260B	0.045	0.25	mg/kg	--	--	1000	3000
Chloroform	67-66-3	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.17	2.5	4
Chloromethane	74-87-3	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.006	8	23
cis-1,2-Dichloroethene	156-59-2	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.14	8	22
cis-1,3-Dichloropropene	10061-01-5	Soil/Solid	8260B	0.0098	0.25	mg/kg	--	0.005 M	--	--
Dibromochloromethane	124-48-1	Soil/Solid	8260B	0.014	0.25	mg/kg	--	0.03	12	20
Dibromomethane	74-95-3	Soil/Solid	8260B	0.021	0.25	mg/kg	--	--	260	1860
Dichlorodifluoromethane	75-71-8	Soil/Solid	8260B	0.035	0.50	mg/kg	--	38	16	50
Dichlorofluoromethane	75-43-4	Soil/Solid	8260B	0.014	0.25	mg/kg	--	--	--	--
Ethyl ether	60-29-7	Soil/Solid	8260B	0.017	0.50	mg/kg	--	1.2	--	--
Ethylbenzene	100-41-4	Soil/Solid	8260B	0.011	0.25	mg/kg	--	4.7	200	200
Hexachlorobutadiene	87-68-3	Soil/Solid	8260B	0.11	1.0	mg/kg	--	25	6	37
Isopropylbenzene	98-82-8	Soil/Solid	8260B	0.019	0.25	mg/kg	--	18	30	87

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Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits	Minnesota Tier SLV	Minnesota SRV	Minnesota Tier II Industrial SRV
m,p-Xylene	108-38-3/ 106-42-3	Soil/Solid	8260B	0.024	0.50	mg/kg	--	45 M	45 M	130 M
Methyl isobutyl ketone	108-10-1	Soil/Solid	8260B	0.031	0.50	mg/kg	--	0.42	1700	9000
Methyl tert-butyl ether	1634-04-4	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.027	--	--
Methylene chloride	75-09-2	Soil/Solid	8260B	0.043	1.0	mg/kg	--	0.068	97	158
Naphthalene	91-20-3	Soil/Solid	8260B	0.060	0.50	mg/kg	--	7.5	10	28
n-Butylbenzene	104-51-8	Soil/Solid	8260B	0.012	0.25	mg/kg	--	--	30	92
n-Propylbenzene	103-65-1	Soil/Solid	8260B	0.013	0.25	mg/kg	--	--	30	93
o-Xylene	95-47-6	Soil/Solid	8260B	0.015	0.25	mg/kg	--	45 M	45 M	130 M
p-Isopropyltoluene	99-87-6	Soil/Solid	8260B	0.014	0.25	mg/kg	--	--	--	--
sec-Butylbenzene	135-98-8	Soil/Solid	8260B	0.012	0.25	mg/kg	--	--	25	70
Styrene	100-42-5	Soil/Solid	8260B	0.012	0.25	mg/kg	--	1.9	210	600
tert-Butylbenzene	98-06-6	Soil/Solid	8260B	0.0073	0.25	mg/kg	--	--	30	90
Tetrachloroethene	127-18-4	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.068	72	131
Tetrahydrofuran	109-99-9	Soil/Solid	8260B	0.068	2.0	mg/kg	--	0.16	--	--
Toluene	108-88-3	Soil/Solid	8260B	0.0063	0.25	mg/kg	--	6.4	107	305
trans-1,2-Dichloroethene	156-60-5	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.27	11	33
trans-1,3-Dichloropropene	10061-02-6	Soil/Solid	8260B	0.013	0.25	mg/kg	--	0.005 M	--	--
Trichloroethene	79-01-6	Soil/Solid	8260B	0.013	0.25	mg/kg	--	0.14	29	46
Trichlorofluoromethane	75-69-4	Soil/Solid	8260B	0.035	0.25	mg/kg	--	22	67	195
Vinyl chloride	75-01-4	Soil/Solid	8260B	0.031	0.25	mg/kg	--	0.001	0.8	2.2
VOCs - Water/Liquid										
1,1,1,2-Tetrachloroethane	630-20-6	Water/Liquid	8260B	0.083	1.0	ug/L	70	--	--	--
1,1,1-Trichloroethane	71-55-6	Water/Liquid	8260B	0.098	1.0	ug/L	9000 (4)	--	--	--
1,1,2,2-Tetrachloroethane	79-34-5	Water/Liquid	8260B	0.084	1.0	ug/L	2	--	--	--
1,1,2-Trichloroethane	79-00-5	Water/Liquid	8260B	0.15	1.0	ug/L	3	--	--	--
1,1,2-Trichlorotrifluoroethane	76-13-1	Water/Liquid	8260B	0.10	1.0	ug/L	200000	--	--	--
1,1-Dichloroethane	75-34-3	Water/Liquid	8260B	0.094	1.0	ug/L	100 (7)	--	--	--
1,1-Dichloroethene	75-35-4	Water/Liquid	8260B	0.10	1.0	ug/L	200	--	--	--
1,1-Dichloropropene	563-58-6	Water/Liquid	8260B	0.099	1.0	ug/L	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	Water/Liquid	8260B	0.40	5.0	ug/L	--	--	--	--
1,2,3-Trichloropropane	96-18-4	Water/Liquid	8260B	0.13	2.5	ug/L	40	--	--	--
1,2,4-Trichlorobenzene	120-82-1	Water/Liquid	8260B	0.52	5.0	ug/L	--	--	--	--
1,2,4-Trimethylbenzene	95-63-6	Water/Liquid	8260B	0.052	1.0	ug/L	--	--	--	--
1,2-Dibromo-3-chloropropane	96-12-8	Water/Liquid	8260B	1.2	5.0	ug/L	--	--	--	--
1,2-Dibromoethane (EDB)	106-93-4	Water/Liquid	8260B	0.10	2.5	ug/L	0.004	--	--	--
1,2-Dichlorobenzene	95-50-1	Water/Liquid	8260B	0.12	1.0	ug/L	600	--	--	--
1,2-Dichloroethane	107-06-2	Water/Liquid	8260B	0.084	1.0	ug/L	4	--	--	--
1,2-Dichloropropane	78-87-5	Water/Liquid	8260B	0.13	1.0	ug/L	5	--	--	--
1,3,5-Trimethylbenzene	108-67-8	Water/Liquid	8260B	0.066	1.0	ug/L	100 (4) (6)	--	--	--
1,3-Dichlorobenzene	541-73-1	Water/Liquid	8260B	0.094	1.0	ug/L	--	--	--	--
1,3-Dichloropropane	142-28-9	Water/Liquid	8260B	0.074	1.0	ug/L	--	--	--	--
1,4-Dichlorobenzene	106-46-7	Water/Liquid	8260B	0.053	1.0	ug/L	10	--	--	--
2,2-Dichloropropane	594-20-7	Water/Liquid	8260B	0.23	5.0	ug/L	--	--	--	--
2-Butanone	78-93-3	Water/Liquid	8260B	0.58	20	ug/L	4000	--	--	--
2-Chlorotoluene	95-49-8	Water/Liquid	8260B	0.077	1.0	ug/L	--	--	--	--
4-Chlorotoluene	106-43-4	Water/Liquid	8260B	0.059	1.0	ug/L	--	--	--	--
Acetone	67-64-1	Water/Liquid	8260B	0.69	20	ug/L	700	--	--	--
Allyl chloride	107-05-1	Water/Liquid	8260B	0.28	5.0	ug/L	30	--	--	--
Benzene	71-43-2	Water/Liquid	8260B	0.047	1.0	ug/L	2 (4)	--	--	--
Bromobenzene	108-86-1	Water/Liquid	8260B	0.084	1.0	ug/L	--	--	--	--
Bromochloromethane	74-97-5	Water/Liquid	8260B	0.075	1.0	ug/L	--	--	--	--
Bromodichloromethane	75-27-4	Water/Liquid	8260B	0.13	1.0	ug/L	8	--	--	--
Bromoform	75-25-2	Water/Liquid	8260B	0.074	5.0	ug/L	40	--	--	--
Bromomethane	74-83-9	Water/Liquid	8260B	0.26	5.0	ug/L	10	--	--	--
Carbon tetrachloride	56-23-5	Water/Liquid	8260B	0.074	1.0	ug/L	3	--	--	--
Chlorobenzene	108-90-7	Water/Liquid	8260B	0.025	1.0	ug/L	100	--	--	--
Chloroethane	75-00-3	Water/Liquid	8260B	0.26	2.5	ug/L	--	--	--	--
Chloroform	67-66-3	Water/Liquid	8260B	0.098	1.0	ug/L	30 (4) (6)	--	--	--
Chloromethane	74-87-3	Water/Liquid	8260B	0.098	2.5	ug/L	--	--	--	--
cis-1,2-Dichloroethene	156-59-2	Water/Liquid	8260B	0.12	1.0	ug/L	50 (4)	--	--	--
cis-1,3-Dichloropropene	10061-01-5	Water/Liquid	8260B	0.11	1.0	ug/L	--	--	--	--
Dibromochloromethane	124-48-1	Water/Liquid	8260B	0.084	2.5	ug/L	10	--	--	--
Dibromomethane	74-95-3	Water/Liquid	8260B	0.14	2.5	ug/L	--	--	--	--
Dichlorodifluoromethane	75-71-8	Water/Liquid	8260B	0.39	5.0	ug/L	700 (4)	--	--	--
Dichlorofluoromethane	75-43-4	Water/Liquid	8260B	0.070	1.0	ug/L	--	--	--	--
Ethyl ether	60-29-7	Water/Liquid	8260B	0.10	5.0	ug/L	1000	--	--	--
Ethylbenzene	100-41-4	Water/Liquid	8260B	0.055	1.0	ug/L	700	--	--	--
Hexachlorobutadiene	87-68-3	Water/Liquid	8260B	0.58	10	ug/L	1	--	--	--
Isopropylbenzene	98-82-8	Water/Liquid	8260B	0.068	1.0	ug/L	300	--	--	--
m,p-Xylene	108-38-3 106-42-3	Water/Liquid	8260B	0.14	2.0	ug/L	10000 M	--	--	--
Methyl isobutyl ketone	108-10-1	Water/Liquid	8260B	0.13	5.0	ug/L	300	--	--	--
Methyl tert-butyl ether	1634-04-4	Water/Liquid	8260B	0.079	1.0	ug/L	--	--	--	--

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [a]	Minnesota Tier SLV [a]	Minnesota SRV [a]	Minnesota Tier II Industrial SRV [a]
Methylene chloride	75-09-2	Water/Liquid	8260B	0.29	5.0	ug/L	5 (3)	--	--	--
Naphthalene	91-20-3	Water/Liquid	8260B	0.38	5.0	ug/L	300	--	--	--
n-Butylbenzene	104-51-8	Water/Liquid	8260B	0.094	2.5	ug/L	--	--	--	--
n-Propylbenzene	103-65-1	Water/Liquid	8260B	0.079	1.0	ug/L	--	--	--	--
o-Xylene	95-47-6	Water/Liquid	8260B	0.074	1.0	ug/L	10000 M	--	--	--
p-Isopropyltoluene	99-87-6	Water/Liquid	8260B	0.087	2.5	ug/L	--	--	--	--
sec-Butylbenzene	135-98-8	Water/Liquid	8260B	0.030	1.0	ug/L	--	--	--	--
Styrene	100-42-5	Water/Liquid	8260B	0.072	1.0	ug/L	--	--	--	--
tert-Butylbenzene	98-06-6	Water/Liquid	8260B	0.046	1.0	ug/L	--	--	--	--
Tetrachloroethene	127-18-4	Water/Liquid	8260B	0.10	1.0	ug/L	5 (3)	--	--	--
Tetrahydrofuran	109-99-9	Water/Liquid	8260B	0.76	20	ug/L	--	--	--	--
Toluene	108-88-3	Water/Liquid	8260B	0.036	1.0	ug/L	1000	--	--	--
trans-1,2-Dichloroethene	156-60-5	Water/Liquid	8260B	0.14	1.0	ug/L	100	--	--	--
trans-1,3-Dichloropropene	10061-02-6	Water/Liquid	8260B	0.082	1.0	ug/L	--	--	--	--
Trichloroethene	79-01-6	Water/Liquid	8260B	0.097	1.0	ug/L	5 (3)	--	--	--
Trichlorofluoromethane	75-69-4	Water/Liquid	8260B	0.17	1.0	ug/L	2000	--	--	--
Vinyl chloride	75-01-4	Water/Liquid	8260B	0.10	1.0	ug/L	0.2 (4)	--	--	--
SemiVolatile Organics										
1,2,4-Trichlorobenzene	120-82-1	Soil/Solid	8270C	0.020	0.33	mg/kg	--	0.31	200	985
1,2-Dichlorobenzene	95-50-1	Soil/Solid	8270C	0.012	0.33	mg/kg	--	8.1	26	75
1,2-Diphenylhydrazine as Azobenzene	103-33-3	Soil/Solid	8270C	0.039	0.33	mg/kg	--	--	--	--
1,3-Dichlorobenzene	541-73-1	Soil/Solid	8270C	0.014	0.33	mg/kg	--	4.2	26	200
1,4-Dichlorobenzene	106-46-7	Soil/Solid	8270C	0.013	0.33	mg/kg	--	0.13	30	50
2,3,4,6-Tetrachlorophenol	58-90-2	Soil/Solid	8270C	0.072	0.67	mg/kg	--	--	636	3700
2,4,5-Trichlorophenol	95-95-4	Soil/Solid	8270C	0.039	0.67	mg/kg	--	--	1920	10600
2,4,6-Trichlorophenol	88-06-2	Soil/Solid	8270C	0.081	0.67	mg/kg	--	0.21	595	1060
2,4-Dichlorophenol	120-83-2	Soil/Solid	8270C	0.046	0.67	mg/kg	--	0.076	46	230
2,4-Dimethylphenol	105-67-9	Soil/Solid	8270C	0.079	0.67	mg/kg	--	0.34	390	1925
2,4-Dinitrophenol	51-28-5	Soil/Solid	8270C	0.064	0.67	mg/kg	--	0.014	--	--
2,4-Dinitrotoluene	121-14-2	Soil/Solid	8270C	0.044	0.33	mg/kg	--	0.001	50	355
2,6-Dichlorophenol	87-65-0	Soil/Solid	8270C	0.042	0.67	mg/kg	--	--	--	--
2,6-Dinitrotoluene	606-20-2	Soil/Solid	8270C	0.040	0.33	mg/kg	--	0.001	25	175
2-Chloronaphthalene	91-58-7	Soil/Solid	8270C	0.018	0.33	mg/kg	--	--	--	--
2-Chlorophenol	95-57-8	Soil/Solid	8270C	0.029	0.67	mg/kg	--	0.26	--	--
2-Methylnaphthalene	91-57-6	Soil/Solid	8270C	0.021	0.33	mg/kg	--	--	100	369
2-Methylphenol	95-48-7	Soil/Solid	8270C	0.019	0.67	mg/kg	--	0.064	75	352
2-Nitroaniline	88-74-4	Soil/Solid	8270C	0.041	0.33	mg/kg	--	--	--	--
2-Nitrophenol	88-75-5	Soil/Solid	8270C	0.040	0.67	mg/kg	--	0.60	--	--
3,3'-Dichlorobenzidine	91-94-1	Soil/Solid	8270C	0.21	1.6	mg/kg	--	0.36	25	50
3-Nitroaniline	99-09-2	Soil/Solid	8270C	0.041	0.33	mg/kg	--	--	--	--
4,6-Dinitro-2-methylphenol	534-52-1	Soil/Solid	8270C	0.097	0.67	mg/kg	--	--	--	--
4-Bromophenyl phenyl ether	101-55-3	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	--	--
4-Chloro-3-methylphenol	59-50-7	Soil/Solid	8270C	0.075	0.67	mg/kg	--	--	--	--
4-Chloroaniline	106-47-8	Soil/Solid	8270C	0.022	0.67	mg/kg	--	--	--	--
4-Chlorophenyl phenyl ether	7005-72-3	Soil/Solid	8270C	0.024	0.33	mg/kg	--	--	--	--
4-Methylphenol	106-44-5	Soil/Solid	8270C	0.017	0.67	mg/kg	--	0.033	10	59
4-Nitroaniline	100-01-6	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	--	--
4-Nitrophenol	100-02-7	Soil/Solid	8270C	0.081	0.67	mg/kg	--	--	--	--
Acenaphthene	83-32-9	Soil/Solid	8270C	0.020	0.33	mg/kg	--	50	1200	5260
Acenaphthylene	208-96-8	Soil/Solid	8270C	0.031	0.33	mg/kg	--	--	--	--
Aniline	62-53-3	Soil/Solid	8270C	0.034	0.67	mg/kg	--	--	--	--
Anthracene	120-12-7	Soil/Solid	8270C	0.043	0.33	mg/kg	--	942	7880	45400
Benzidine	92-87-5	Soil/Solid	8270C	0.71	2.5	mg/kg	--	--	--	--
Benzo (a) anthracene	56-55-3	Soil/Solid	8270C	0.045	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (a) pyrene	50-32-8	Soil/Solid	8270C	0.049	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (b) fluoranthene	205-99-2	Soil/Solid	8270C	0.048	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (g,h,i) perylene	191-24-2	Soil/Solid	8270C	0.050	0.33	mg/kg	--	--	--	--
Benzo (k) fluoranthene	207-08-9	Soil/Solid	8270C	0.053	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzoic acid	65-85-0	Soil/Solid	8270C	0.036	0.33	mg/kg	--	30	50000	100000
Benzyl alcohol	100-51-6	Soil/Solid	8270C	0.11	0.67	mg/kg	--	--	8700	56000
Bis(2-chloroethoxy)methane	111-91-1	Soil/Solid	8270C	0.021	0.33	mg/kg	--	--	--	--
Bis(2-chloroethyl)ether	111-44-4	Soil/Solid	8270C	0.013	0.33	mg/kg	--	0.001	2.5	5
Bis(2-chloroisopropyl)ether	39638-32-9	Soil/Solid	8270C	0.017	0.33	mg/kg	--	--	--	--
Bis(2-ethylhexyl)phthalate	117-81-7	Soil/Solid	8270C	0.046	0.33	mg/kg	--	40	570	2100
Butyl benzyl phthalate	85-68-7	Soil/Solid	8270C	0.047	0.33	mg/kg	--	28	580	3700
Carbazole	86-74-8	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	700	1310
Chrysene	218-01-9	Soil/Solid	8270C	0.049	0.33	mg/kg	--	10.2 T	2 T	3 T
Dibenz (a,h) anthracene	53-70-3	Soil/Solid	8270C	0.053	0.33	mg/kg	--	10.2 T	2 T	3 T
Dibenzofuran	132-64-9	Soil/Solid	8270C	0.022	0.33	mg/kg	--	--	104	810

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits	Minnesota Tier SLV *	Minnesota SRV *	Minnesota Tier II Industrial SRV *
Diethyl phthalate	84-66-2	Soil/Solid	8270C	0.045	0.33	mg/kg	--	18	--	--
Dimethyl phthalate	131-11-3	Soil/Solid	8270C	0.043	0.33	mg/kg	--	172	--	--
Di-n-butyl phthalate	84-74-2	Soil/Solid	8270C	0.054	0.33	mg/kg	--	23	2440	16300
Di-n-octyl phthalate	117-84-0	Soil/Solid	8270C	0.056	0.33	mg/kg	--	--	520	3700
Fluoranthene	206-44-0	Soil/Solid	8270C	0.047	0.33	mg/kg	--	295	1080	6800
Fluorene	86-73-7	Soil/Solid	8270C	0.011	0.33	mg/kg	--	47	850	4120
Hexachlorobenzene	118-74-1	Soil/Solid	8270C	0.041	0.33	mg/kg	--	0.32	5	9
Hexachlorobutadiene	87-68-3	Soil/Solid	8270C	0.035	0.33	mg/kg	--	25	6	37
Hexachlorocyclopentadiene	77-47-4	Soil/Solid	8270C	0.030	0.33	mg/kg	--	4.4	2	6
Hexachloroethane	67-72-1	Soil/Solid	8270C	0.018	0.33	mg/kg	--	0.050	--	--
Indeno (1,2,3-cd) pyrene	193-39-5	Soil/Solid	8270C	0.042	0.33	mg/kg	--	10.2 T	2 T	3 T
Isophorone	78-59-1	Soil/Solid	8270C	0.018	0.33	mg/kg	--	0.16	--	--
Naphthalene	91-20-3	Soil/Solid	8270C	0.015	0.33	mg/kg	--	7.5	10	28
Nitrobenzene	98-95-3	Soil/Solid	8270C	0.014	0.33	mg/kg	--	--	--	--
N-Nitrosodimethylamine	62-75-9	Soil/Solid	8270C	0.028	0.33	mg/kg	--	0.82	--	--
N-Nitrosodi-n-propylamine	621-64-7	Soil/Solid	8270C	0.014	0.33	mg/kg	--	--	0.7	1.2
N-Nitrosodiphenylamine ***	86-30-6	Soil/Solid	8270C	0.045	0.33	mg/kg	--	0.88	1950	3720
Diphenylamine ***	122-39-4	Soil/Solid	8270C	--	--	--	--	--	--	--
Pentachlorophenol	87-86-5	Soil/Solid	8270C	0.081	0.67	mg/kg	--	0.034	80	120
Phenanthrene	85-01-8	Soil/Solid	8270C	0.026	0.33	mg/kg	--	--	--	--
Phenol	108-95-2	Soil/Solid	8270C	0.027	0.67	mg/kg	--	7.8	1500	20203
Pyrene	129-00-0	Soil/Solid	8270C	0.046	0.33	mg/kg	--	272	890	5800
2,4-Dinitrotoluene (DNT)	121-14-2	Soil/Solid	8270C	0.063	3.0	mg/kg	--	0.001	50	355
2,6-Dinitrotoluene (DNT)	606-20-2	Soil/Solid	8270C	0.13	3.0	mg/kg	--	0.001	25	175
SemiVolatile Organics										
1,2,4-Trichlorobenzene	120-82-1	Water/Liquid	8270C	0.28	10	ug/L	--	--	--	--
1,2-Dichlorobenzene	95-50-1	Water/Liquid	8270C	0.21	10	ug/L	600	--	--	--
1,2-Diphenylhydrazine as Azobenzene	103-33-3	Water/Liquid	8270C	0.20	10	ug/L	--	--	--	--
1,3-Dichlorobenzene	541-73-1	Water/Liquid	8270C	0.21	10	ug/L	--	--	--	--
1,4-Dichlorobenzene	106-46-7	Water/Liquid	8270C	0.18	10	ug/L	10	--	--	--
2,3,4,6-Tetrachlorophenol	58-90-2	Water/Liquid	8270C	1.0	10	ug/L	--	--	--	--
2,4,5-Trichlorophenol	95-95-4	Water/Liquid	8270C	0.85	10	ug/L	--	--	--	--
2,4,6-Trichlorophenol	88-06-2	Water/Liquid	8270C	0.89	10	ug/L	30	--	--	--
2,4-Dichlorophenol	120-83-2	Water/Liquid	8270C	0.78	10	ug/L	20	--	--	--
2,4-Dimethylphenol	105-67-9	Water/Liquid	8270C	0.78	10	ug/L	100	--	--	--
2,4-Dinitrophenol	51-28-5	Water/Liquid	8270C	0.50	10	ug/L	10	--	--	--
2,4-Dinitrotoluene	121-14-2	Water/Liquid	8270C	0.49	10	ug/L	0.5 (2)	--	--	--
2,6-Dichlorophenol	87-65-0	Water/Liquid	8270C	0.78	10	ug/L	--	--	--	--
2,6-Dinitrotoluene	606-20-2	Water/Liquid	8270C	0.39	10	ug/L	0.5 (2)	--	--	--
2-Chloronaphthalene	91-58-7	Water/Liquid	8270C	0.20	10	ug/L	--	--	--	--
2-Chlorophenol	95-57-8	Water/Liquid	8270C	0.66	10	ug/L	30	--	--	--
2-Methylnaphthalene	91-57-6	Water/Liquid	8270C	0.32	10	ug/L	--	--	--	--
2-Methylphenol	95-48-7	Water/Liquid	8270C	0.77	10	ug/L	30	--	--	--
2-Nitroaniline	88-74-4	Water/Liquid	8270C	0.92	10	ug/L	--	--	--	--
2-Nitrophenol	88-75-5	Water/Liquid	8270C	1.0	10	ug/L	--	--	--	--
3,3'-Dichlorobenzidine	91-94-1	Water/Liquid	8270C	7.1	25	ug/L	0.8	--	--	--
3-Nitroaniline	99-09-2	Water/Liquid	8270C	0.95	10	ug/L	--	--	--	--
4,6-Dinitro-2-methylphenol	534-52-1	Water/Liquid	8270C	0.90	10	ug/L	--	--	--	--
4-Bromophenyl phenyl ether	101-55-3	Water/Liquid	8270C	0.19	10	ug/L	--	--	--	--
4-Chloro-3-methylphenol	59-50-7	Water/Liquid	8270C	0.79	10	ug/L	--	--	--	--
4-Chloroaniline	106-47-8	Water/Liquid	8270C	1.0	10	ug/L	--	--	--	--
4-Chlorophenol	106-48-9	Water/Liquid	8270C	NA	NA	ug/L	--	--	--	--
4-Chlorophenyl phenyl ether	7005-72-3	Water/Liquid	8270C	0.15	10	ug/L	--	--	--	--
4-Methylphenol	106-44-5	Water/Liquid	8270C	0.82	10	ug/L	3	--	--	--
4-Nitroaniline	100-01-6	Water/Liquid	8270C	0.63	10	ug/L	--	--	--	--
4-Nitrophenol	100-02-7	Water/Liquid	8270C	1.2	10	ug/L	--	--	--	--
Acenaphthene	83-32-9	Water/Liquid	8270C	0.15	10	ug/L	400	--	--	--
Acenaphthylene	208-96-8	Water/Liquid	8270C	0.17	10	ug/L	--	--	--	--
Aniline	62-53-3	Water/Liquid	8270C	0.97	10	ug/L	--	--	--	--
Anthracene	120-12-7	Water/Liquid	8270C	0.18	10	ug/L	2000	--	--	--
Benzidine	92-87-5	Water/Liquid	8270C	23	100	ug/L	--	--	--	--
Benzo (a) anthracene	56-55-3	Water/Liquid	8270C	0.18	10	ug/L	--	--	--	--
Benzo (a) pyrene	50-32-8	Water/Liquid	8270C	0.22	10	ug/L	--	--	--	--
Benzo (b) fluoranthene	205-99-2	Water/Liquid	8270C	0.18	10	ug/L	--	--	--	--
Benzo (g,h,i) perylene	191-24-2	Water/Liquid	8270C	0.24	10	ug/L	--	--	--	--
Benzo (k) fluoranthene	207-08-9	Water/Liquid	8270C	0.21	10	ug/L	--	--	--	--
Benzoic acid	65-85-0	Water/Liquid	8270C	0.75	10	ug/L	30000	--	--	--
Benzyl alcohol	100-51-6	Water/Liquid	8270C	0.66	10	ug/L	--	--	--	--
Bis(2-chloroethoxy)methane	111-91-1	Water/Liquid	8270C	0.21	10	ug/L	--	--	--	--

P:\Mpls\23 MN\19\2319805 UMore park environmental\WorkFiles\Phase II Investigation WO#1 and #6\Phase II Work Plan\SSI_RI Work Plan\SAP\V2.0\Part 2-QAPP\Tables\Table 1

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [3]	Minnesota Tier SLV [4]	Minnesota SRV [5]	Minnesota Tier II Industrial SRV [6]
Bis(2-chloroethyl)ether	111-44-4	Water/Liquid	8270C	0.21	10	ug/L	0.3	--	--	--
Bis(2-chloroisopropyl)ether	39638-32-9	Water/Liquid	8270C	0.14	10	ug/L	--	--	--	--
Bis(2-ethylhexyl)phthalate	117-81-7	Water/Liquid	8270C	0.45	10	ug/L	20 (1)	--	--	--
Butyl benzyl phthalate	85-68-7	Water/Liquid	8270C	0.33	10	ug/L	100	--	--	--
Carbazole	86-74-8	Water/Liquid	8270C	0.24	10	ug/L	--	--	--	--
Chrysene	218-01-9	Water/Liquid	8270C	0.15	10	ug/L	--	--	--	--
Dibenz (a,h) anthracene	53-70-3	Water/Liquid	8270C	0.25	10	ug/L	--	--	--	--
Dibenzofuran	132-64-9	Water/Liquid	8270C	0.27	10	ug/L	--	--	--	--
Diethyl phthalate	84-66-2	Water/Liquid	8270C	0.32	10	ug/L	6000	--	--	--
Dimethyl phthalate	131-11-3	Water/Liquid	8270C	0.26	10	ug/L	70000	--	--	--
Di-n-butyl phthalate	84-74-2	Water/Liquid	8270C	0.33	10	ug/L	700	--	--	--
Di-n-octyl phthalate	117-84-0	Water/Liquid	8270C	0.42	10	ug/L	--	--	--	--
Fluoranthene	206-44-0	Water/Liquid	8270C	0.23	10	ug/L	300	--	--	--
Fluorene	86-73-7	Water/Liquid	8270C	0.16	10	ug/L	300	--	--	--
Hexachlorobenzene	118-74-1	Water/Liquid	8270C	0.15	10	ug/L	0.2	--	--	--
Hexachlorobutadiene	87-68-3	Water/Liquid	8270C	0.34	10	ug/L	1	--	--	--
Hexachlorocyclopentadiene	77-47-4	Water/Liquid	8270C	0.22	10	ug/L	--	--	--	--
Hexachloroethane	67-72-1	Water/Liquid	8270C	0.30	10	ug/L	--	--	--	--
Indeno (1,2,3-cd) pyrene	193-39-5	Water/Liquid	8270C	0.19	10	ug/L	--	--	--	--
Isophorone	78-59-1	Water/Liquid	8270C	0.23	10	ug/L	100	--	--	--
Naphthalene	91-20-3	Water/Liquid	8270C	0.19	10	ug/L	300	--	--	--
Nitrobenzene	98-95-3	Water/Liquid	8270C	0.26	10	ug/L	--	--	--	--
N-Nitrosodimethylamine	62-75-9	Water/Liquid	8270C	0.30	10	ug/L	--	--	--	--
N-Nitrosodi-n-propylamine	621-64-7	Water/Liquid	8270C	0.28	10	ug/L	--	--	--	--
N-Nitrosodiphenylamine ***	86-30-6	Water/Liquid	8270C	0.27	10	ug/L	70	--	--	--
Diphenylamine ***	122-39-4	Water/Liquid	8270C	--	--	--	--	--	--	--
Pentachlorophenol	87-86-5	Water/Liquid	8270C	0.99	10	ug/L	1 (3)	--	--	--
Phenanthrene	85-01-8	Water/Liquid	8270C	0.13	10	ug/L	--	--	--	--
Phenol	108-95-2	Water/Liquid	8270C	0.59	10	ug/L	4000	--	--	--
Pyrene	129-00-0	Water/Liquid	8270C	0.24	10	ug/L	200	--	--	--

Notes:
M - the values with this notation indicate the limit is for all combined isomers of this compound
T - the values with this notation represent the limit for the total carcinogenic PAHs as BaP
C - Mercury as mercuric chloride
(TA) - Legend Technical Services, Inc. will subcontract this analysis to Test America, West Sacramento, California.
(Braun) - Legend Technical Services, Inc. will subcontract this analysis to Braun Intertec, Minneapolis, MN.
(1) Not a HRL but a Health Based Value (HBV)
(2) (SRL)-Specific Risk Level (water concentration which corresponds to a riskof 1E-5.
(3) Not a HRL but an EPA Maximum Contaminant Level (MCL).
(4) Value is representative of the lowest exposure duration published in the 2008 Health Risk Limits.
(5) Value represents the criteria for Chromium, hexavalent.
(6) Set at short-term HRL.
(7) Not a HRL, but a Risk Assessment Advice (RAA).
(8) Value represents the criteria for Chromium, Trivalent.
[3] - Minnesota Department of Health, Health Risk Limit (HRL) unless noted otherwise.
[4] - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Soil Leaching Value (SLV)
[5] - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Soil Reference Value (SRV)
[6] - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Tier II Industrial SRV.

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September 29, 2009

Ms. Kelly Neppl
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0904075
RE: 23190B05.07

Enclosed are the results of analyses for samples received by the laboratory on 09/15/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of this report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

Terri Olson
Client Manager II
tolson@legend-group.com

Barb Rutten
Report Reviewer
brutten@legend-group.com

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904075
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/29/09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WSW-207607	0904075-01	Water	09/15/09 12:35	09/15/09 17:04
WSW-208402	0904075-02	Water	09/15/09 14:00	09/15/09 17:04
WSW-208405	0904075-03	Water	09/15/09 15:15	09/15/09 17:04
FB-1	0904075-04	Water	09/15/09 15:15	09/15/09 17:04
Trip Blank	0904075-05	Water	09/15/09 00:00	09/15/09 17:04

Shipping Container Information

Default Cooler Temperature (°C): 2.2

Received on ice: Yes
Temperature blank was present
Received on ice pack: No
Received on melt water: No
Ambient: No
Acceptable (IH/ISO only): No
Custody seals: No

Case Narrative:

MN Certification does not apply to dichlorofluoromethane, tetrahydrofuran, and 1,1,2-trichlorotrifluoroethane in the 8260B analysis or to carbazole in the 8270C analysis.

Beryllium recoveries in the MS/MSD samples for 6020 batch B9I2003 were below laboratory control limits. Recoveries in the LCS/LCSD samples and the corresponding RPDs were within limits. The MS/MSD source sample was not associated with this work order.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

UMP-019498

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904075
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/29/09

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WSW-207607 (0904075-01) Water Sampled: 09/15/09 12:35 Received: 09/15/09 17:04										
Antimony	**1.8**	0.50	0.046	ug/L	1	B9I2003	09/20/09	09/24/09	EPA 6020	
Arsenic	<10	10	2.0	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B	
Beryllium	**1.7**	0.50	0.027	ug/L	1	B9I2003	09/20/09	09/24/09	EPA 6020	
Cadmium	<1.0	1.0	0.099	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	
Copper	<20	20	1.4	ug/L	1	"	"	"	"	
Lead	<3.0	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B9I2109	09/21/09	09/22/09	EPA 7470A	
Nickel	<5.0	5.0	0.28	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B	
Selenium	<20	20	2.2	ug/L	1	"	"	"	"	
Silver	<5.0	5.0	0.18	ug/L	1	"	"	"	"	
Thallium	**1.7**	0.50	0.0081	ug/L	1	B9I2003	09/20/09	09/24/09	EPA 6020	
Zinc	**42**	20	4.4	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B	
WSW-208402 (0904075-02) Water Sampled: 09/15/09 14:00 Received: 09/15/09 17:04										
Antimony	<0.046	0.50	0.046	ug/L	1	B9I2003	09/20/09	09/24/09	EPA 6020	
Arsenic	<10	10	2.0	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B	
Beryllium	<0.027	0.50	0.027	ug/L	1	B9I2003	09/20/09	09/24/09	EPA 6020	
Cadmium	<1.0	1.0	0.099	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	
Copper	**210**	20	1.4	ug/L	1	"	"	"	"	
Lead	**18**	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B9I2109	09/21/09	09/22/09	EPA 7470A	
Nickel	<5.0	5.0	0.28	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B	
Selenium	<20	20	2.2	ug/L	1	"	"	"	"	
Silver	<5.0	5.0	0.18	ug/L	1	"	"	"	"	
Thallium	**0.074**	0.50	0.0081	ug/L	1	B9I2003	09/20/09	09/24/09	EPA 6020	J
Zinc	**180**	20	4.4	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B	
WSW-208405 (0904075-03) Water Sampled: 09/15/09 15:15 Received: 09/15/09 17:04										
Antimony	**0.15**	0.50	0.046	ug/L	1	B9I2003	09/20/09	09/24/09	EPA 6020	J
Arsenic	<10	10	2.0	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B	
Beryllium	<0.027	0.50	0.027	ug/L	1	B9I2003	09/20/09	09/24/09	EPA 6020	
Cadmium	<1.0	1.0	0.099	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	
Copper	<20	20	1.4	ug/L	1	"	"	"	"	
Lead	<3.0	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B9I2109	09/21/09	09/22/09	EPA 7470A	
Nickel	**6.7**	5.0	0.28	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904075
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/29/09

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WSW-208405 (0904075-03) Water Sampled: 09/15/09 15:15 Received: 09/15/09 17:04										
Selenium	<20	20	2.2	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B	
Silver	<5.0	5.0	0.18	ug/L	1	"	"	"	"	
Thallium	**0.33**	0.50	0.0081	ug/L	1	B9I2003	09/20/09	09/24/09	EPA 6020	J
Zinc	**140**	20	4.4	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B	
FB-1 (0904075-04) Water Sampled: 09/15/09 15:15 Received: 09/15/09 17:04										
Antimony	<0.046	0.50	0.046	ug/L	1	B9I2003	09/20/09	09/24/09	EPA 6020	
Arsenic	<10	10	2.0	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B	
Beryllium	<0.027	0.50	0.027	ug/L	1	B9I2003	09/20/09	09/24/09	EPA 6020	
Cadmium	<1.0	1.0	0.099	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	
Copper	<20	20	1.4	ug/L	1	"	"	"	"	
Lead	<3.0	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B9I2109	09/21/09	09/22/09	EPA 7470A	
Nickel	<5.0	5.0	0.28	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B	
Selenium	<20	20	2.2	ug/L	1	"	"	"	"	
Silver	<5.0	5.0	0.18	ug/L	1	"	"	"	"	
Thallium	**0.14**	0.50	0.0081	ug/L	1	B9I2003	09/20/09	09/24/09	EPA 6020	J
Zinc	<20	20	4.4	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904075
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/29/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WSW-207607 (0904075-01) Water Sampled: 09/15/09 12:35 Received: 09/15/09 17:04										
1,2,4-Trichlorobenzene	<0.18	9.3	0.18	ug/L	1	B9I2201	09/22/09	09/23/09	EPA 8270C	
1,2-Dichlorobenzene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.56	9.3	0.56	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	9.3	0.74	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<1.5	9.3	1.5	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<0.93	9.3	0.93	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<0.31	9.3	0.31	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
2-Chlorophenol	<0.42	9.3	0.42	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<0.61	9.3	0.61	ug/L	1	"	"	"	"	
2-Methylphenol	<0.58	9.3	0.58	ug/L	1	"	"	"	"	
2-Nitroaniline	<0.67	9.3	0.67	ug/L	1	"	"	"	"	
2-Nitrophenol	<0.83	9.3	0.83	ug/L	1	"	"	"	"	
3,3´-Dichlorobenzidine	<6.8	23	6.8	ug/L	1	"	"	"	"	
3-Nitroaniline	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.60	9.3	0.60	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.51	9.3	0.51	ug/L	1	"	"	"	"	
4-Chloroaniline	<2.1	9.3	2.1	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
4-Methylphenol	<0.73	9.3	0.73	ug/L	1	"	"	"	"	
4-Nitroaniline	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
4-Nitrophenol	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Acenaphthene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
Acenaphthylene	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
Aniline	<2.0	9.3	2.0	ug/L	1	"	"	"	"	
Anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzidine	<17	93	17	ug/L	1	"	"	"	"	
Benzo (a) anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzo (a) pyrene	<0.27	9.3	0.27	ug/L	1	"	"	"	"	
Benzo (b) fluoranthene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904075
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/29/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WSW-207607 (0904075-01) Water Sampled: 09/15/09 12:35 Received: 09/15/09 17:04										
Benzo (k) fluoranthene	<0.29	9.3	0.29	ug/L	1	B9I2201	09/22/09	09/23/09	EPA 8270C	
Benzoic acid	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Benzyl alcohol	<0.50	9.3	0.50	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.17	9.3	0.17	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.18	9.3	0.18	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.40	9.3	0.40	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Carbazole	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Chrysene	<0.25	9.3	0.25	ug/L	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dibenzofuran	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Diethyl phthalate	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dimethyl phthalate	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<0.35	9.3	0.35	ug/L	1	"	"	"	"	
Fluoranthene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Fluorene	<0.37	9.3	0.37	ug/L	1	"	"	"	"	
Hexachlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Hexachloroethane	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Isophorone	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Naphthalene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Nitrobenzene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<0.88	9.3	0.88	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Pentachlorophenol	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
Phenanthrene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Phenol	<0.53	9.3	0.53	ug/L	1	"	"	"	"	
Pyrene	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*84.2*			*48.5-114 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*75.0*			*41.7-98.4 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*55.0*			*30-93.5 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*77.2*			*47.4-97.8 %*		"	"	"	"	
Surrogate: Phenol-d6	*50.6*			*30-91.5 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*60.9*			*30-108 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904075
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/29/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WSW-208402 (0904075-02) Water Sampled: 09/15/09 14:00 Received: 09/15/09 17:04										
1,2,4-Trichlorobenzene	<0.18	9.3	0.18	ug/L	1	B9I2201	09/22/09	09/23/09	EPA 8270C	
1,2-Dichlorobenzene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.56	9.3	0.56	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	9.3	0.74	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<1.5	9.3	1.5	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<0.93	9.3	0.93	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<0.31	9.3	0.31	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
2-Chlorophenol	<0.42	9.3	0.42	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<0.61	9.3	0.61	ug/L	1	"	"	"	"	
2-Methylphenol	<0.58	9.3	0.58	ug/L	1	"	"	"	"	
2-Nitroaniline	<0.67	9.3	0.67	ug/L	1	"	"	"	"	
2-Nitrophenol	<0.83	9.3	0.83	ug/L	1	"	"	"	"	
3,3´-Dichlorobenzidine	<6.8	23	6.8	ug/L	1	"	"	"	"	
3-Nitroaniline	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.60	9.3	0.60	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.51	9.3	0.51	ug/L	1	"	"	"	"	
4-Chloroaniline	<2.1	9.3	2.1	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
4-Methylphenol	<0.73	9.3	0.73	ug/L	1	"	"	"	"	
4-Nitroaniline	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
4-Nitrophenol	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Acenaphthene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
Acenaphthylene	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
Aniline	<2.0	9.3	2.0	ug/L	1	"	"	"	"	
Anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzidine	<17	93	17	ug/L	1	"	"	"	"	
Benzo (a) anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzo (a) pyrene	<0.27	9.3	0.27	ug/L	1	"	"	"	"	
Benzo (b) fluoranthene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904075
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/29/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WSW-208402 (0904075-02) Water Sampled: 09/15/09 14:00 Received: 09/15/09 17:04										
Benzo (k) fluoranthene	<0.29	9.3	0.29	ug/L	1	B9I2201	09/22/09	09/23/09	EPA 8270C	
Benzoic acid	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Benzyl alcohol	<0.50	9.3	0.50	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.17	9.3	0.17	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.18	9.3	0.18	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.40	9.3	0.40	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Carbazole	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Chrysene	<0.25	9.3	0.25	ug/L	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dibenzofuran	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Diethyl phthalate	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dimethyl phthalate	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<0.35	9.3	0.35	ug/L	1	"	"	"	"	
Fluoranthene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Fluorene	<0.37	9.3	0.37	ug/L	1	"	"	"	"	
Hexachlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Hexachloroethane	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Isophorone	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Naphthalene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Nitrobenzene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<0.88	9.3	0.88	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Pentachlorophenol	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
Phenanthrene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Phenol	<0.53	9.3	0.53	ug/L	1	"	"	"	"	
Pyrene	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*84.3*			*48.5-114 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*74.4*			*41.7-98.4 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*52.9*			*30-93.5 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*76.1*			*47.4-97.8 %*		"	"	"	"	
Surrogate: Phenol-d6	*49.1*			*30-91.5 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*60.2*			*30-108 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904075
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/29/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WSW-208405 (0904075-03) Water Sampled: 09/15/09 15:15 Received: 09/15/09 17:04										
1,2,4-Trichlorobenzene	<0.18	9.3	0.18	ug/L	1	B9I2201	09/22/09	09/23/09	EPA 8270C	
1,2-Dichlorobenzene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.56	9.3	0.56	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	9.3	0.74	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<1.5	9.3	1.5	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<0.93	9.3	0.93	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<0.31	9.3	0.31	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
2-Chlorophenol	<0.42	9.3	0.42	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<0.61	9.3	0.61	ug/L	1	"	"	"	"	
2-Methylphenol	<0.58	9.3	0.58	ug/L	1	"	"	"	"	
2-Nitroaniline	<0.67	9.3	0.67	ug/L	1	"	"	"	"	
2-Nitrophenol	<0.83	9.3	0.83	ug/L	1	"	"	"	"	
3,3´-Dichlorobenzidine	<6.8	23	6.8	ug/L	1	"	"	"	"	
3-Nitroaniline	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.60	9.3	0.60	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.51	9.3	0.51	ug/L	1	"	"	"	"	
4-Chloroaniline	<2.1	9.3	2.1	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
4-Methylphenol	<0.73	9.3	0.73	ug/L	1	"	"	"	"	
4-Nitroaniline	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
4-Nitrophenol	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Acenaphthene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
Acenaphthylene	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
Aniline	<2.0	9.3	2.0	ug/L	1	"	"	"	"	
Anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzidine	<17	93	17	ug/L	1	"	"	"	"	
Benzo (a) anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzo (a) pyrene	<0.27	9.3	0.27	ug/L	1	"	"	"	"	
Benzo (b) fluoranthene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904075
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/29/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WSW-208405 (0904075-03) Water Sampled: 09/15/09 15:15 Received: 09/15/09 17:04										
Benzo (k) fluoranthene	<0.29	9.3	0.29	ug/L	1	B9I2201	09/22/09	09/23/09	EPA 8270C	
Benzoic acid	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Benzyl alcohol	<0.50	9.3	0.50	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.17	9.3	0.17	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.18	9.3	0.18	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.40	9.3	0.40	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Carbazole	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Chrysene	<0.25	9.3	0.25	ug/L	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dibenzofuran	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Diethyl phthalate	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dimethyl phthalate	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<0.35	9.3	0.35	ug/L	1	"	"	"	"	
Fluoranthene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Fluorene	<0.37	9.3	0.37	ug/L	1	"	"	"	"	
Hexachlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Hexachloroethane	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Isophorone	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Naphthalene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Nitrobenzene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<0.88	9.3	0.88	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Pentachlorophenol	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
Phenanthrene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Phenol	<0.53	9.3	0.53	ug/L	1	"	"	"	"	
Pyrene	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*91.5*			*48.5-114 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*79.3*			*41.7-98.4 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*58.5*			*30-93.5 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*81.9*			*47.4-97.8 %*		"	"	"	"	
Surrogate: Phenol-d6	*53.5*			*30-91.5 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*62.5*			*30-108 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904075
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/29/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
FB-1 (0904075-04) Water Sampled: 09/15/09 15:15 Received: 09/15/09 17:04										
1,2,4-Trichlorobenzene	<0.18	9.3	0.18	ug/L	1	B9I2201	09/22/09	09/23/09	EPA 8270C	
1,2-Dichlorobenzene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.56	9.3	0.56	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	9.3	0.74	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<1.5	9.3	1.5	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<0.93	9.3	0.93	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<0.31	9.3	0.31	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
2-Chlorophenol	<0.42	9.3	0.42	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<0.61	9.3	0.61	ug/L	1	"	"	"	"	
2-Methylphenol	<0.58	9.3	0.58	ug/L	1	"	"	"	"	
2-Nitroaniline	<0.67	9.3	0.67	ug/L	1	"	"	"	"	
2-Nitrophenol	<0.83	9.3	0.83	ug/L	1	"	"	"	"	
3,3´-Dichlorobenzidine	<6.8	23	6.8	ug/L	1	"	"	"	"	
3-Nitroaniline	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.60	9.3	0.60	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.51	9.3	0.51	ug/L	1	"	"	"	"	
4-Chloroaniline	<2.1	9.3	2.1	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
4-Methylphenol	<0.73	9.3	0.73	ug/L	1	"	"	"	"	
4-Nitroaniline	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
4-Nitrophenol	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Acenaphthene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
Acenaphthylene	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
Aniline	<2.0	9.3	2.0	ug/L	1	"	"	"	"	
Anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzidine	<17	93	17	ug/L	1	"	"	"	"	
Benzo (a) anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzo (a) pyrene	<0.27	9.3	0.27	ug/L	1	"	"	"	"	
Benzo (b) fluoranthene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904075
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/29/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
FB-1 (0904075-04) Water Sampled: 09/15/09 15:15 Received: 09/15/09 17:04										
Benzo (k) fluoranthene	<0.29	9.3	0.29	ug/L	1	B9I2201	09/22/09	09/23/09	EPA 8270C	
Benzoic acid	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Benzyl alcohol	<0.50	9.3	0.50	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.17	9.3	0.17	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.18	9.3	0.18	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.40	9.3	0.40	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Carbazole	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Chrysene	<0.25	9.3	0.25	ug/L	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dibenzofuran	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Diethyl phthalate	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dimethyl phthalate	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<0.35	9.3	0.35	ug/L	1	"	"	"	"	
Fluoranthene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Fluorene	<0.37	9.3	0.37	ug/L	1	"	"	"	"	
Hexachlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Hexachloroethane	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Isophorone	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Naphthalene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Nitrobenzene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<0.88	9.3	0.88	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Pentachlorophenol	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
Phenanthrene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Phenol	<0.53	9.3	0.53	ug/L	1	"	"	"	"	
Pyrene	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*77.9*			*48.5-114 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*74.3*			*41.7-98.4 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*56.0*			*30-93.5 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*75.3*			*47.4-97.8 %*		"	"	"	"	
Surrogate: Phenol-d6	*51.9*			*30-91.5 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*65.9*			*30-108 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904075
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/29/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WSW-207607 (0904075-01) Water Sampled: 09/15/09 12:35 Received: 09/15/09 17:04										
1,1,1,2-Tetrachloroethane	<0.28	1.0	0.28	ug/L	1	B9I2313	09/23/09	09/23/09	EPA 8260B	
1,1,1-Trichloroethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.28	1.0	0.28	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<0.11	1.0	0.11	ug/L	1	"	"	"	"	
1,1-Dichloroethene	<0.12	1.0	0.12	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.47	5.0	0.47	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	2.5	0.24	ug/L	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.32	5.0	0.32	ug/L	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	5.0	0.60	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
2-Butanone	<0.67	20	0.67	ug/L	1	"	"	"	"	
2-Chlorotoluene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
4-Chlorotoluene	<0.14	1.0	0.14	ug/L	1	"	"	"	"	
Acetone	<2.8	20	2.8	ug/L	1	"	"	"	"	
Allyl chloride	<0.76	5.0	0.76	ug/L	1	"	"	"	"	
Benzene	<0.093	1.0	0.093	ug/L	1	"	"	"	"	
Bromobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Bromochloromethane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Bromodichloromethane	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Bromoform	<0.50	5.0	0.50	ug/L	1	"	"	"	"	
Bromomethane	<0.95	5.0	0.95	ug/L	1	"	"	"	"	
Carbon tetrachloride	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Chlorobenzene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
Chloroethane	<0.46	2.5	0.46	ug/L	1	"	"	"	"	
Chloroform	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Chloromethane	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904075
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/29/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WSW-207607 (0904075-01) Water Sampled: 09/15/09 12:35 Received: 09/15/09 17:04										
cis-1,3-Dichloropropene	<0.16	1.0	0.16	ug/L	1	B9I2313	09/23/09	09/23/09	EPA 8260B	
Dibromochloromethane	<0.50	2.5	0.50	ug/L	1	"	"	"	"	
Dibromomethane	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<0.31	1.0	0.31	ug/L	1	"	"	"	"	
Ethyl ether	<0.53	5.0	0.53	ug/L	1	"	"	"	"	
Ethylbenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.76	10	0.76	ug/L	1	"	"	"	"	
Isopropylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
m,p-Xylene	<0.42	2.0	0.42	ug/L	1	"	"	"	"	
Methyl isobutyl ketone	<1.1	5.0	1.1	ug/L	1	"	"	"	"	
Methyl tert-butyl ether	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
Methylene chloride	<0.65	5.0	0.65	ug/L	1	"	"	"	"	
Naphthalene	<0.40	5.0	0.40	ug/L	1	"	"	"	"	
n-Butylbenzene	<0.32	2.5	0.32	ug/L	1	"	"	"	"	
n-Propylbenzene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
o-Xylene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
sec-Butylbenzene	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Styrene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
tert-Butylbenzene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Tetrachloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Tetrahydrofuran	<0.77	20	0.77	ug/L	1	"	"	"	"	
Toluene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.29	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Vinyl chloride	<0.087	1.0	0.087	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*114*			*80-121 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*98.0*			*79.9-121 %*		"	"	"	"	
Surrogate: Toluene-d8	*98.3*			*80-120 %*		"	"	"	"	
WSW-208402 (0904075-02) Water Sampled: 09/15/09 14:00 Received: 09/15/09 17:04										
1,1,1,2-Tetrachloroethane	<0.28	1.0	0.28	ug/L	1	B9I2313	09/23/09	09/23/09	EPA 8260B	
1,1,1-Trichloroethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.28	1.0	0.28	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904075
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/29/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WSW-208402 (0904075-02) Water Sampled: 09/15/09 14:00 Received: 09/15/09 17:04										
1,1-Dichloroethane	<0.11	1.0	0.11	ug/L	1	B9I2313	09/23/09	09/23/09	EPA 8260B	
1,1-Dichloroethene	<0.12	1.0	0.12	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.47	5.0	0.47	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	2.5	0.24	ug/L	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.32	5.0	0.32	ug/L	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	5.0	0.60	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
2-Butanone	<0.67	20	0.67	ug/L	1	"	"	"	"	
2-Chlorotoluene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
4-Chlorotoluene	<0.14	1.0	0.14	ug/L	1	"	"	"	"	
Acetone	<2.8	20	2.8	ug/L	1	"	"	"	"	
Allyl chloride	<0.76	5.0	0.76	ug/L	1	"	"	"	"	
Benzene	<0.093	1.0	0.093	ug/L	1	"	"	"	"	
Bromobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Bromochloromethane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Bromodichloromethane	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Bromoform	<0.50	5.0	0.50	ug/L	1	"	"	"	"	
Bromomethane	<0.95	5.0	0.95	ug/L	1	"	"	"	"	
Carbon tetrachloride	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Chlorobenzene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
Chloroethane	<0.46	2.5	0.46	ug/L	1	"	"	"	"	
Chloroform	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Chloromethane	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Dibromochloromethane	<0.50	2.5	0.50	ug/L	1	"	"	"	"	
Dibromomethane	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<0.31	1.0	0.31	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904075
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/29/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WSW-208402 (0904075-02) Water Sampled: 09/15/09 14:00 Received: 09/15/09 17:04										
Ethyl ether	<0.53	5.0	0.53	ug/L	1	B9I2313	09/23/09	09/23/09	EPA 8260B	
Ethylbenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.76	10	0.76	ug/L	1	"	"	"	"	
Isopropylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
m,p-Xylene	<0.42	2.0	0.42	ug/L	1	"	"	"	"	
Methyl isobutyl ketone	<1.1	5.0	1.1	ug/L	1	"	"	"	"	
Methyl tert-butyl ether	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
Methylene chloride	<0.65	5.0	0.65	ug/L	1	"	"	"	"	
Naphthalene	<0.40	5.0	0.40	ug/L	1	"	"	"	"	
n-Butylbenzene	<0.32	2.5	0.32	ug/L	1	"	"	"	"	
n-Propylbenzene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
o-Xylene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
sec-Butylbenzene	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Styrene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
tert-Butylbenzene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Tetrachloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Tetrahydrofuran	<0.77	20	0.77	ug/L	1	"	"	"	"	
Toluene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.29	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Vinyl chloride	<0.087	1.0	0.087	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*111*			*80-121 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*99.7*			*79.9-121 %*		"	"	"	"	
Surrogate: Toluene-d8	*91.6*			*80-120 %*		"	"	"	"	
WSW-208405 (0904075-03) Water Sampled: 09/15/09 15:15 Received: 09/15/09 17:04										
1,1,1,2-Tetrachloroethane	<0.28	1.0	0.28	ug/L	1	B9I2313	09/23/09	09/23/09	EPA 8260B	
1,1,1-Trichloroethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.28	1.0	0.28	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<0.11	1.0	0.11	ug/L	1	"	"	"	"	
1,1-Dichloroethene	<0.12	1.0	0.12	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.47	5.0	0.47	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	2.5	0.24	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904075
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/29/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WSW-208405 (0904075-03) Water Sampled: 09/15/09 15:15 Received: 09/15/09 17:04										
1,2,4-Trichlorobenzene	<0.32	5.0	0.32	ug/L	1	B9I2313	09/23/09	09/23/09	EPA 8260B	
1,2,4-Trimethylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	5.0	0.60	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
2-Butanone	<0.67	20	0.67	ug/L	1	"	"	"	"	
2-Chlorotoluene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
4-Chlorotoluene	<0.14	1.0	0.14	ug/L	1	"	"	"	"	
Acetone	<2.8	20	2.8	ug/L	1	"	"	"	"	
Allyl chloride	<0.76	5.0	0.76	ug/L	1	"	"	"	"	
Benzene	<0.093	1.0	0.093	ug/L	1	"	"	"	"	
Bromobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Bromochloromethane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Bromodichloromethane	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Bromoform	<0.50	5.0	0.50	ug/L	1	"	"	"	"	
Bromomethane	<0.95	5.0	0.95	ug/L	1	"	"	"	"	
Carbon tetrachloride	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Chlorobenzene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
Chloroethane	<0.46	2.5	0.46	ug/L	1	"	"	"	"	
Chloroform	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Chloromethane	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Dibromochloromethane	<0.50	2.5	0.50	ug/L	1	"	"	"	"	
Dibromomethane	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<0.31	1.0	0.31	ug/L	1	"	"	"	"	
Ethyl ether	<0.53	5.0	0.53	ug/L	1	"	"	"	"	
Ethylbenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.76	10	0.76	ug/L	1	"	"	"	"	
Isopropylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
m,p-Xylene	<0.42	2.0	0.42	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904075
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/29/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WSW-208405 (0904075-03) Water Sampled: 09/15/09 15:15 Received: 09/15/09 17:04										
Methyl isobutyl ketone	<1.1	5.0	1.1	ug/L	1	B9I2313	09/23/09	09/23/09	EPA 8260B	
Methyl tert-butyl ether	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
Methylene chloride	<0.65	5.0	0.65	ug/L	1	"	"	"	"	
Naphthalene	<0.40	5.0	0.40	ug/L	1	"	"	"	"	
n-Butylbenzene	<0.32	2.5	0.32	ug/L	1	"	"	"	"	
n-Propylbenzene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
o-Xylene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
sec-Butylbenzene	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Styrene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
tert-Butylbenzene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Tetrachloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Tetrahydrofuran	<0.77	20	0.77	ug/L	1	"	"	"	"	
Toluene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.29	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Vinyl chloride	<0.087	1.0	0.087	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*120*			*80-121 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*104*			*79.9-121 %*		"	"	"	"	
Surrogate: Toluene-d8	*103*			*80-120 %*		"	"	"	"	
FB-1 (0904075-04) Water Sampled: 09/15/09 15:15 Received: 09/15/09 17:04										
1,1,1,2-Tetrachloroethane	<0.28	1.0	0.28	ug/L	1	B9I2313	09/23/09	09/23/09	EPA 8260B	
1,1,1-Trichloroethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.28	1.0	0.28	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<0.11	1.0	0.11	ug/L	1	"	"	"	"	
1,1-Dichloroethene	<0.12	1.0	0.12	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.47	5.0	0.47	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	2.5	0.24	ug/L	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.32	5.0	0.32	ug/L	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	5.0	0.60	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904075
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/29/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
FB-1 (0904075-04) Water Sampled: 09/15/09 15:15 Received: 09/15/09 17:04										
1,2-Dichloroethane	<0.18	1.0	0.18	ug/L	1	B9I2313	09/23/09	09/23/09	EPA 8260B	
1,2-Dichloropropane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
2-Butanone	<0.67	20	0.67	ug/L	1	"	"	"	"	
2-Chlorotoluene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
4-Chlorotoluene	<0.14	1.0	0.14	ug/L	1	"	"	"	"	
Acetone	<2.8	20	2.8	ug/L	1	"	"	"	"	
Allyl chloride	<0.76	5.0	0.76	ug/L	1	"	"	"	"	
Benzene	<0.093	1.0	0.093	ug/L	1	"	"	"	"	
Bromobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Bromochloromethane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Bromodichloromethane	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Bromoform	<0.50	5.0	0.50	ug/L	1	"	"	"	"	
Bromomethane	<0.95	5.0	0.95	ug/L	1	"	"	"	"	
Carbon tetrachloride	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Chlorobenzene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
Chloroethane	<0.46	2.5	0.46	ug/L	1	"	"	"	"	
Chloroform	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Chloromethane	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Dibromochloromethane	<0.50	2.5	0.50	ug/L	1	"	"	"	"	
Dibromomethane	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<0.31	1.0	0.31	ug/L	1	"	"	"	"	
Ethyl ether	<0.53	5.0	0.53	ug/L	1	"	"	"	"	
Ethylbenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.76	10	0.76	ug/L	1	"	"	"	"	
Isopropylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
m,p-Xylene	<0.42	2.0	0.42	ug/L	1	"	"	"	"	
Methyl isobutyl ketone	<1.1	5.0	1.1	ug/L	1	"	"	"	"	
Methyl tert-butyl ether	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
Methylene chloride	<0.65	5.0	0.65	ug/L	1	"	"	"	"	
Naphthalene	<0.40	5.0	0.40	ug/L	1	"	"	"	"	
n-Butylbenzene	<0.32	2.5	0.32	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904075
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/29/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
FB-1 (0904075-04) Water Sampled: 09/15/09 15:15 Received: 09/15/09 17:04										
n-Propylbenzene	<0.13	1.0	0.13	ug/L	1	B9I2313	09/23/09	09/23/09	EPA 8260B	
o-Xylene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
sec-Butylbenzene	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Styrene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
tert-Butylbenzene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Tetrachloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Tetrahydrofuran	<0.77	20	0.77	ug/L	1	"	"	"	"	
Toluene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.29	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Vinyl chloride	<0.087	1.0	0.087	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*116*			*80-121 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*102*			*79.9-121 %*		"	"	"	"	
Surrogate: Toluene-d8	*102*			*80-120 %*		"	"	"	"	
Trip Blank (0904075-05) Water Sampled: 09/15/09 00:00 Received: 09/15/09 17:04										
1,1,1,2-Tetrachloroethane	<0.28	1.0	0.28	ug/L	1	B9I2313	09/23/09	09/23/09	EPA 8260B	
1,1,1-Trichloroethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.28	1.0	0.28	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<0.11	1.0	0.11	ug/L	1	"	"	"	"	
1,1-Dichloroethene	<0.12	1.0	0.12	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.47	5.0	0.47	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	2.5	0.24	ug/L	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.32	5.0	0.32	ug/L	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	5.0	0.60	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<0.15	1.0	0.15	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904075
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/29/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (0904075-05) Water	**Sampled: 09/15/09 00:00**		**Received: 09/15/09 17:04**							
1,4-Dichlorobenzene	<0.17	1.0	0.17	ug/L	1	B9I2313	09/23/09	09/23/09	EPA 8260B	
2,2-Dichloropropane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
2-Butanone	<0.67	20	0.67	ug/L	1	"	"	"	"	
2-Chlorotoluene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
4-Chlorotoluene	<0.14	1.0	0.14	ug/L	1	"	"	"	"	
Acetone	<2.8	20	2.8	ug/L	1	"	"	"	"	
Allyl chloride	<0.76	5.0	0.76	ug/L	1	"	"	"	"	
Benzene	<0.093	1.0	0.093	ug/L	1	"	"	"	"	
Bromobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Bromochloromethane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Bromodichloromethane	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Bromoform	<0.50	5.0	0.50	ug/L	1	"	"	"	"	
Bromomethane	<0.95	5.0	0.95	ug/L	1	"	"	"	"	
Carbon tetrachloride	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Chlorobenzene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
Chloroethane	<0.46	2.5	0.46	ug/L	1	"	"	"	"	
Chloroform	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Chloromethane	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Dibromochloromethane	<0.50	2.5	0.50	ug/L	1	"	"	"	"	
Dibromomethane	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<0.31	1.0	0.31	ug/L	1	"	"	"	"	
Ethyl ether	<0.53	5.0	0.53	ug/L	1	"	"	"	"	
Ethylbenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.76	10	0.76	ug/L	1	"	"	"	"	
Isopropylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
m,p-Xylene	<0.42	2.0	0.42	ug/L	1	"	"	"	"	
Methyl isobutyl ketone	<1.1	5.0	1.1	ug/L	1	"	"	"	"	
Methyl tert-butyl ether	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
Methylene chloride	<0.65	5.0	0.65	ug/L	1	"	"	"	"	
Naphthalene	<0.40	5.0	0.40	ug/L	1	"	"	"	"	
n-Butylbenzene	<0.32	2.5	0.32	ug/L	1	"	"	"	"	
n-Propylbenzene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
o-Xylene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
sec-Butylbenzene	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Styrene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904075
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/29/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (0904075-05) Water	**Sampled: 09/15/09 00:00**		**Received: 09/15/09 17:04**							
tert-Butylbenzene	<0.19	1.0	0.19	ug/L	1	B9I2313	09/23/09	09/23/09	EPA 8260B	
Tetrachloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Tetrahydrofuran	<0.77	20	0.77	ug/L	1	"	"	"	"	
Toluene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.29	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Vinyl chloride	<0.087	1.0	0.087	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*111*			*80-121 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*98.7*			*79.9-121 %*		"	"	"	"	
Surrogate: Toluene-d8	*97.5*			*80-120 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904075
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/29/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2003 - EPA 200.8 Digestion											
Blank (B9I2003-BLK1)					Prepared: 09/20/09		Analyzed: 09/24/09				
Antimony	< 0.046	0.50	0.046	ug/L							
Beryllium	< 0.027	0.50	0.027	ug/L							
Thallium	< 0.0081	0.50	0.0081	ug/L							
LCS (B9I2003-BS1)					Prepared: 09/20/09		Analyzed: 09/24/09				
Antimony	23.1	0.50	0.046	ug/L	20.0		116	80-120			
Beryllium	22.4	0.50	0.027	ug/L	20.0		112	80-120			
Thallium	20.6	0.50	0.0081	ug/L	20.0		103	80-120			
LCS Dup (B9I2003-BSD1)					Prepared: 09/20/09		Analyzed: 09/24/09				
Antimony	22.1	0.50	0.046	ug/L	20.0		111	80-120	4.30	20	
Beryllium	21.9	0.50	0.027	ug/L	20.0		109	80-120	2.42	20	
Thallium	21.5	0.50	0.0081	ug/L	20.0		108	80-120	4.58	20	
Matrix Spike (B9I2003-MS1)		**Source: 0903921-02**			Prepared: 09/20/09		Analyzed: 09/24/09				
Antimony	15.7	0.50	0.046	ug/L	20.0	0.542	75.8	75-125			
Beryllium	4.78	0.50	0.027	ug/L	20.0	<0.50	23.9	75-125			M2
Thallium	21.7	0.50	0.0081	ug/L	20.0	<0.50	108	75-125			
Matrix Spike Dup (B9I2003-MSD1)		**Source: 0903921-02**			Prepared: 09/20/09		Analyzed: 09/24/09				
Antimony	19.0	0.50	0.046	ug/L	20.0	0.542	92.2	75-125	19.0	20	
Beryllium	4.96	0.50	0.027	ug/L	20.0	<0.50	24.8	75-125	3.76	20	M2
Thallium	21.7	0.50	0.0081	ug/L	20.0	<0.50	108	75-125	0.323	20	
Batch B9I2004 - EPA 200.7/3005A Digestion											
Blank (B9I2004-BLK1)					Prepared & Analyzed: 09/20/09						
Arsenic	< 10	10	2.0	ug/L							
Cadmium	< 1.0	1.0	0.099	ug/L							
Chromium	< 10	10	0.24	ug/L							
Copper	< 20	20	1.4	ug/L							
Lead	< 3.0	3.0	0.68	ug/L							
Nickel	< 5.0	5.0	0.28	ug/L							
Selenium	< 20	20	2.2	ug/L							
Silver	< 5.0	5.0	0.18	ug/L							
Zinc	< 20	20	4.4	ug/L							
LCS (B9I2004-BS1)					Prepared: 09/20/09		Analyzed: 09/21/09				
Arsenic	332	10	2.0	ug/L	399		83.2	80-120			
Cadmium	353	1.0	0.099	ug/L	399		88.4	80-120			
Chromium	366	10	0.24	ug/L	399		91.8	80-120			
Copper	338	20	1.4	ug/L	399		84.7	80-120			
Lead	357	3.0	0.68	ug/L	399		89.4	80-120			
Nickel	360	5.0	0.28	ug/L	399		90.3	80-120			

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904075
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	09/29/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2004 - EPA 200.7/3005A Digestion											
LCS (B9I2004-BS1)					Prepared: 09/20/09		Analyzed: 09/21/09				
Selenium	330	20	2.2	ug/L	399		82.8	80-120			
Silver	34.1	5.0	0.18	ug/L	39.9		85.4	80-120			
Zinc	343	20	4.4	ug/L	399		86.0	80-120			
LCS Dup (B9I2004-BSD1)					Prepared: 09/20/09		Analyzed: 09/21/09				
Arsenic	338	10	2.0	ug/L	399		84.8	80-120	1.84	20	
Cadmium	362	1.0	0.099	ug/L	399		90.7	80-120	2.59	20	
Chromium	367	10	0.24	ug/L	399		92.1	80-120	0.260	20	
Copper	340	20	1.4	ug/L	399		85.3	80-120	0.643	20	
Lead	368	3.0	0.68	ug/L	399		92.1	80-120	2.95	20	
Nickel	364	5.0	0.28	ug/L	399		91.3	80-120	1.01	20	
Selenium	333	20	2.2	ug/L	399		83.4	80-120	0.634	20	
Silver	33.8	5.0	0.18	ug/L	39.9		84.6	80-120	0.933	20	
Zinc	348	20	4.4	ug/L	399		87.2	80-120	1.31	20	
Matrix Spike (B9I2004-MS1)		**Source: 0904026-01**			Prepared: 09/20/09		Analyzed: 09/21/09				
Arsenic	343	10	2.0	ug/L	399	<10	86.0	75-125			
Cadmium	358	1.0	0.099	ug/L	399	<1.0	89.8	75-125			
Chromium	364	10	0.24	ug/L	399	<10	91.2	75-125			
Copper	343	20	1.4	ug/L	399	<20	85.9	75-125			
Lead	362	3.0	0.68	ug/L	399	<3.0	90.7	75-125			
Nickel	361	5.0	0.28	ug/L	399	28.1	83.5	75-125			
Selenium	338	20	2.2	ug/L	399	<20	84.6	75-125			
Silver	33.9	5.0	0.18	ug/L	39.9	<5.0	85.0	75-125			
Zinc	347	20	4.4	ug/L	399	<20	87.0	75-125			
Matrix Spike Dup (B9I2004-MSD1)		**Source: 0904026-01**			Prepared: 09/20/09		Analyzed: 09/21/09				
Arsenic	347	10	2.0	ug/L	399	<10	86.9	75-125	1.02	20	
Cadmium	358	1.0	0.099	ug/L	399	<1.0	89.6	75-125	0.192	20	
Chromium	361	10	0.24	ug/L	399	<10	90.4	75-125	0.798	20	
Copper	345	20	1.4	ug/L	399	<20	86.4	75-125	0.605	20	
Lead	361	3.0	0.68	ug/L	399	<3.0	90.4	75-125	0.319	20	
Nickel	362	5.0	0.28	ug/L	399	28.1	83.6	75-125	0.141	20	
Selenium	341	20	2.2	ug/L	399	<20	85.5	75-125	1.09	20	
Silver	33.8	5.0	0.18	ug/L	39.9	<5.0	84.8	75-125	0.148	20	
Zinc	366	20	4.4	ug/L	399	<20	91.7	75-125	5.18	20	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904075
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/29/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2109 - EPA 245.1/7470A Digestion											
Blank (B9I2109-BLK1)					Prepared: 09/21/09		Analyzed: 09/22/09				
Mercury	< 0.20	0.20	0.018	ug/L							
LCS (B9I2109-BS1)					Prepared: 09/21/09		Analyzed: 09/22/09				
Mercury	2.12	0.20	0.018	ug/L	2.00		106	80-120			
LCS Dup (B9I2109-BSD1)					Prepared: 09/21/09		Analyzed: 09/22/09				
Mercury	2.16	0.20	0.018	ug/L	2.00		108	80-120	1.87	20	
Matrix Spike (B9I2109-MS1)		**Source: 0904075-01**			Prepared: 09/21/09		Analyzed: 09/22/09				
Mercury	1.97	0.20	0.018	ug/L	2.00	<0.20	98.5	75-125			
Matrix Spike Dup (B9I2109-MSD1)		**Source: 0904075-01**			Prepared: 09/21/09		Analyzed: 09/22/09				
Mercury	2.07	0.20	0.018	ug/L	2.00	<0.20	104	75-125	4.95	20	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904075
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/29/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2201 - EPA 3510C (Sep Funnel)											
Blank (B9I2201-BLK1)					Prepared & Analyzed: 09/22/09						
1,2,4-Trichlorobenzene	< 0.19	10	0.19	ug/L							
1,2-Dichlorobenzene	< 0.23	10	0.23	ug/L							
1,2-Diphenylhydrazine as Azobenzene	< 0.24	10	0.24	ug/L							
1,3-Dichlorobenzene	< 0.21	10	0.21	ug/L							
1,4-Dichlorobenzene	< 0.22	10	0.22	ug/L							
2,3,4,6-Tetrachlorophenol	< 0.61	10	0.61	ug/L							
2,4,5-Trichlorophenol	< 0.80	10	0.80	ug/L							
2,4,6-Trichlorophenol	< 0.48	10	0.48	ug/L							
2,4-Dichlorophenol	< 0.47	10	0.47	ug/L							
2,4-Dimethylphenol	< 1.6	10	1.6	ug/L							
2,4-Dinitrophenol	< 1.0	10	1.0	ug/L							
2,4-Dinitrotoluene	< 0.33	10	0.33	ug/L							
2,6-Dichlorophenol	< 0.48	10	0.48	ug/L							
2,6-Dinitrotoluene	< 0.36	10	0.36	ug/L							
2-Chloronaphthalene	< 0.28	10	0.28	ug/L							
2-Chlorophenol	< 0.45	10	0.45	ug/L							
2-Methylnaphthalene	< 0.66	10	0.66	ug/L							
2-Methylphenol	< 0.63	10	0.63	ug/L							
2-Nitroaniline	< 0.72	10	0.72	ug/L							
2-Nitrophenol	< 0.90	10	0.90	ug/L							
3,3´-Dichlorobenzidine	< 7.3	25	7.3	ug/L							
3-Nitroaniline	< 1.2	10	1.2	ug/L							
4,6-Dinitro-2-methylphenol	< 0.65	10	0.65	ug/L							
4-Bromophenyl phenyl ether	< 0.17	10	0.17	ug/L							
4-Chloro-3-methylphenol	< 0.55	10	0.55	ug/L							
4-Chloroaniline	< 2.3	10	2.3	ug/L							
4-Chlorophenyl phenyl ether	< 0.25	10	0.25	ug/L							
4-Methylphenol	< 0.79	10	0.79	ug/L							
4-Nitroaniline	< 0.59	10	0.59	ug/L							
4-Nitrophenol	< 1.2	10	1.2	ug/L							
Acenaphthene	< 0.36	10	0.36	ug/L							
Acenaphthylene	< 0.25	10	0.25	ug/L							
Aniline	< 2.2	10	2.2	ug/L							
Anthracene	< 0.37	10	0.37	ug/L							
Benzidine	< 18	100	18	ug/L							
Benzo (a) anthracene	< 0.37	10	0.37	ug/L							
Benzo (a) pyrene	< 0.29	10	0.29	ug/L							
Benzo (b) fluoranthene	< 0.22	10	0.22	ug/L							
Benzo (g,h,i) perylene	< 0.26	10	0.26	ug/L							

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904075
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/29/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2201 - EPA 3510C (Sep Funnel)											
Blank (B9I2201-BLK1)					Prepared & Analyzed: 09/22/09						
Benzo (k) fluoranthene	< 0.31	10	0.31	ug/L							
Benzoic acid	< 1.2	10	1.2	ug/L							
Benzyl alcohol	< 0.54	10	0.54	ug/L							
Bis(2-chloroethoxy)methane	< 0.18	10	0.18	ug/L							
Bis(2-chloroethyl)ether	< 0.17	10	0.17	ug/L							
Bis(2-chloroisopropyl)ether	< 0.19	10	0.19	ug/L							
Bis(2-ethylhexyl)phthalate	< 0.43	10	0.43	ug/L							
Butyl benzyl phthalate	< 0.37	10	0.37	ug/L							
Carbazole	< 0.26	10	0.26	ug/L							
Chrysene	< 0.27	10	0.27	ug/L							
Dibenz (a,h) anthracene	< 0.23	10	0.23	ug/L							
Dibenzofuran	< 0.39	10	0.39	ug/L							
Diethyl phthalate	< 0.23	10	0.23	ug/L							
Dimethyl phthalate	< 0.24	10	0.24	ug/L							
Di-n-butyl phthalate	< 0.28	10	0.28	ug/L							
Di-n-octyl phthalate	< 0.38	10	0.38	ug/L							
Fluoranthene	< 0.39	10	0.39	ug/L							
Fluorene	< 0.40	10	0.40	ug/L							
Hexachlorobenzene	< 0.20	10	0.20	ug/L							
Hexachlorobutadiene	< 0.26	10	0.26	ug/L							
Hexachlorocyclopentadiene	< 0.31	10	0.31	ug/L							
Hexachloroethane	< 0.31	10	0.31	ug/L							
Indeno (1,2,3-cd) pyrene	< 0.31	10	0.31	ug/L							
Isophorone	< 0.23	10	0.23	ug/L							
Naphthalene	< 0.37	10	0.37	ug/L							
Nitrobenzene	< 0.39	10	0.39	ug/L							
N-Nitrosodimethylamine	< 0.95	10	0.95	ug/L							
N-Nitrosodi-n-propylamine	< 0.21	10	0.21	ug/L							
N-Nitrosodiphenylamine	< 0.23	10	0.23	ug/L							
Pentachlorophenol	< 0.59	10	0.59	ug/L							
Phenanthrene	< 0.39	10	0.39	ug/L							
Phenol	< 0.57	10	0.57	ug/L							
Pyrene	< 0.47	10	0.47	ug/L							
Surrogate: 2,4,6-Tribromophenol	*83.1*			*ug/L*	*100*		*83.1*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*64.1*			*ug/L*	*100*		*64.1*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*62.7*			*ug/L*	*100*		*62.7*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*68.4*			*ug/L*	*100*		*68.4*	*47.4-97.8*			
Surrogate: Phenol-d6	*58.2*			*ug/L*	*100*		*58.2*	*30-91.5*			
Surrogate: Terphenyl-d14	*68.4*			*ug/L*	*100*		*68.4*	*30-108*			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904075
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/29/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2201 - EPA 3510C (Sep Funnel)											
LCS (B9I2201-BS1)					Prepared & Analyzed: 09/22/09						
1,2,4-Trichlorobenzene	56.8	10	0.19	ug/L	100		56.8	48.2-88.3			
1,4-Dichlorobenzene	51.8	10	0.22	ug/L	100		51.8	42.8-82.2			
2,4-Dinitrotoluene	80.7	10	0.33	ug/L	100		80.7	64.6-98.9			
2-Chlorophenol	70.5	10	0.45	ug/L	100		70.5	56.5-88.1			
4-Chloro-3-methylphenol	74.7	10	0.55	ug/L	100		74.7	63.4-95.2			
4-Nitrophenol	74.4	10	1.2	ug/L	100		74.4	51.3-90.6			
Anthracene	79.6	10	0.37	ug/L	100		79.6	66.7-92.8			
Benzo (a) anthracene	86.2	10	0.37	ug/L	100		86.2	72.7-97.2			
Benzo (a) pyrene	81.2	10	0.29	ug/L	100		81.2	66.4-101			
Chrysene	87.2	10	0.27	ug/L	100		87.2	71.5-98.1			
Fluoranthene	79.3	10	0.39	ug/L	100		79.3	68.8-94			
Fluorene	75.8	10	0.40	ug/L	100		75.8	64.2-94.4			
N-Nitrosodi-n-propylamine	79.7	10	0.21	ug/L	100		79.7	63.6-92.8			
Pentachlorophenol	77.8	10	0.59	ug/L	100		77.8	60.2-101			
Phenanthrene	81.1	10	0.39	ug/L	100		81.1	68.1-94.8			
Phenol	58.1	10	0.57	ug/L	100		58.1	39.6-71			
Surrogate: 2,4,6-Tribromophenol	*83.6*			*ug/L*	*100*		*83.6*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*68.4*			*ug/L*	*100*		*68.4*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*70.4*			*ug/L*	*100*		*70.4*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*74.4*			*ug/L*	*100*		*74.4*	*47.4-97.8*			
Surrogate: Phenol-d6	*67.1*			*ug/L*	*100*		*67.1*	*30-91.5*			
Surrogate: Terphenyl-d14	*80.7*			*ug/L*	*100*		*80.7*	*30-108*			
Matrix Spike (B9I2201-MS1)		**Source: 0904075-01**			Prepared & Analyzed: 09/22/09						
1,2,4-Trichlorobenzene	64.5	9.3	0.18	ug/L	92.6	<9.3	69.7	43.8-87.4			
1,4-Dichlorobenzene	58.6	9.3	0.20	ug/L	92.6	<9.3	63.3	43.7-78.7			
2,4-Dinitrotoluene	73.8	9.3	0.31	ug/L	92.6	<9.3	79.7	52.8-100			
2-Chlorophenol	58.9	9.3	0.42	ug/L	92.6	<9.3	63.7	30.1-95			
4-Chloro-3-methylphenol	66.3	9.3	0.51	ug/L	92.6	<9.3	71.6	44.8-98.7			
4-Nitrophenol	63.8	9.3	1.1	ug/L	92.6	<9.3	68.9	32.5-99.6			
Anthracene	72.5	9.3	0.34	ug/L	92.6	<9.3	78.3	44.8-97.6			
Benzo (a) anthracene	78.8	9.3	0.34	ug/L	92.6	<9.3	85.1	30-115			
Benzo (a) pyrene	73.6	9.3	0.27	ug/L	92.6	<9.3	79.5	30-110			
Chrysene	79.5	9.3	0.25	ug/L	92.6	<9.3	85.8	30-115			
Fluoranthene	72.9	9.3	0.36	ug/L	92.6	<9.3	78.7	37.4-103			
Fluorene	68.9	9.3	0.37	ug/L	92.6	<9.3	74.4	49.6-92.1			
N-Nitrosodi-n-propylamine	70.0	9.3	0.19	ug/L	92.6	<9.3	75.6	44.9-100			
Pentachlorophenol	71.6	9.3	0.55	ug/L	92.6	<9.3	77.3	31.2-123			
Phenanthrene	74.6	9.3	0.36	ug/L	92.6	<9.3	80.6	47-99.1			
Phenol	44.8	9.3	0.53	ug/L	92.6	<9.3	48.4	30-79.5			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904075
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/29/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2201 - EPA 3510C (Sep Funnel)											
Matrix Spike (B9I2201-MS1)		**Source: 0904075-01**			Prepared & Analyzed: 09/22/09						
Surrogate: 2,4,6-Tribromophenol	*78.4*			*ug/L*	*92.6*		*84.7*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*64.4*			*ug/L*	*92.6*		*69.5*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*56.1*			*ug/L*	*92.6*		*60.6*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*66.8*			*ug/L*	*92.6*		*72.1*	*47.4-97.8*			
Surrogate: Phenol-d6	*52.2*			*ug/L*	*92.6*		*56.4*	*30-91.5*			
Surrogate: Terphenyl-d14	*73.8*			*ug/L*	*92.6*		*79.7*	*30-108*			
Matrix Spike Dup (B9I2201-MSD1)		**Source: 0904075-01**			Prepared & Analyzed: 09/22/09						
1,2,4-Trichlorobenzene	67.9	9.3	0.18	ug/L	92.6	<9.3	73.3	43.8-87.4	5.08	28.2	
1,4-Dichlorobenzene	61.4	9.3	0.20	ug/L	92.6	<9.3	66.3	43.7-78.7	4.64	25	
2,4-Dinitrotoluene	73.3	9.3	0.31	ug/L	92.6	<9.3	79.1	52.8-100	0.799	15	
2-Chlorophenol	62.7	9.3	0.42	ug/L	92.6	<9.3	67.7	30.1-95	6.11	27.5	
4-Chloro-3-methylphenol	67.4	9.3	0.51	ug/L	92.6	<9.3	72.8	44.8-98.7	1.63	27.6	
4-Nitrophenol	63.5	9.3	1.1	ug/L	92.6	<9.3	68.6	32.5-99.6	0.562	35	
Anthracene	73.7	9.3	0.34	ug/L	92.6	<9.3	79.6	44.8-97.6	1.71	21	
Benzo (a) anthracene	79.3	9.3	0.34	ug/L	92.6	<9.3	85.6	30-115	0.565	33.7	
Benzo (a) pyrene	74.2	9.3	0.27	ug/L	92.6	<9.3	80.1	30-110	0.813	33.8	
Chrysene	79.6	9.3	0.25	ug/L	92.6	<9.3	86.0	30-115	0.182	35.1	
Fluoranthene	73.0	9.3	0.36	ug/L	92.6	<9.3	78.8	37.4-103	0.200	29.1	
Fluorene	70.0	9.3	0.37	ug/L	92.6	<9.3	75.5	49.6-92.1	1.49	19.7	
N-Nitrosodi-n-propylamine	73.4	9.3	0.19	ug/L	92.6	<9.3	79.3	44.9-100	4.82	18.6	
Pentachlorophenol	70.8	9.3	0.55	ug/L	92.6	<9.3	76.5	31.2-123	1.06	32.2	
Phenanthrene	74.9	9.3	0.36	ug/L	92.6	<9.3	80.9	47-99.1	0.384	18.4	
Phenol	48.1	9.3	0.53	ug/L	92.6	<9.3	51.9	30-79.5	7.13	33.6	
Surrogate: 2,4,6-Tribromophenol	*77.2*			*ug/L*	*92.6*		*83.3*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*67.4*			*ug/L*	*92.6*		*72.8*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*58.8*			*ug/L*	*92.6*		*63.5*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*70.6*			*ug/L*	*92.6*		*76.3*	*47.4-97.8*			
Surrogate: Phenol-d6	*54.9*			*ug/L*	*92.6*		*59.3*	*30-91.5*			
Surrogate: Terphenyl-d14	*74.7*			*ug/L*	*92.6*		*80.6*	*30-108*			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904075
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/29/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2313 - EPA 5030 Water (Purge and Trap)											
Blank (B9I2313-BLK1)					Prepared & Analyzed: 09/23/09						
1,1,1,2-Tetrachloroethane	< 0.28	1.0	0.28	ug/L							
1,1,1-Trichloroethane	< 0.17	1.0	0.17	ug/L							
1,1,2,2-Tetrachloroethane	< 0.13	1.0	0.13	ug/L							
1,1,2-Trichloroethane	< 0.19	1.0	0.19	ug/L							
1,1,2-Trichlorotrifluoroethane	< 0.28	1.0	0.28	ug/L							
1,1-Dichloroethane	< 0.11	1.0	0.11	ug/L							
1,1-Dichloroethene	< 0.12	1.0	0.12	ug/L							
1,1-Dichloropropene	< 0.15	1.0	0.15	ug/L							
1,2,3-Trichlorobenzene	< 0.47	5.0	0.47	ug/L							
1,2,3-Trichloropropane	< 0.24	2.5	0.24	ug/L							
1,2,4-Trichlorobenzene	< 0.32	5.0	0.32	ug/L							
1,2,4-Trimethylbenzene	< 0.17	1.0	0.17	ug/L							
1,2-Dibromo-3-chloropropane	< 0.60	5.0	0.60	ug/L							
1,2-Dibromoethane (EDB)	< 0.37	2.5	0.37	ug/L							
1,2-Dichlorobenzene	< 0.16	1.0	0.16	ug/L							
1,2-Dichloroethane	< 0.18	1.0	0.18	ug/L							
1,2-Dichloropropane	< 0.21	1.0	0.21	ug/L							
1,3,5-Trimethylbenzene	< 0.18	1.0	0.18	ug/L							
1,3-Dichlorobenzene	< 0.21	1.0	0.21	ug/L							
1,3-Dichloropropane	< 0.15	1.0	0.15	ug/L							
1,4-Dichlorobenzene	< 0.17	1.0	0.17	ug/L							
2,2-Dichloropropane	< 0.58	5.0	0.58	ug/L							
2-Butanone	< 0.67	20	0.67	ug/L							
2-Chlorotoluene	< 0.17	1.0	0.17	ug/L							
4-Chlorotoluene	< 0.14	1.0	0.14	ug/L							
Acetone	< 2.8	20	2.8	ug/L							
Allyl chloride	< 0.76	5.0	0.76	ug/L							
Benzene	< 0.093	1.0	0.093	ug/L							
Bromobenzene	< 0.17	1.0	0.17	ug/L							
Bromochloromethane	< 0.21	1.0	0.21	ug/L							
Bromodichloromethane	< 0.22	1.0	0.22	ug/L							
Bromoform	< 0.50	5.0	0.50	ug/L							
Bromomethane	< 0.95	5.0	0.95	ug/L							
Carbon tetrachloride	< 0.16	1.0	0.16	ug/L							
Chlorobenzene	< 0.15	1.0	0.15	ug/L							
Chloroethane	< 0.46	2.5	0.46	ug/L							
Chloroform	< 0.19	1.0	0.19	ug/L							
Chloromethane	< 0.37	2.5	0.37	ug/L							
cis-1,2-Dichloroethene	< 0.19	1.0	0.19	ug/L							

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904075
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/29/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2313 - EPA 5030 Water (Purge and Trap)											
Blank (B9I2313-BLK1)					Prepared & Analyzed: 09/23/09						
cis-1,3-Dichloropropene	< 0.16	1.0	0.16	ug/L							
Dibromochloromethane	< 0.50	2.5	0.50	ug/L							
Dibromomethane	< 0.30	2.5	0.30	ug/L							
Dichlorodifluoromethane	< 0.58	5.0	0.58	ug/L							
Dichlorofluoromethane	< 0.31	1.0	0.31	ug/L							
Ethyl ether	< 0.53	5.0	0.53	ug/L							
Ethylbenzene	< 0.21	1.0	0.21	ug/L							
Hexachlorobutadiene	< 0.76	10	0.76	ug/L							
Isopropylbenzene	< 0.17	1.0	0.17	ug/L							
m,p-Xylene	< 0.42	2.0	0.42	ug/L							
Methyl isobutyl ketone	< 1.1	5.0	1.1	ug/L							
Methyl tert-butyl ether	< 0.13	1.0	0.13	ug/L							
Methylene chloride	< 0.65	5.0	0.65	ug/L							
Naphthalene	< 0.40	5.0	0.40	ug/L							
n-Butylbenzene	< 0.32	2.5	0.32	ug/L							
n-Propylbenzene	< 0.13	1.0	0.13	ug/L							
o-Xylene	< 0.18	1.0	0.18	ug/L							
p-Isopropyltoluene	< 0.30	2.5	0.30	ug/L							
sec-Butylbenzene	< 0.22	1.0	0.22	ug/L							
Styrene	< 0.13	1.0	0.13	ug/L							
tert-Butylbenzene	< 0.19	1.0	0.19	ug/L							
Tetrachloroethene	< 0.20	1.0	0.20	ug/L							
Tetrahydrofuran	< 0.77	20	0.77	ug/L							
Toluene	< 0.21	1.0	0.21	ug/L							
trans-1,2-Dichloroethene	< 0.29	1.0	0.29	ug/L							
trans-1,3-Dichloropropene	< 0.17	1.0	0.17	ug/L							
Trichloroethene	< 0.20	1.0	0.20	ug/L							
Trichlorofluoromethane	< 0.17	1.0	0.17	ug/L							
Vinyl chloride	< 0.087	1.0	0.087	ug/L							
Surrogate: 4-Bromofluorobenzene	*62.3*			*ug/L*	*55.0*		*113*	*80-121*			
Surrogate: Dibromofluoromethane	*55.5*			*ug/L*	*55.0*		*101*	*79.9-121*			
Surrogate: Toluene-d8	*55.2*			*ug/L*	*55.0*		*100*	*80-120*			
LCS (B9I2313-BS1)					Prepared & Analyzed: 09/23/09						
1,1,2,2-Tetrachloroethane	52.3	1.0	0.13	ug/L	50.0		105	80-121			
1,1-Dichloroethane	50.1	1.0	0.11	ug/L	50.0		100	80-125			
1,1-Dichloroethene	49.7	1.0	0.12	ug/L	50.0		99.3	80-125			
1,3,5-Trimethylbenzene	52.0	1.0	0.18	ug/L	50.0		104	75.4-125			
1,4-Dichlorobenzene	50.8	1.0	0.17	ug/L	50.0		102	75-125			
2-Chlorotoluene	51.0	1.0	0.17	ug/L	50.0		102	75.4-125			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904075
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/29/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2313 - EPA 5030 Water (Purge and Trap)											
LCS (B9I2313-BS1)					Prepared & Analyzed: 09/23/09						
Benzene	51.8	1.0	0.093	ug/L	50.0		104	80-120			
Bromoform	48.8	5.0	0.50	ug/L	50.0		97.6	80-120			
Chlorobenzene	52.8	1.0	0.15	ug/L	50.0		106	80-120			
Chloroform	48.7	1.0	0.19	ug/L	50.0		97.3	80-123			
Ethylbenzene	52.0	1.0	0.21	ug/L	50.0		104	80-120			
n-Butylbenzene	50.1	2.5	0.32	ug/L	50.0		100	75-125			
n-Propylbenzene	51.4	1.0	0.13	ug/L	50.0		103	75.8-125			
Toluene	53.4	1.0	0.21	ug/L	50.0		107	80-120			
Trichloroethene	53.6	1.0	0.20	ug/L	50.0		107	80-120			
Vinyl chloride	42.1	1.0	0.087	ug/L	50.0		84.3	75-130			
Surrogate: 4-Bromofluorobenzene	*60.7*			*ug/L*	*55.0*		*110*	*80-121*			
Surrogate: Dibromofluoromethane	*52.7*			*ug/L*	*55.0*		*95.8*	*79.9-121*			
Surrogate: Toluene-d8	*55.4*			*ug/L*	*55.0*		*101*	*80-120*			
Matrix Spike (B9I2313-MS1)		**Source: 0904075-01**			Prepared & Analyzed: 09/23/09						
1,1,2,2-Tetrachloroethane	52.2	1.0	0.13	ug/L	50.0	<1.0	104	76.8-125			
1,1-Dichloroethane	49.1	1.0	0.11	ug/L	50.0	<1.0	98.3	80-125			
1,1-Dichloroethene	49.7	1.0	0.12	ug/L	50.0	<1.0	99.3	80-125			
1,3,5-Trimethylbenzene	51.1	1.0	0.18	ug/L	50.0	<1.0	102	75-125			
1,4-Dichlorobenzene	50.6	1.0	0.17	ug/L	50.0	<1.0	101	75-125			
2-Chlorotoluene	49.5	1.0	0.17	ug/L	50.0	<1.0	99.0	75-125			
Benzene	52.3	1.0	0.093	ug/L	50.0	<1.0	105	80-120			
Bromoform	51.5	5.0	0.50	ug/L	50.0	<5.0	103	80-120			
Chlorobenzene	52.5	1.0	0.15	ug/L	50.0	<1.0	105	80-120			
Chloroform	47.8	1.0	0.19	ug/L	50.0	<1.0	95.5	79.8-125			
Ethylbenzene	52.7	1.0	0.21	ug/L	50.0	<1.0	105	80-120			
n-Butylbenzene	49.8	2.5	0.32	ug/L	50.0	<2.5	99.6	75-130			
n-Propylbenzene	51.4	1.0	0.13	ug/L	50.0	<1.0	103	75-125			
Toluene	53.0	1.0	0.21	ug/L	50.0	<1.0	106	80-120			
Trichloroethene	51.7	1.0	0.20	ug/L	50.0	<1.0	103	80-120			
Vinyl chloride	41.8	1.0	0.087	ug/L	50.0	<1.0	83.6	75-130			
Surrogate: 4-Bromofluorobenzene	*60.8*			*ug/L*	*55.0*		*111*	*80-121*			
Surrogate: Dibromofluoromethane	*54.5*			*ug/L*	*55.0*		*99.1*	*79.9-121*			
Surrogate: Toluene-d8	*55.0*			*ug/L*	*55.0*		*100*	*80-120*			
Matrix Spike Dup (B9I2313-MSD1)		**Source: 0904075-01**			Prepared & Analyzed: 09/23/09						
1,1,2,2-Tetrachloroethane	52.5	1.0	0.13	ug/L	50.0	<1.0	105	76.8-125	0.545	20	
1,1-Dichloroethane	48.5	1.0	0.11	ug/L	50.0	<1.0	97.0	80-125	1.27	20	
1,1-Dichloroethene	48.7	1.0	0.12	ug/L	50.0	<1.0	97.5	80-125	1.86	20	
1,3,5-Trimethylbenzene	51.2	1.0	0.18	ug/L	50.0	<1.0	102	75-125	0.214	20	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904075
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/29/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2313 - EPA 5030 Water (Purge and Trap)											
Matrix Spike Dup (B9I2313-MSD1)		**Source: 0904075-01**			Prepared & Analyzed: 09/23/09						
1,4-Dichlorobenzene	50.9	1.0	0.17	ug/L	50.0	<1.0	102	75-125	0.635	20	
2-Chlorotoluene	48.9	1.0	0.17	ug/L	50.0	<1.0	97.7	75-125	1.37	20	
Benzene	50.6	1.0	0.093	ug/L	50.0	<1.0	101	80-120	3.29	20	
Bromoform	49.3	5.0	0.50	ug/L	50.0	<5.0	98.6	80-120	4.32	20	
Chlorobenzene	50.5	1.0	0.15	ug/L	50.0	<1.0	101	80-120	3.93	20	
Chloroform	48.2	1.0	0.19	ug/L	50.0	<1.0	96.4	79.8-125	0.951	20	
Ethylbenzene	50.8	1.0	0.21	ug/L	50.0	<1.0	102	80-120	3.72	20	
n-Butylbenzene	50.3	2.5	0.32	ug/L	50.0	<2.5	101	75-130	1.05	20	
n-Propylbenzene	50.5	1.0	0.13	ug/L	50.0	<1.0	101	75-125	1.88	20	
Toluene	51.1	1.0	0.21	ug/L	50.0	<1.0	102	80-120	3.65	20	
Trichloroethene	50.5	1.0	0.20	ug/L	50.0	<1.0	101	80-120	2.31	20	
Vinyl chloride	41.4	1.0	0.087	ug/L	50.0	<1.0	82.8	75-130	0.916	20	
Surrogate: 4-Bromofluorobenzene	*59.9*			*ug/L*	*55.0*		*109*	*80-121*			
Surrogate: Dibromofluoromethane	*51.5*			*ug/L*	*55.0*		*93.7*	*79.9-121*			
Surrogate: Toluene-d8	*54.4*			*ug/L*	*55.0*		*98.8*	*80-120*			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904075
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	09/29/09

Notes and Definitions

M2	Matrix spike recovery was low, the associated blank spike recovery was acceptable.
J	Parameter was present between the MDL and RL and should be considered an estimated value
<	Less than value listed
dry	Sample results reported on a dry weight basis
NA	Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL	Method Detection Limit
RL	Reporting Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
MS	Matrix Spike = Laboratory Fortified Matrix (LFM)

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0904075

BARR

Chain of Custody

4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

.07 JMS 9/17/09

Project Number: 23/19-0B055 RL 200

Project Name

№ 27905

COC _____ of _____

Project Manager: JME

Project Contact: KJN

Sampled by: KSJ

Laboratory: Legend

	Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Volatile Organics (Pres.) *1	Semivolatile Organics *2	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	General (Unpreserved) *3	Cyanide (NaOH)	Nutrients (H_2SO_4) *4	Oil and Grease (H_2SO_4)	Sulfide (Zn Acetate)	Methane	Bacteria ($Na_2S_2O_3$)	DRO (HCl)	VOCs (2-oz tared MeOH) *1	GRO, BTEX (2-oz tared MeOH) *1	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.) *2	% Moisture (plastic vial, unpres.)	Total No. Of Containers	Remarks
01	1. WSW-207607	9/15/09	1235	✓		✓			9	3		1									(MS/MSD)						13	Table 1, VOC's, SVOC's
02	2. WSW-208402		1400	✓		✓			3	1		1															5	Metals
03	3. WSW-208405		1515	✓		✓			3	1		1															5	
04	4. FB-1			✓				✓	3	1		1															5	
05	5. Trip Blank 9/16/09																											
	6.																											
	7.																											
	8.																											
	9.																											
	10.																											
	11.																											
	12.																											Temp 2.2°C

Common Parameter/Container - Preservation Key

- *1 - Volatile Organics = BTEX, GRO, TPH, Full List
- *2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
- *3 - General = pH, Chloride, Flouride, Alkalinity, TSS, TDS, TS, Sulfate
- *4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice? Y N	Date	Time	Received by:	Date	Time
Kim Shannon	Y	9/15/09	1705		9/15/09	5:04pm
Relinquished By:	On Ice? Y N	Date	Time	Received by:	Date	Time

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other _____

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

H:\RLG\STDFORMS\Chain Of Custody Form RLG Rev. 07/01/05

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [1]	Minnesota Tier SLV [4]	Minnesota SRV [5]	Minnesota Tier II Industrial SRV [6]
Metals										
Antimony	7440-36-0	Soil/Solid	6010B	0.0055	0.50	mg/kg	--	2.7	12	100
Arsenic	7440-38-2	Soil/Solid	6010B	0.10	0.50	mg/kg	--	15.1	9	20
Beryllium	7440-41-7	Soil/Solid	6010B	0.011	0.25	mg/kg	--	1.4	55	230
Cadmium	7440-43-9	Soil/Solid	6010B	0.025	0.25	mg/kg	--	4.4	25	200
Chromium	7440-47-3	Soil/Solid	6010B	0.012	0.50	mg/kg	--	1000000 (8)	44000 (8)	100000 (8)
Copper	7440-50-8	Soil/Solid	6010B	0.070	1.0	mg/kg	--	400	100	9000
Lead	7439-92-1	Soil/Solid	6010B	0.034	1.0	mg/kg	--	525	300	700
Nickel	7440-02-0	Soil/Solid	6010B	0.014	0.25	mg/kg	--	88	560	2500
Selenium	7782-49-2	Soil/Solid	6010B	0.11	1.0	mg/kg	--	1.5	160	1300
Silver	7440-22-4	Soil/Solid	6010B	0.0090	0.25	mg/kg	--	3.9	160	1300
Thallium	7440-28-0	Soil/Solid	6010B	0.13	2.0	mg/kg	--	--	3	21
Zinc	7440-66-6	Soil/Solid	6010B	0.22	1.0	mg/kg	--	1500	8700	75000
Metals										
Antimony	7440-36-0	Water/Liquid	6020	0.046	0.500	ug/L	6	--	--	--
Arsenic	7440-38-2	Water/Liquid	6010B	2	10.000	ug/L	--	--	--	--
Beryllium	7440-41-7	Water/Liquid	6020	0.027	0.5000	ug/L	0.08	--	--	--
Cadmium	7440-43-9	Water/Liquid	6010B	0.099	1.0000	ug/L	4	--	--	--
Chromium	7440-47-3	Water/Liquid	6010B	0.24	10.000	ug/L	100 (5)	--	--	--
Copper	7440-50-8	Water/Liquid	6010B	1.4	20.000	ug/L	--	--	--	--
Lead	7439-92-1	Water/Liquid	6010B	0.68	3.0000	ug/L	--	--	--	--
Nickel	7440-02-0	Water/Liquid	6010B	0.28	5.0000	ug/L	100	--	--	--
Selenium	7782-49-2	Water/Liquid	6010B	2.2	20.000	ug/L	30	--	--	--
Silver	7440-22-4	Water/Liquid	6010B	0.18	5.0000	ug/L	30	--	--	--
Thallium	7440-28-0	Water/Liquid	6020	0.0081	0.500	ug/L	0.5	--	--	--
Zinc	7440-66-6	Water/Liquid	6010B	4.4	20.000	ug/L	2000	--	--	--
Mercury										
Mercury	7439-97-6	Soil/Solid	7471A	0.0031	0.10	mg/kg	--	1.5 C	0.5	1.5
Mercury	7439-97-6	Water/Liquid	7470A	0.000031	0.00020	mg/L	--	--	--	--
Nitrate+Nitrite Nitrogen as N (Braun)										
N+N Nitrogen as N	NA	Water/Liquid	SM4500-NO3-F	0.007	0.02	mg/L	10 (3)	--	--	--
Total Kjeldahl Nitrogen (Braun)										
TKN as N	NA	Water/Liquid	SM4500-NH3-C	0.17	0.5	mg/L	--	--	--	--
Perchlorate (TA)										
Perchlorate	NA	Water/Liquid	314	0.36	4	ug/L	--	--	--	--
Nitrocellulose (TA)										
Nitrocellulose	NA	Soil/Solid	353.2Mod	0.78	0.5	mg/kg	--	--	--	--
Nitrocellulose (TA)										
Nitrocellulose	NA	Water/Liquid	353.2Mod	0.124	0.5	mg/L	--	--	--	--
Organochlorine Pesticides										
4,4'-DDD	72-54-8	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	56	125
4,4'-DDE	72-55-9	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	40	80
4,4'-DDT	50-29-3	Soil/Solid	8081A	0.0020	0.040	mg/kg	--	--	15	88
a-Chlordane	5103-71-9	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	--	--
Aldrin	309-00-2	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	1	2
alpha-BHC	319-84-6	Soil/Solid	8081A	0.0011	0.040	mg/kg	--	--	2	3.5
beta-BHC	319-85-7	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	7	15
delta-BHC	319-86-8	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	--	--
Dieldrin	60-57-1	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	0.8	2
Endosulfan I	959-98-8	Soil/Solid	8081A	0.0013	0.040	mg/kg	--	--	--	--
Endosulfan II	891-86-1	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
Endosulfan sulfate	1031-07-8	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
Endrin	72-20-8	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	8	56
Endrin aldehyde	7421-93-4	Soil/Solid	8081A	0.0041	0.040	mg/kg	--	--	--	--
Endrin ketone	53494-70-5	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
gamma-BHC (Lindane)	58-89-9	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	9	15
gamma-Chlordane	5566-34-7	Soil/Solid	8081A	0.0017	0.040	mg/kg	--	--	--	--
Heptachlor	76-44-8	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	2	3.5
Heptachlor epoxide	1024-57-3	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	0.4	3
Methoxychlor	72-43-5	Soil/Solid	8081A	0.0019	0.040	mg/kg	--	--	11	50
Toxaphene	8001-35-2	Soil/Solid	8081A	0.015	0.080	mg/kg	--	--	13	28
Organochlorine Pesticides										
4,4'-DDD	72-54-8	Water/Liquid	8081A	0.026	0.40	ug/L	1	--	--	--
4,4'-DDE	72-55-9	Water/Liquid	8081A	0.037	0.40	ug/L	1	--	--	--
4,4'-DDT	50-29-3	Water/Liquid	8081A	0.031	0.40	ug/L	1	--	--	--
a-Chlordane	5103-71-9	Water/Liquid	8081A	0.030	0.40	ug/L	--	--	--	--
Aldrin	309-00-2	Water/Liquid	8081A	0.036	0.40	ug/L	--	--	--	--
alpha-BHC	319-84-6	Water/Liquid	8081A	0.026	0.40	ug/L	--	--	--	--
beta-BHC	319-85-7	Water/Liquid	8081A	0.026	0.40	ug/L	--	--	--	--
delta-BHC	319-86-8	Water/Liquid	8081A	0.023	0.40	ug/L	--	--	--	--
Dieldrin	60-57-1	Water/Liquid	8081A	0.031	0.40	ug/L	0.006 (4)	--	--	--
Endosulfan I	959-98-8	Water/Liquid	8081A	0.032	0.40	ug/L	--	--	--	--
Endosulfan II	891-86-1	Water/Liquid	8081A	0.035	0.40	ug/L	--	--	--	--

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [1]	Minnesota Tier SLV [4]	Minnesota SRV [5]	Minnesota Tier II Industrial SRV [6]
Endosulfan sulfate	1031-07-8	Water/Liquid	8081A	0.034	0.40	ug/L	--	--	--	--
Endrin	72-20-8	Water/Liquid	8081A	0.029	0.40	ug/L	--	--	--	--
Endrin aldehyde	7421-93-4	Water/Liquid	8081A	0.044	0.40	ug/L	--	--	--	--
Endrin ketone	53494-70-5	Water/Liquid	8081A	0.031	0.40	ug/L	--	--	--	--
gamma-BHC (Lindane)	58-89-9	Water/Liquid	8081A	0.024	0.40	ug/L	--	--	--	--
gamma-Chlordane	5566-34-7	Water/Liquid	8081A	0.030	0.40	ug/L	--	--	--	--
Heptachlor	76-44-8	Water/Liquid	8081A	0.028	0.40	ug/L	0.08	--	--	--
Heptachlor epoxide	1024-57-3	Water/Liquid	8081A	0.030	0.40	ug/L	0.04	--	--	--
Methoxychlor	72-43-5	Water/Liquid	8081A	0.032	0.40	ug/L	--	--	--	--
Toxaphene	8001-35-2	Water/Liquid	8081A	0.069	1.00	ug/L	0.3	--	--	--
MDA List 1 Pesticides (Braun)										
EPTC	759-94-4	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Propachlor	1918-16-7	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Ethalfluralin	55283-68-6	Soil/Solid	8270C	0.014	0.04	mg/kg	--	--	--	--
Deisopropylatrazine	1007-28-9	Soil/Solid	8270C	0.0080	0.04	mg/kg	--	--	--	--
Trifluralin	1582-09-8	Soil/Solid	8270C	0.014	0.04	mg/kg	--	--	--	--
Desethylatrazine	6190-65-4	Soil/Solid	8270C	0.011	0.04	mg/kg	--	--	--	--
Phorate	298-02-2	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Prometon	1610-18-0	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Simazine	122-34-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Atrazine	1912-24-9	Soil/Solid	8270C	0.0100	0.04	mg/kg	--	--	--	--
Propazine	139-40-2	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Terbufos	13071-79-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	0.6	3.5
Fonofos	944-22-9	Soil/Solid	8270C	0.0040	0.04	mg/kg	--	--	--	--
Triallate	2303-17-5	Soil/Solid	8270C	0.0050	0.04	mg/kg	--	--	--	--
Metribuzin	21087-64-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Dimethenamid	87674-68-8	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Acetochlor	34256-82-1	Soil/Solid	8270C	0.010	0.04	mg/kg	--	--	--	--
Alachlor	15972-60-8	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Cyanazine	21725-46-2	Soil/Solid	8270C	0.0080	0.04	mg/kg	--	--	--	--
Metolachlor	51218-45-2	Soil/Solid	8270C	0.0030	0.04	mg/kg	--	--	435	3300
Chlorpyrifos	2921-88-2	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Pendimethalin	40487-42-1	Soil/Solid	8270C	0.016	0.04	mg/kg	--	--	--	--
MDA List 1 Pesticides (Braun)										
EPTC	759-94-4	Water/Liquid	8270C	0.22	0.50	ug/L	200	--	--	--
Propachlor	1918-16-7	Water/Liquid	8270C	0.14	0.50	ug/L	--	--	--	--
Ethalfluralin	55283-68-6	Water/Liquid	8270C	0.47	0.50	ug/L	300 (1)	--	--	--
Deisopropylatrazine	1007-28-9	Water/Liquid	8270C	0.26	0.50	ug/L	--	--	--	--
Trifluralin	1582-09-8	Water/Liquid	8270C	0.21	0.50	ug/L	5 (1)	--	--	--
Desethylatrazine	6190-65-4	Water/Liquid	8270C	0.29	0.50	ug/L	--	--	--	--
Phorate	298-02-2	Water/Liquid	8270C	0.58	1.00	ug/L	1 (1)	--	--	--
Prometon	1610-18-0	Water/Liquid	8270C	0.29	0.50	ug/L	100	--	--	--
Simazine	122-34-9	Water/Liquid	8270C	0.32	0.50	ug/L	4 (3)	--	--	--
Atrazine	1912-24-9	Water/Liquid	8270C	0.24	0.50	ug/L	3 (3)	--	--	--
Propazine	139-40-2	Water/Liquid	8270C	0.21	0.50	ug/L	10 (1)	--	--	--
Terbufos	13071-79-9	Water/Liquid	8270C	0.54	1.00	ug/L	0.2 (1)	--	--	--
Fonofos	944-22-9	Water/Liquid	8270C	0.30	0.50	ug/L	10 (1)	--	--	--
Triallate	2303-17-5	Water/Liquid	8270C	0.34	0.50	ug/L	9 (1)	--	--	--
Metribuzin	21087-64-9	Water/Liquid	8270C	0.35	0.50	ug/L	200	--	--	--
Dimethenamid	87674-68-8	Water/Liquid	8270C	0.24	0.50	ug/L	40 (1)	--	--	--
Acetochlor	34256-82-1	Water/Liquid	8270C	0.25	0.50	ug/L	9 (4)	--	--	--
Alachlor	15972-60-8	Water/Liquid	8270C	0.19	0.50	ug/L	5 (4)	--	--	--
Cyanazine	21725-46-2	Water/Liquid	8270C	0.48	0.50	ug/L	1	--	--	--
Metolachlor	51218-45-2	Water/Liquid	8270C	0.28	0.50	ug/L	300 (4)	--	--	--
Chlorpyrifos	2921-88-2	Water/Liquid	8270C	0.34	0.50	ug/L	20 (1)	--	--	--
Pendimethalin	40487-42-1	Water/Liquid	8270C	0.25	0.50	ug/L	--	--	--	--
MDA List 2 Pesticides (Braun)										
Dicamba	1918-00-9	Soil/Solid	8270C	0.008	0.50	mg/kg	--	--	--	--
MCPA	94-74-6	Soil/Solid	8270C	0.014	0.50	mg/kg	--	--	16	110
2,4-D	94-75-7	Soil/Solid	8270C	0.012	0.50	mg/kg	--	--	285	2200
Trichlopyr	55336-06-3	Soil/Solid	8270C	0.008	0.50	mg/kg	--	--	--	--
Pentachlorophenol	87-86-5	Soil/Solid	8270C	0.007	0.50	mg/kg	--	--	80	120
2,4,5-T.P.	93-72-1	Soil/Solid	8270C	0.007	0.50	mg/kg	--	--	--	--
2,4,5-T	93-76-5	Soil/Solid	8270C	0.009	0.50	mg/kg	--	--	290	2150
Dinoseb	88-85-7	Soil/Solid	8270C	0.005	0.50	mg/kg	--	--	--	--
2,4-D.B.	94-82-6	Soil/Solid	8270C	0.011	0.50	mg/kg	--	--	226	1750
Bentazone	25057-89-0	Soil/Solid	8270C	0.009	0.50	mg/kg	--	--	--	--
Picloram	1918-02-1	Soil/Solid	8270C	0.011	0.50	mg/kg	--	--	2000	15000
MDA List 2 Pesticides (Braun)										
Dicamba	1918-00-9	Water/Liquid	8270C	0.38	0.50	ug/L	200	--	--	--

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Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [1]	Minnesota Tier SLV [2]	Minnesota SRV [3]	Minnesota Tier II Industrial SRV [4]
MCPA	94-74-6	Water/Liquid	8270C	0.29	0.30	ug/L	--	--	--	--
2,4-D	94-75-7	Water/Liquid	8270C	0.26	0.50	ug/L	70	--	--	--
Trichlopyr	55336-06-3	Water/Liquid	8270C	0.41	0.50	ug/L	300 (1)	--	--	--
Pentachlorophenol	87-86-5	Water/Liquid	8270C	0.39	0.50	ug/L	1 (3)	--	--	--
2,4,5-T.P.	93-72-1	Water/Liquid	8270C	0.28	0.50	ug/L	50 (3)	--	--	--
2,4,5-T	93-76-5	Water/Liquid	8270C	0.31	0.50	ug/L	--	--	--	--
Dinoseb	88-85-7	Water/Liquid	8270C	0.34	0.50	ug/L	7 (1)	--	--	--
2,4-D.B.	94-82-6	Water/Liquid	8270C	0.15	0.50	ug/L	60 (1)	--	--	--
Bentazone	25057-89-0	Water/Liquid	8270C	0.22	0.50	ug/L	200 (1)	--	--	--
Picloram	1918-02-1	Water/Liquid	8270C	0.25	0.50	ug/L	500	--	--	--
PCBs										
Aroclor 1016	12674-11-2	Soil/Solid	8082	0.017	0.20	mg/kg	--	--	--	--
Aroclor 1221	11104-28-2	Soil/Solid	8082	0.039	0.20	mg/kg	--	--	--	--
Aroclor 1232	11141-16-5	Soil/Solid	8082	0.010	0.20	mg/kg	--	--	--	--
Aroclor 1242	53469-21-9	Soil/Solid	8082	0.016	0.20	mg/kg	--	--	--	--
Aroclor 1248	12672-29-6	Soil/Solid	8082	0.0078	0.20	mg/kg	--	--	--	--
Aroclor 1254	11097-69-1	Soil/Solid	8082	0.0071	0.20	mg/kg	--	--	--	--
Aroclor 1260	11096-82-5	Soil/Solid	8082	0.015	0.20	mg/kg	--	--	--	--
PCBs										
Aroclor 1016	12674-11-2	Water/Liquid	8082	0.41	2.0	ug/L	--	--	--	--
Aroclor 1221	11104-28-2	Water/Liquid	8082	0.36	2.0	ug/L	--	--	--	--
Aroclor 1232	11141-16-5	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1242	53469-21-9	Water/Liquid	8082	0.58	2.0	ug/L	--	--	--	--
Aroclor 1248	12672-29-6	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1254	11097-69-1	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1260	11096-82-5	Water/Liquid	8082	0.32	2.0	ug/L	--	--	--	--
VOCs - Soil/Solid										
1,1,1,2-Tetrachloroethane	630-20-6	Soil/Solid	8260B	0.019	0.25	mg/kg	--	1.4	31	51
1,1,1-Trichloroethane	71-55-6	Soil/Solid	8260B	0.0098	0.25	mg/kg	--	3.5	140	472
1,1,2,2-Tetrachloroethane	79-34-5	Soil/Solid	8260B	0.012	0.25	mg/kg	--	0.005	3.5	6.5
1,1,2-Trichloroethane	79-00-5	Soil/Solid	8260B	0.022	0.25	mg/kg	--	0.010	9	14
1,1,2-Trichlorotrifluoroethane	76-13-1	Soil/Solid	8260B	0.052	0.25	mg/kg	--	2580	3745	5430
1,1-Dichloroethane	75-34-3	Soil/Solid	8260B	0.013	0.25	mg/kg	--	0.18	34	55
1,1-Dichloroethene	75-35-4	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.025	20	60
1,1-Dichloropropene	563-58-6	Soil/Solid	8260B	0.021	0.25	mg/kg	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	Soil/Solid	8260B	0.063	0.50	mg/kg	--	--	--	--
1,2,3-Trichloropropane	96-18-4	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.35	--	--
1,2,4-Trichlorobenzene	120-82-1	Soil/Solid	8260B	0.052	0.50	mg/kg	--	0.31	200	985
1,2,4-Trimethylbenzene	95-63-6	Soil/Solid	8260B	0.013	0.25	mg/kg	--	--	8	25
1,2-Dibromo-3-chloropropane	96-12-8	Soil/Solid	8260B	0.079	0.50	mg/kg	--	0.001	--	--
1,2-Dibromoethane (EDB)	106-93-4	Soil/Solid	8260B	0.0056	0.25	mg/kg	--	0.00001	0.3	0.5
1,2-Dichlorobenzene	95-50-1	Soil/Solid	8260B	0.0055	0.25	mg/kg	--	8.1	26	75
1,2-Dichloroethane	107-06-2	Soil/Solid	8260B	0.030	0.25	mg/kg	--	0.010	4	6
1,2-Dichloropropane	78-87-5	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.011	4	6
1,3,5-Trimethylbenzene	108-67-8	Soil/Solid	8260B	0.0077	0.25	mg/kg	--	--	3	10
1,3-Dichlorobenzene	541-73-1	Soil/Solid	8260B	0.015	0.25	mg/kg	--	4.2	26	200
1,3-Dichloropropane	142-28-9	Soil/Solid	8260B	0.017	0.25	mg/kg	--	--	--	--
1,4-Dichlorobenzene	106-46-7	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.13	30	50
2,2-Dichloropropane	594-20-7	Soil/Solid	8260B	0.034	0.50	mg/kg	--	--	--	--
2-Butanone	78-93-3	Soil/Solid	8260B	0.069	2.0	mg/kg	--	--	5500	19000
2-Chlorotoluene	95-49-8	Soil/Solid	8260B	0.015	0.25	mg/kg	--	--	436	436
4-Chlorotoluene	106-43-4	Soil/Solid	8260B	0.015	0.25	mg/kg	--	--	--	--
Acetone	67-64-1	Soil/Solid	8260B	0.16	2.0	mg/kg	--	0.7	340	1000
Allyl chloride	107-05-1	Soil/Solid	8260B	0.016	0.50	mg/kg	--	0.032	--	--
Benzene	71-43-2	Soil/Solid	8260B	0.0070	0.25	mg/kg	--	0.034	6	10
Bromobenzene	108-86-1	Soil/Solid	8260B	0.017	0.25	mg/kg	--	--	--	--
Bromochloromethane	74-97-5	Soil/Solid	8260B	0.021	0.25	mg/kg	--	0.15	--	--
Bromodichloromethane	75-27-4	Soil/Solid	8260B	0.020	0.25	mg/kg	--	0.013	10	17
Bromoform	75-25-2	Soil/Solid	8260B	0.015	0.50	mg/kg	--	0.14	370	650
Bromomethane	74-83-9	Soil/Solid	8260B	0.012	0.50	mg/kg	--	0.5	0.7	2
Carbon tetrachloride	56-23-5	Soil/Solid	8260B	0.018	0.25	mg/kg	--	0.023	0.3	0.9
Chlorobenzene	108-90-7	Soil/Solid	8260B	0.011	0.25	mg/kg	--	1.1	11	32
Chloroethane	75-00-3	Soil/Solid	8260B	0.045	0.25	mg/kg	--	--	1000	3000
Chloroform	67-66-3	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.17	2.5	4
Chloromethane	74-87-3	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.006	8	23
cis-1,2-Dichloroethene	156-59-2	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.14	8	22
cis-1,3-Dichloropropene	10061-01-5	Soil/Solid	8260B	0.0098	0.25	mg/kg	--	0.005 M	--	--
Dibromochloromethane	124-48-1	Soil/Solid	8260B	0.014	0.25	mg/kg	--	0.03	12	20
Dibromomethane	74-95-3	Soil/Solid	8260B	0.021	0.25	mg/kg	--	--	260	1860
Dichlorodifluoromethane	75-71-8	Soil/Solid	8260B	0.035	0.50	mg/kg	--	38	16	50
Dichlorofluoromethane	75-43-4	Soil/Solid	8260B	0.014	0.25	mg/kg	--	--	--	--
Ethyl ether	60-29-7	Soil/Solid	8260B	0.017	0.50	mg/kg	--	1.2	--	--
Ethylbenzene	100-41-4	Soil/Solid	8260B	0.011	0.25	mg/kg	--	4.7	200	200
Hexachlorobutadiene	87-68-3	Soil/Solid	8260B	0.11	1.0	mg/kg	--	25	6	37
Isopropylbenzene	98-82-8	Soil/Solid	8260B	0.019	0.25	mg/kg	--	18	30	87

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UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits	Minnesota Tier SLV	Minnesota SRV	Minnesota Tier II Industrial SRV
m,p-Xylene	108-38-3/ 106-42-3	Soil/Solid	8260B	0.024	0.50	mg/kg	--	45 M	45 M	130 M
Methyl isobutyl ketone	108-10-1	Soil/Solid	8260B	0.031	0.50	mg/kg	--	0.42	1700	9000
Methyl tert-butyl ether	1634-04-4	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.027	--	--
Methylene chloride	75-09-2	Soil/Solid	8260B	0.043	1.0	mg/kg	--	0.068	97	158
Naphthalene	91-20-3	Soil/Solid	8260B	0.060	0.50	mg/kg	--	7.5	10	28
n-Butylbenzene	104-51-8	Soil/Solid	8260B	0.012	0.25	mg/kg	--	--	30	92
n-Propylbenzene	103-65-1	Soil/Solid	8260B	0.013	0.25	mg/kg	--	--	30	93
o-Xylene	95-47-6	Soil/Solid	8260B	0.015	0.25	mg/kg	--	45 M	45 M	130 M
p-Isopropyltoluene	99-87-6	Soil/Solid	8260B	0.014	0.25	mg/kg	--	--	--	--
sec-Butylbenzene	135-98-8	Soil/Solid	8260B	0.012	0.25	mg/kg	--	--	25	70
Styrene	100-42-5	Soil/Solid	8260B	0.012	0.25	mg/kg	--	1.9	210	600
tert-Butylbenzene	98-06-6	Soil/Solid	8260B	0.0073	0.25	mg/kg	--	--	30	90
Tetrachloroethene	127-18-4	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.068	72	131
Tetrahydrofuran	109-99-9	Soil/Solid	8260B	0.068	2.0	mg/kg	--	0.16	--	--
Toluene	108-88-3	Soil/Solid	8260B	0.0063	0.25	mg/kg	--	6.4	107	305
trans-1,2-Dichloroethene	156-60-5	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.27	11	33
trans-1,3-Dichloropropene	10061-02-6	Soil/Solid	8260B	0.013	0.25	mg/kg	--	0.005 M	--	--
Trichloroethene	79-01-6	Soil/Solid	8260B	0.013	0.25	mg/kg	--	0.14	29	46
Trichlorofluoromethane	75-69-4	Soil/Solid	8260B	0.035	0.25	mg/kg	--	22	67	195
Vinyl chloride	75-01-4	Soil/Solid	8260B	0.031	0.25	mg/kg	--	0.001	0.8	2.2
VOCs - Water/Liquid										
1,1,1,2-Tetrachloroethane	630-20-6	Water/Liquid	8260B	0.083	1.0	ug/L	70	--	--	--
1,1,1-Trichloroethane	71-55-6	Water/Liquid	8260B	0.098	1.0	ug/L	9000 (4)	--	--	--
1,1,2,2-Tetrachloroethane	79-34-5	Water/Liquid	8260B	0.084	1.0	ug/L	2	--	--	--
1,1,2-Trichloroethane	79-00-5	Water/Liquid	8260B	0.15	1.0	ug/L	3	--	--	--
1,1,2-Trichlorotrifluoroethane	76-13-1	Water/Liquid	8260B	0.10	1.0	ug/L	200000	--	--	--
1,1-Dichloroethane	75-34-3	Water/Liquid	8260B	0.094	1.0	ug/L	100 (7)	--	--	--
1,1-Dichloroethene	75-35-4	Water/Liquid	8260B	0.10	1.0	ug/L	200	--	--	--
1,1-Dichloropropene	563-58-6	Water/Liquid	8260B	0.099	1.0	ug/L	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	Water/Liquid	8260B	0.40	5.0	ug/L	--	--	--	--
1,2,3-Trichloropropane	96-18-4	Water/Liquid	8260B	0.13	2.5	ug/L	40	--	--	--
1,2,4-Trichlorobenzene	120-82-1	Water/Liquid	8260B	0.52	5.0	ug/L	--	--	--	--
1,2,4-Trimethylbenzene	95-63-6	Water/Liquid	8260B	0.052	1.0	ug/L	--	--	--	--
1,2-Dibromo-3-chloropropane	96-12-8	Water/Liquid	8260B	1.2	5.0	ug/L	--	--	--	--
1,2-Dibromoethane (EDB)	106-93-4	Water/Liquid	8260B	0.10	2.5	ug/L	0.004	--	--	--
1,2-Dichlorobenzene	95-50-1	Water/Liquid	8260B	0.12	1.0	ug/L	600	--	--	--
1,2-Dichloroethane	107-06-2	Water/Liquid	8260B	0.084	1.0	ug/L	4	--	--	--
1,2-Dichloropropane	78-87-5	Water/Liquid	8260B	0.13	1.0	ug/L	5	--	--	--
1,3,5-Trimethylbenzene	108-67-8	Water/Liquid	8260B	0.066	1.0	ug/L	100 (4) (6)	--	--	--
1,3-Dichlorobenzene	541-73-1	Water/Liquid	8260B	0.094	1.0	ug/L	--	--	--	--
1,3-Dichloropropane	142-28-9	Water/Liquid	8260B	0.074	1.0	ug/L	--	--	--	--
1,4-Dichlorobenzene	106-46-7	Water/Liquid	8260B	0.053	1.0	ug/L	10	--	--	--
2,2-Dichloropropane	594-20-7	Water/Liquid	8260B	0.23	5.0	ug/L	--	--	--	--
2-Butanone	78-93-3	Water/Liquid	8260B	0.58	20	ug/L	4000	--	--	--
2-Chlorotoluene	95-49-8	Water/Liquid	8260B	0.077	1.0	ug/L	--	--	--	--
4-Chlorotoluene	106-43-4	Water/Liquid	8260B	0.059	1.0	ug/L	--	--	--	--
Acetone	67-64-1	Water/Liquid	8260B	0.69	20	ug/L	700	--	--	--
Allyl chloride	107-05-1	Water/Liquid	8260B	0.28	5.0	ug/L	30	--	--	--
Benzene	71-43-2	Water/Liquid	8260B	0.047	1.0	ug/L	2 (4)	--	--	--
Bromobenzene	108-86-1	Water/Liquid	8260B	0.084	1.0	ug/L	--	--	--	--
Bromochloromethane	74-97-5	Water/Liquid	8260B	0.075	1.0	ug/L	--	--	--	--
Bromodichloromethane	75-27-4	Water/Liquid	8260B	0.13	1.0	ug/L	8	--	--	--
Bromoform	75-25-2	Water/Liquid	8260B	0.074	5.0	ug/L	40	--	--	--
Bromomethane	74-83-9	Water/Liquid	8260B	0.26	5.0	ug/L	10	--	--	--
Carbon tetrachloride	56-23-5	Water/Liquid	8260B	0.074	1.0	ug/L	3	--	--	--
Chlorobenzene	108-90-7	Water/Liquid	8260B	0.025	1.0	ug/L	100	--	--	--
Chloroethane	75-00-3	Water/Liquid	8260B	0.26	2.5	ug/L	--	--	--	--
Chloroform	67-66-3	Water/Liquid	8260B	0.098	1.0	ug/L	30 (4) (6)	--	--	--
Chloromethane	74-87-3	Water/Liquid	8260B	0.098	2.5	ug/L	--	--	--	--
cis-1,2-Dichloroethene	156-59-2	Water/Liquid	8260B	0.12	1.0	ug/L	50 (4)	--	--	--
cis-1,3-Dichloropropene	10061-01-5	Water/Liquid	8260B	0.11	1.0	ug/L	--	--	--	--
Dibromochloromethane	124-48-1	Water/Liquid	8260B	0.084	2.5	ug/L	10	--	--	--
Dibromomethane	74-95-3	Water/Liquid	8260B	0.14	2.5	ug/L	--	--	--	--
Dichlorodifluoromethane	75-71-8	Water/Liquid	8260B	0.39	5.0	ug/L	700 (4)	--	--	--
Dichlorofluoromethane	75-43-4	Water/Liquid	8260B	0.070	1.0	ug/L	--	--	--	--
Ethyl ether	60-29-7	Water/Liquid	8260B	0.10	5.0	ug/L	1000	--	--	--
Ethylbenzene	100-41-4	Water/Liquid	8260B	0.055	1.0	ug/L	700	--	--	--
Hexachlorobutadiene	87-68-3	Water/Liquid	8260B	0.58	10	ug/L	1	--	--	--
Isopropylbenzene	98-82-8	Water/Liquid	8260B	0.068	1.0	ug/L	300	--	--	--
m,p-Xylene	108-38-3 106-42-3	Water/Liquid	8260B	0.14	2.0	ug/L	10000 M	--	--	--
Methyl isobutyl ketone	108-10-1	Water/Liquid	8260B	0.13	5.0	ug/L	300	--	--	--
Methyl tert-butyl ether	1634-04-4	Water/Liquid	8260B	0.079	1.0	ug/L	--	--	--	--

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [a]	Minnesota Tier SLV [a]	Minnesota SRV [a]	Minnesota Tier II Industrial SRV [a]
Methylene chloride	75-09-2	Water/Liquid	8260B	0.29	5.0	ug/L	5 (3)	--	--	--
Naphthalene	91-20-3	Water/Liquid	8260B	0.38	5.0	ug/L	300	--	--	--
n-Butylbenzene	104-51-8	Water/Liquid	8260B	0.094	2.5	ug/L	--	--	--	--
n-Propylbenzene	103-65-1	Water/Liquid	8260B	0.079	1.0	ug/L	--	--	--	--
o-Xylene	95-47-6	Water/Liquid	8260B	0.074	1.0	ug/L	10000 M	--	--	--
p-Isopropyltoluene	99-87-6	Water/Liquid	8260B	0.087	2.5	ug/L	--	--	--	--
sec-Butylbenzene	135-98-8	Water/Liquid	8260B	0.030	1.0	ug/L	--	--	--	--
Styrene	100-42-5	Water/Liquid	8260B	0.072	1.0	ug/L	--	--	--	--
tert-Butylbenzene	98-06-6	Water/Liquid	8260B	0.046	1.0	ug/L	--	--	--	--
Tetrachloroethene	127-18-4	Water/Liquid	8260B	0.10	1.0	ug/L	5 (3)	--	--	--
Tetrahydrofuran	109-99-9	Water/Liquid	8260B	0.76	20	ug/L	--	--	--	--
Toluene	108-88-3	Water/Liquid	8260B	0.036	1.0	ug/L	1000	--	--	--
trans-1,2-Dichloroethene	156-60-5	Water/Liquid	8260B	0.14	1.0	ug/L	100	--	--	--
trans-1,3-Dichloropropene	10061-02-6	Water/Liquid	8260B	0.082	1.0	ug/L	--	--	--	--
Trichloroethene	79-01-6	Water/Liquid	8260B	0.097	1.0	ug/L	5 (3)	--	--	--
Trichlorofluoromethane	75-69-4	Water/Liquid	8260B	0.17	1.0	ug/L	2000	--	--	--
Vinyl chloride	75-01-4	Water/Liquid	8260B	0.10	1.0	ug/L	0.2 (4)	--	--	--
SemiVolatile Organics										
1,2,4-Trichlorobenzene	120-82-1	Soil/Solid	8270C	0.020	0.33	mg/kg	--	0.31	200	985
1,2-Dichlorobenzene	95-50-1	Soil/Solid	8270C	0.012	0.33	mg/kg	--	8.1	26	75
1,2-Diphenylhydrazine as Azobenzene	103-33-3	Soil/Solid	8270C	0.039	0.33	mg/kg	--	--	--	--
1,3-Dichlorobenzene	541-73-1	Soil/Solid	8270C	0.014	0.33	mg/kg	--	4.2	26	200
1,4-Dichlorobenzene	106-46-7	Soil/Solid	8270C	0.013	0.33	mg/kg	--	0.13	30	50
2,3,4,6-Tetrachlorophenol	58-90-2	Soil/Solid	8270C	0.072	0.67	mg/kg	--	--	636	3700
2,4,5-Trichlorophenol	95-95-4	Soil/Solid	8270C	0.039	0.67	mg/kg	--	--	1920	10600
2,4,6-Trichlorophenol	88-06-2	Soil/Solid	8270C	0.081	0.67	mg/kg	--	0.21	595	1060
2,4-Dichlorophenol	120-83-2	Soil/Solid	8270C	0.046	0.67	mg/kg	--	0.076	46	230
2,4-Dimethylphenol	105-67-9	Soil/Solid	8270C	0.079	0.67	mg/kg	--	0.34	390	1925
2,4-Dinitrophenol	51-28-5	Soil/Solid	8270C	0.064	0.67	mg/kg	--	0.014	--	--
2,4-Dinitrotoluene	121-14-2	Soil/Solid	8270C	0.044	0.33	mg/kg	--	0.001	50	355
2,6-Dichlorophenol	87-65-0	Soil/Solid	8270C	0.042	0.67	mg/kg	--	--	--	--
2,6-Dinitrotoluene	606-20-2	Soil/Solid	8270C	0.040	0.33	mg/kg	--	0.001	25	175
2-Chloronaphthalene	91-58-7	Soil/Solid	8270C	0.018	0.33	mg/kg	--	--	--	--
2-Chlorophenol	95-57-8	Soil/Solid	8270C	0.029	0.67	mg/kg	--	0.26	--	--
2-Methylnaphthalene	91-57-6	Soil/Solid	8270C	0.021	0.33	mg/kg	--	--	100	369
2-Methylphenol	95-48-7	Soil/Solid	8270C	0.019	0.67	mg/kg	--	0.064	75	352
2-Nitroaniline	88-74-4	Soil/Solid	8270C	0.041	0.33	mg/kg	--	--	--	--
2-Nitrophenol	88-75-5	Soil/Solid	8270C	0.040	0.67	mg/kg	--	0.60	--	--
3,3'-Dichlorobenzidine	91-94-1	Soil/Solid	8270C	0.21	1.6	mg/kg	--	0.36	25	50
3-Nitroaniline	99-09-2	Soil/Solid	8270C	0.041	0.33	mg/kg	--	--	--	--
4,6-Dinitro-2-methylphenol	534-52-1	Soil/Solid	8270C	0.097	0.67	mg/kg	--	--	--	--
4-Bromophenyl phenyl ether	101-55-3	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	--	--
4-Chloro-3-methylphenol	59-50-7	Soil/Solid	8270C	0.075	0.67	mg/kg	--	--	--	--
4-Chloroaniline	106-47-8	Soil/Solid	8270C	0.022	0.67	mg/kg	--	--	--	--
4-Chlorophenyl phenyl ether	7005-72-3	Soil/Solid	8270C	0.024	0.33	mg/kg	--	--	--	--
4-Methylphenol	106-44-5	Soil/Solid	8270C	0.017	0.67	mg/kg	--	0.033	10	59
4-Nitroaniline	100-01-6	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	--	--
4-Nitrophenol	100-02-7	Soil/Solid	8270C	0.081	0.67	mg/kg	--	--	--	--
Acenaphthene	83-32-9	Soil/Solid	8270C	0.020	0.33	mg/kg	--	50	1200	5260
Acenaphthylene	208-96-8	Soil/Solid	8270C	0.031	0.33	mg/kg	--	--	--	--
Aniline	62-53-3	Soil/Solid	8270C	0.034	0.67	mg/kg	--	--	--	--
Anthracene	120-12-7	Soil/Solid	8270C	0.043	0.33	mg/kg	--	942	7880	45400
Benzidine	92-87-5	Soil/Solid	8270C	0.71	2.5	mg/kg	--	--	--	--
Benzo (a) anthracene	56-55-3	Soil/Solid	8270C	0.045	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (a) pyrene	50-32-8	Soil/Solid	8270C	0.049	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (b) fluoranthene	205-99-2	Soil/Solid	8270C	0.048	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (g,h,i) perylene	191-24-2	Soil/Solid	8270C	0.050	0.33	mg/kg	--	--	--	--
Benzo (k) fluoranthene	207-08-9	Soil/Solid	8270C	0.053	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzoic acid	65-85-0	Soil/Solid	8270C	0.036	0.33	mg/kg	--	30	50000	100000
Benzyl alcohol	100-51-6	Soil/Solid	8270C	0.11	0.67	mg/kg	--	--	8700	56000
Bis(2-chloroethoxy)methane	111-91-1	Soil/Solid	8270C	0.021	0.33	mg/kg	--	--	--	--
Bis(2-chloroethyl)ether	111-44-4	Soil/Solid	8270C	0.013	0.33	mg/kg	--	0.001	2.5	5
Bis(2-chloroisopropyl)ether	39638-32-9	Soil/Solid	8270C	0.017	0.33	mg/kg	--	--	--	--
Bis(2-ethylhexyl)phthalate	117-81-7	Soil/Solid	8270C	0.046	0.33	mg/kg	--	40	570	2100
Butyl benzyl phthalate	85-68-7	Soil/Solid	8270C	0.047	0.33	mg/kg	--	28	580	3700
Carbazole	86-74-8	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	700	1310
Chrysene	218-01-9	Soil/Solid	8270C	0.049	0.33	mg/kg	--	10.2 T	2 T	3 T
Dibenz (a,h) anthracene	53-70-3	Soil/Solid	8270C	0.053	0.33	mg/kg	--	10.2 T	2 T	3 T
Dibenzofuran	132-64-9	Soil/Solid	8270C	0.022	0.33	mg/kg	--	--	104	810

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits	Minnesota Tier SLV [4]	Minnesota SRV [5]	Minnesota Tier II Industrial SRV [6]
Diethyl phthalate	84-66-2	Soil/Solid	8270C	0.045	0.33	mg/kg	--	18	--	--
Dimethyl phthalate	131-11-3	Soil/Solid	8270C	0.043	0.33	mg/kg	--	172	--	--
Di-n-butyl phthalate	84-74-2	Soil/Solid	8270C	0.054	0.33	mg/kg	--	23	2440	16300
Di-n-octyl phthalate	117-84-0	Soil/Solid	8270C	0.056	0.33	mg/kg	--	--	520	3700
Fluoranthene	206-44-0	Soil/Solid	8270C	0.047	0.33	mg/kg	--	295	1080	6800
Fluorene	86-73-7	Soil/Solid	8270C	0.011	0.33	mg/kg	--	47	850	4120
Hexachlorobenzene	118-74-1	Soil/Solid	8270C	0.041	0.33	mg/kg	--	0.32	5	9
Hexachlorobutadiene	87-68-3	Soil/Solid	8270C	0.035	0.33	mg/kg	--	25	6	37
Hexachlorocyclopentadiene	77-47-4	Soil/Solid	8270C	0.030	0.33	mg/kg	--	4.4	2	6
Hexachloroethane	67-72-1	Soil/Solid	8270C	0.018	0.33	mg/kg	--	0.050	--	--
Indeno (1,2,3-cd) pyrene	193-39-5	Soil/Solid	8270C	0.042	0.33	mg/kg	--	10.2 T	2 T	3 T
Isophorone	78-59-1	Soil/Solid	8270C	0.018	0.33	mg/kg	--	0.16	--	--
Naphthalene	91-20-3	Soil/Solid	8270C	0.015	0.33	mg/kg	--	7.5	10	28
Nitrobenzene	98-95-3	Soil/Solid	8270C	0.014	0.33	mg/kg	--	--	--	--
N-Nitrosodimethylamine	62-75-9	Soil/Solid	8270C	0.028	0.33	mg/kg	--	0.82	--	--
N-Nitrosodi-n-propylamine	621-64-7	Soil/Solid	8270C	0.014	0.33	mg/kg	--	--	0.7	1.2
N-Nitrosodiphenylamine ***	86-30-6	Soil/Solid	8270C	0.045	0.33	mg/kg	--	0.88	1950	3720
Diphenylamine ***	122-39-4	Soil/Solid	8270C	--	--	--	--	--	--	--
Pentachlorophenol	87-86-5	Soil/Solid	8270C	0.081	0.67	mg/kg	--	0.034	80	120
Phenanthrene	85-01-8	Soil/Solid	8270C	0.026	0.33	mg/kg	--	--	--	--
Phenol	108-95-2	Soil/Solid	8270C	0.027	0.67	mg/kg	--	7.8	1500	20203
Pyrene	129-00-0	Soil/Solid	8270C	0.046	0.33	mg/kg	--	272	890	5800
2,4-Dinitrotoluene (DNT)	121-14-2	Soil/Solid	8270C	0.063	3.0	mg/kg	--	0.001	50	355
2,6-Dinitrotoluene (DNT)	606-20-2	Soil/Solid	8270C	0.13	3.0	mg/kg	--	0.001	25	175
SemiVolatile Organics										
1,2,4-Trichlorobenzene	120-82-1	Water/Liquid	8270C	0.28	10	ug/L	--	--	--	--
1,2-Dichlorobenzene	95-50-1	Water/Liquid	8270C	0.21	10	ug/L	600	--	--	--
1,2-Diphenylhydrazine as Azobenzene	103-33-3	Water/Liquid	8270C	0.20	10	ug/L	--	--	--	--
1,3-Dichlorobenzene	541-73-1	Water/Liquid	8270C	0.21	10	ug/L	--	--	--	--
1,4-Dichlorobenzene	106-46-7	Water/Liquid	8270C	0.18	10	ug/L	10	--	--	--
2,3,4,6-Tetrachlorophenol	58-90-2	Water/Liquid	8270C	1.0	10	ug/L	--	--	--	--
2,4,5-Trichlorophenol	95-95-4	Water/Liquid	8270C	0.85	10	ug/L	--	--	--	--
2,4,6-Trichlorophenol	88-06-2	Water/Liquid	8270C	0.89	10	ug/L	30	--	--	--
2,4-Dichlorophenol	120-83-2	Water/Liquid	8270C	0.78	10	ug/L	20	--	--	--
2,4-Dimethylphenol	105-67-9	Water/Liquid	8270C	0.78	10	ug/L	100	--	--	--
2,4-Dinitrophenol	51-28-5	Water/Liquid	8270C	0.50	10	ug/L	10	--	--	--
2,4-Dinitrotoluene	121-14-2	Water/Liquid	8270C	0.49	10	ug/L	0.5 (2)	--	--	--
2,6-Dichlorophenol	87-65-0	Water/Liquid	8270C	0.78	10	ug/L	--	--	--	--
2,6-Dinitrotoluene	606-20-2	Water/Liquid	8270C	0.39	10	ug/L	0.5 (2)	--	--	--
2-Chloronaphthalene	91-58-7	Water/Liquid	8270C	0.20	10	ug/L	--	--	--	--
2-Chlorophenol	95-57-8	Water/Liquid	8270C	0.66	10	ug/L	30	--	--	--
2-Methylnaphthalene	91-57-6	Water/Liquid	8270C	0.32	10	ug/L	--	--	--	--
2-Methylphenol	95-48-7	Water/Liquid	8270C	0.77	10	ug/L	30	--	--	--
2-Nitroaniline	88-74-4	Water/Liquid	8270C	0.92	10	ug/L	--	--	--	--
2-Nitrophenol	88-75-5	Water/Liquid	8270C	1.0	10	ug/L	--	--	--	--
3,3'-Dichlorobenzidine	91-94-1	Water/Liquid	8270C	7.1	25	ug/L	0.8	--	--	--
3-Nitroaniline	99-09-2	Water/Liquid	8270C	0.95	10	ug/L	--	--	--	--
4,6-Dinitro-2-methylphenol	534-52-1	Water/Liquid	8270C	0.90	10	ug/L	--	--	--	--
4-Bromophenyl phenyl ether	101-55-3	Water/Liquid	8270C	0.19	10	ug/L	--	--	--	--
4-Chloro-3-methylphenol	59-50-7	Water/Liquid	8270C	0.79	10	ug/L	--	--	--	--
4-Chloroaniline	106-47-8	Water/Liquid	8270C	1.0	10	ug/L	--	--	--	--
4-Chlorophenol	106-48-9	Water/Liquid	8270C	NA	NA	ug/L	--	--	--	--
4-Chlorophenyl phenyl ether	7005-72-3	Water/Liquid	8270C	0.15	10	ug/L	--	--	--	--
4-Methylphenol	106-44-5	Water/Liquid	8270C	0.82	10	ug/L	3	--	--	--
4-Nitroaniline	100-01-6	Water/Liquid	8270C	0.63	10	ug/L	--	--	--	--
4-Nitrophenol	100-02-7	Water/Liquid	8270C	1.2	10	ug/L	--	--	--	--
Acenaphthene	83-32-9	Water/Liquid	8270C	0.15	10	ug/L	400	--	--	--
Acenaphthylene	208-96-8	Water/Liquid	8270C	0.17	10	ug/L	--	--	--	--
Aniline	62-53-3	Water/Liquid	8270C	0.97	10	ug/L	--	--	--	--
Anthracene	120-12-7	Water/Liquid	8270C	0.19	10	ug/L	2000	--	--	--
Benzidine	92-87-5	Water/Liquid	8270C	23	100	ug/L	--	--	--	--
Benzo (a) anthracene	56-55-3	Water/Liquid	8270C	0.18	10	ug/L	--	--	--	--
Benzo (a) pyrene	50-32-8	Water/Liquid	8270C	0.22	10	ug/L	--	--	--	--
Benzo (b) fluoranthene	205-99-2	Water/Liquid	8270C	0.18	10	ug/L	--	--	--	--
Benzo (g,h,i) perylene	191-24-2	Water/Liquid	8270C	0.24	10	ug/L	--	--	--	--
Benzo (k) fluoranthene	207-08-9	Water/Liquid	8270C	0.21	10	ug/L	--	--	--	--
Benzoic acid	65-85-0	Water/Liquid	8270C	0.75	10	ug/L	30000	--	--	--
Benzyl alcohol	100-51-6	Water/Liquid	8270C	0.66	10	ug/L	--	--	--	--
Bis(2-chloroethoxy)methane	111-91-1	Water/Liquid	8270C	0.21	10	ug/L	--	--	--	--

P:\Mpls\23 MN\19\2319805 UMore park environmental\WorkFiles\Phase II Investigation WO#1 and #6\Phase II Work Plan\SSI_RI Work Plan\SAP\V2.0\Part 2-QAPP\Tables\Table 1

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LEGEND Technical Services, Inc.
www.legend-group.com

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [3]	Minnesota Tier SLV [4]	Minnesota SRV [5]	Minnesota Tier II Industrial SRV [6]
Bis(2-chloroethyl)ether	111-44-4	Water/Liquid	8270C	0.21	10	ug/L	0.3	--	--	--
Bis(2-chloroisopropyl)ether	39638-32-9	Water/Liquid	8270C	0.14	10	ug/L	--	--	--	--
Bis(2-ethylhexyl)phthalate	117-81-7	Water/Liquid	8270C	0.45	10	ug/L	20 (1)	--	--	--
Butyl benzyl phthalate	85-68-7	Water/Liquid	8270C	0.33	10	ug/L	100	--	--	--
Carbazole	86-74-8	Water/Liquid	8270C	0.24	10	ug/L	--	--	--	--
Chrysene	218-01-9	Water/Liquid	8270C	0.15	10	ug/L	--	--	--	--
Dibenz (a,h) anthracene	53-70-3	Water/Liquid	8270C	0.25	10	ug/L	--	--	--	--
Dibenzofuran	132-64-9	Water/Liquid	8270C	0.27	10	ug/L	--	--	--	--
Diethyl phthalate	84-66-2	Water/Liquid	8270C	0.32	10	ug/L	6000	--	--	--
Dimethyl phthalate	131-11-3	Water/Liquid	8270C	0.26	10	ug/L	70000	--	--	--
Di-n-butyl phthalate	84-74-2	Water/Liquid	8270C	0.33	10	ug/L	700	--	--	--
Di-n-octyl phthalate	117-84-0	Water/Liquid	8270C	0.42	10	ug/L	--	--	--	--
Fluoranthene	206-44-0	Water/Liquid	8270C	0.23	10	ug/L	300	--	--	--
Fluorene	86-73-7	Water/Liquid	8270C	0.16	10	ug/L	300	--	--	--
Hexachlorobenzene	118-74-1	Water/Liquid	8270C	0.15	10	ug/L	0.2	--	--	--
Hexachlorobutadiene	87-68-3	Water/Liquid	8270C	0.34	10	ug/L	1	--	--	--
Hexachlorocyclopentadiene	77-47-4	Water/Liquid	8270C	0.22	10	ug/L	--	--	--	--
Hexachloroethane	67-72-1	Water/Liquid	8270C	0.30	10	ug/L	--	--	--	--
Indeno (1,2,3-cd) pyrene	193-39-5	Water/Liquid	8270C	0.19	10	ug/L	--	--	--	--
Isophorone	78-59-1	Water/Liquid	8270C	0.23	10	ug/L	100	--	--	--
Naphthalene	91-20-3	Water/Liquid	8270C	0.19	10	ug/L	300	--	--	--
Nitrobenzene	98-95-3	Water/Liquid	8270C	0.26	10	ug/L	--	--	--	--
N-Nitrosodimethylamine	62-75-9	Water/Liquid	8270C	0.30	10	ug/L	--	--	--	--
N-Nitrosodi-n-propylamine	621-64-7	Water/Liquid	8270C	0.28	10	ug/L	--	--	--	--
N-Nitrosodiphenylamine ***	86-30-6	Water/Liquid	8270C	0.27	10	ug/L	70	--	--	--
Diphenylamine ***	122-39-4	Water/Liquid	8270C	--	--	--	--	--	--	--
Pentachlorophenol	87-86-5	Water/Liquid	8270C	0.99	10	ug/L	1 (3)	--	--	--
Phenanthrene	85-01-8	Water/Liquid	8270C	0.13	10	ug/L	--	--	--	--
Phenol	108-95-2	Water/Liquid	8270C	0.59	10	ug/L	4000	--	--	--
Pyrene	129-00-0	Water/Liquid	8270C	0.24	10	ug/L	200	--	--	--

Notes:
M - the values with this notation indicate the limit is for all combined isomers of this compound
T - the values with this notation represent the limit for the total carcinogenic PAHs as BaP
C - Mercury as mercuric chloride
(TA) - Legend Technical Services, Inc. will subcontract this analysis to Test America, West Sacramento, California.
(Braun) - Legend Technical Services, Inc. will subcontract this analysis to Braun Intertec, Minneapolis, MN.
(1) Not a HRL but a Health Based Value (HBV)
(2) (SRL)-Specific Risk Level (water concentration which corresponds to a riskof 1E-5.
(3) Not a HRL but an EPA Maximum Contaminant Level (MCL).
(4) Value is representative of the lowest exposure duration published in the 2008 Health Risk Limits.
(5) Value represents the criteria for Chromium, hexavalent.
(6) Set at short-term HRL.
(7) Not a HRL, but a Risk Assessment Advice (RAA).
(8) Value represents the criteria for Chromium, Trivalent.
[3] - Minnesota Department of Health, Health Risk Limit (HRL) unless noted otherwise.
[4] - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Soil Leaching Value (SLV)
[5] - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Soil Reference Value (SRV)
[6] - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Tier II Industrial SRV.

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October 05, 2009

Ms. Kelly Neppl
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0904166
RE: 23190B05.07

Enclosed are the results of analyses for samples received by the laboratory on 09/21/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of this report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

Terri Olson
Client Manager II
tolson@legend-group.com

Barb Rutten
Report Reviewer
brutten@legend-group.com

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904166
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/05/09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC4-TT12_0.5-0.5	0904166-01	Soil	09/17/09 11:00	09/21/09 11:40
M-1	0904166-02	Soil	09/17/09 00:00	09/21/09 11:40
FB-1	0904166-03	Water	09/17/09 11:30	09/21/09 11:40
SOC4-TT6_0.5-0.5	0904166-04	Soil	09/18/09 09:30	09/21/09 11:40
SOC5-SS7_0.5-0.5	0904166-05	Soil	09/18/09 12:00	09/21/09 11:40
SOC5-SS11_0.5-0.5	0904166-06	Soil	09/18/09 12:30	09/21/09 11:40
SOC5-SS47_0.5-0.5	0904166-07	Soil	09/18/09 13:00	09/21/09 11:40

Shipping Container Information

Default Cooler Temperature (°C):

Received on ice: Yes
Received on melt water: No
Custody seals: Yes

Temperature blank was not present
Ambient: No

Received on ice pack: No
Acceptable (IH/ISO only): No

Case Narrative:

MN Certification does not apply to carbazole in the 8270C analysis.

An LCS/LCSD were prepared and analyzed for 8082 batch B9I2902 instead of the method specified LCS/MS/MSD. Insufficient sample was received to meet method QC requirements.

Antimony and copper recoveries in the MS sample and copper recovery in the MSD sample for batch B9I2704 were below laboratory control limits. Recoveries in the LCS/LCSD samples and the corresponding RPDs were within limits. The MS/MSD source sample was SOC4-TT12_0.5-0.5.

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904166
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/05/09

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-TT12_0.5-0.5 (0904166-01) Soil Sampled: 09/17/09 11:00 Received: 09/21/09 11:40										
Antimony	<0.62	0.62	0.0068	mg/kg dry	1	B9I2704	09/27/09	10/02/09	EPA 6010B	M2
Arsenic	**8.1**	0.62	0.12	mg/kg dry	1	"	"	10/01/09	"	
Beryllium	**0.41**	0.31	0.014	mg/kg dry	1	"	"	"	"	
Cadmium	<0.31	0.31	0.031	mg/kg dry	1	"	"	"	"	
Chromium	**22**	0.62	0.015	mg/kg dry	1	"	"	"	"	
Copper	<1.2	1.2	0.086	mg/kg dry	1	"	"	"	"	M2
Lead	**16**	1.2	0.042	mg/kg dry	1	"	"	"	"	
Mercury	<0.12	0.12	0.0022	mg/kg dry	1	B9I2703	09/27/09	09/29/09	EPA 7471A	
Nickel	**15**	0.62	0.017	mg/kg dry	1	B9I2704	09/27/09	10/01/09	EPA 6010B	
Selenium	<1.2	1.2	0.14	mg/kg dry	1	"	"	"	"	
Silver	<0.31	0.31	0.011	mg/kg dry	1	"	"	"	"	
Thallium	<2.5	2.5	0.16	mg/kg dry	1	"	"	"	"	
Zinc	**58**	1.2	0.27	mg/kg dry	1	"	"	10/02/09	"	
M-1 (0904166-02) Soil Sampled: 09/17/09 00:00 Received: 09/21/09 11:40										
Antimony	<0.62	0.62	0.0068	mg/kg dry	1	B9I2704	09/27/09	10/02/09	EPA 6010B	
Arsenic	**8.0**	0.62	0.12	mg/kg dry	1	"	"	10/01/09	"	
Beryllium	**0.39**	0.31	0.014	mg/kg dry	1	"	"	"	"	
Cadmium	<0.31	0.31	0.031	mg/kg dry	1	"	"	"	"	
Chromium	**21**	0.62	0.015	mg/kg dry	1	"	"	"	"	
Copper	<1.2	1.2	0.086	mg/kg dry	1	"	"	"	"	
Lead	**16**	1.2	0.042	mg/kg dry	1	"	"	"	"	
Mercury	<0.12	0.12	0.0022	mg/kg dry	1	B9I2703	09/27/09	09/29/09	EPA 7471A	
Nickel	**15**	0.62	0.017	mg/kg dry	1	B9I2704	09/27/09	10/01/09	EPA 6010B	
Selenium	<1.2	1.2	0.14	mg/kg dry	1	"	"	"	"	
Silver	<0.31	0.31	0.011	mg/kg dry	1	"	"	"	"	
Thallium	<2.5	2.5	0.16	mg/kg dry	1	"	"	"	"	
Zinc	**58**	1.2	0.27	mg/kg dry	1	"	"	10/02/09	"	
SOC4-TT6_0.5-0.5 (0904166-04) Soil Sampled: 09/18/09 09:30 Received: 09/21/09 11:40										
Antimony	<0.60	0.60	0.0065	mg/kg dry	1	B9I2704	09/27/09	10/02/09	EPA 6010B	
Arsenic	**7.7**	0.60	0.12	mg/kg dry	1	"	"	10/01/09	"	
Beryllium	**0.34**	0.30	0.013	mg/kg dry	1	"	"	"	"	
Cadmium	<0.30	0.30	0.030	mg/kg dry	1	"	"	"	"	
Chromium	**20**	0.60	0.014	mg/kg dry	1	"	"	"	"	
Copper	<1.2	1.2	0.083	mg/kg dry	1	"	"	"	"	
Lead	**14**	1.2	0.040	mg/kg dry	1	"	"	"	"	
Mercury	<0.12	0.12	0.0021	mg/kg dry	1	B9I2703	09/27/09	09/29/09	EPA 7471A	
Nickel	**16**	0.60	0.017	mg/kg dry	1	B9I2704	09/27/09	10/01/09	EPA 6010B	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904166
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	10/05/09

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-TT6_0.5-0.5 (0904166-04) Soil Sampled: 09/18/09 09:30 Received: 09/21/09 11:40										
Selenium	<1.2	1.2	0.13	mg/kg dry	1	B9I2704	09/27/09	10/01/09	EPA 6010B	
Silver	<0.30	0.30	0.011	mg/kg dry	1	"	"	"	"	
Thallium	<2.4	2.4	0.15	mg/kg dry	1	"	"	"	"	
Zinc	**47**	1.2	0.26	mg/kg dry	1	"	"	10/02/09	"	
SOC5-SS7_0.5-0.5 (0904166-05) Soil Sampled: 09/18/09 12:00 Received: 09/21/09 11:40										
Antimony	<0.54	0.54	0.0059	mg/kg dry	1	B9I2704	09/27/09	10/02/09	EPA 6010B	
Arsenic	**4.2**	0.54	0.11	mg/kg dry	1	"	"	10/01/09	"	
Beryllium	<0.27	0.27	0.012	mg/kg dry	1	"	"	"	"	
Cadmium	<0.27	0.27	0.027	mg/kg dry	1	"	"	"	"	
Chromium	**13**	0.54	0.013	mg/kg dry	1	"	"	"	"	
Copper	<1.1	1.1	0.075	mg/kg dry	1	"	"	"	"	
Lead	**12**	1.1	0.037	mg/kg dry	1	"	"	"	"	
Mercury	<0.11	0.11	0.0019	mg/kg dry	1	B9I2703	09/27/09	09/29/09	EPA 7471A	
Nickel	**12**	0.54	0.015	mg/kg dry	1	B9I2704	09/27/09	10/01/09	EPA 6010B	
Selenium	<1.1	1.1	0.12	mg/kg dry	1	"	"	"	"	
Silver	<0.27	0.27	0.0097	mg/kg dry	1	"	"	"	"	
Thallium	<2.2	2.2	0.14	mg/kg dry	1	"	"	"	"	
Zinc	**33**	1.1	0.24	mg/kg dry	1	"	"	10/02/09	"	
SOC5-SS11_0.5-0.5 (0904166-06) Soil Sampled: 09/18/09 12:30 Received: 09/21/09 11:40										
Antimony	<0.58	0.58	0.0064	mg/kg dry	1	B9I2704	09/27/09	10/02/09	EPA 6010B	
Arsenic	**6.3**	0.58	0.12	mg/kg dry	1	"	"	10/01/09	"	
Beryllium	<0.29	0.29	0.013	mg/kg dry	1	"	"	"	"	
Cadmium	<0.29	0.29	0.029	mg/kg dry	1	"	"	"	"	
Chromium	**15**	0.58	0.014	mg/kg dry	1	"	"	"	"	
Copper	<1.2	1.2	0.081	mg/kg dry	1	"	"	"	"	
Lead	**14**	1.2	0.040	mg/kg dry	1	"	"	"	"	
Mercury	<0.12	0.12	0.0021	mg/kg dry	1	B9I2703	09/27/09	09/29/09	EPA 7471A	
Nickel	**11**	0.58	0.016	mg/kg dry	1	B9I2704	09/27/09	10/01/09	EPA 6010B	
Selenium	<1.2	1.2	0.13	mg/kg dry	1	"	"	"	"	
Silver	<0.29	0.29	0.010	mg/kg dry	1	"	"	"	"	
Thallium	<2.3	2.3	0.15	mg/kg dry	1	"	"	"	"	
Zinc	**45**	1.2	0.26	mg/kg dry	1	"	"	10/02/09	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904166
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	10/05/09

PCB 8082
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-TT12_0.5-0.5 (0904166-01) Soil Sampled: 09/17/09 11:00 Received: 09/21/09 11:40										
Aroclor 1016	<0.25	0.25	0.015	mg/kg dry	1	B9I2501	09/25/09	09/26/09	EPA 8082	
Aroclor 1221	<0.25	0.25	0.025	mg/kg dry	1	"	"	"	"	
Aroclor 1232	<0.25	0.25	0.019	mg/kg dry	1	"	"	"	"	
Aroclor 1242	<0.25	0.25	0.023	mg/kg dry	1	"	"	"	"	
Aroclor 1248	<0.25	0.25	0.014	mg/kg dry	1	"	"	"	"	
Aroclor 1254	<0.25	0.25	0.019	mg/kg dry	1	"	"	"	"	
Aroclor 1260	<0.25	0.25	0.014	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	*80.0*			*65.3-143 %*		"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	*93.5*			*60.9-138 %*		"	"	"	"	
M-1 (0904166-02) Soil Sampled: 09/17/09 00:00 Received: 09/21/09 11:40										
Aroclor 1016	<0.25	0.25	0.015	mg/kg dry	1	B9I2501	09/25/09	09/26/09	EPA 8082	
Aroclor 1221	<0.25	0.25	0.025	mg/kg dry	1	"	"	"	"	
Aroclor 1232	<0.25	0.25	0.019	mg/kg dry	1	"	"	"	"	
Aroclor 1242	<0.25	0.25	0.023	mg/kg dry	1	"	"	"	"	
Aroclor 1248	<0.25	0.25	0.014	mg/kg dry	1	"	"	"	"	
Aroclor 1254	<0.25	0.25	0.019	mg/kg dry	1	"	"	"	"	
Aroclor 1260	<0.25	0.25	0.014	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	*68.5*			*65.3-143 %*		"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	*83.5*			*60.9-138 %*		"	"	"	"	
FB-1 (0904166-03) Water Sampled: 09/17/09 11:30 Received: 09/21/09 11:40										
Aroclor 1016	<1.9	1.9	0.18	ug/L	1	B9I2902	09/29/09	10/02/09	EPA 8082	
Aroclor 1221	<1.9	1.9	0.20	ug/L	1	"	"	"	"	
Aroclor 1232	<1.9	1.9	0.19	ug/L	1	"	"	"	"	
Aroclor 1242	<1.9	1.9	0.31	ug/L	1	"	"	"	"	
Aroclor 1248	<1.9	1.9	0.49	ug/L	1	"	"	"	"	
Aroclor 1254	<1.9	1.9	0.18	ug/L	1	"	"	"	"	
Aroclor 1260	<1.9	1.9	0.18	ug/L	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	*82.5*			*65.6-114 %*		"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	*81.0*			*58.9-107 %*		"	"	"	"	
SOC5-SS47_0.5-0.5 (0904166-07) Soil Sampled: 09/18/09 13:00 Received: 09/21/09 11:40										
Aroclor 1016	<0.20	0.20	0.012	mg/kg dry	1	B9I2501	09/25/09	09/26/09	EPA 8082	
Aroclor 1221	<0.20	0.20	0.020	mg/kg dry	1	"	"	"	"	
Aroclor 1232	<0.20	0.20	0.015	mg/kg dry	1	"	"	"	"	
Aroclor 1242	<0.20	0.20	0.019	mg/kg dry	1	"	"	"	"	
Aroclor 1248	<0.20	0.20	0.011	mg/kg dry	1	"	"	"	"	
Aroclor 1254	<0.20	0.20	0.015	mg/kg dry	1	"	"	"	"	
Aroclor 1260	<0.20	0.20	0.011	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	*72.5*			*65.3-143 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904166
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/05/09

PCB 8082
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS47_0.5-0.5 (0904166-07) Soil	**Sampled: 09/18/09 13:00**			**Received: 09/21/09 11:40**						
Surrogate: Tetrachloro-meta-xylene	*83.0*			*60.9-138 %*		*B9I2501*	*09/25/09*	*09/26/09*	*EPA 8082*	

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UMP-019544

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904166
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/05/09

PERCENT SOLIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-TT12_0.5-0.5 (0904166-01) Soil Sampled: 09/17/09 11:00 Received: 09/21/09 11:40										
% Solids	**81**			%	1	B9I3008	09/30/09	09/30/09	% calculation	
M-1 (0904166-02) Soil Sampled: 09/17/09 00:00 Received: 09/21/09 11:40										
% Solids	**81**			%	1	B9I3008	09/30/09	09/30/09	% calculation	
SOC4-TT6_0.5-0.5 (0904166-04) Soil Sampled: 09/18/09 09:30 Received: 09/21/09 11:40										
% Solids	**84**			%	1	B9I3008	09/30/09	09/30/09	% calculation	
SOC5-SS7_0.5-0.5 (0904166-05) Soil Sampled: 09/18/09 12:00 Received: 09/21/09 11:40										
% Solids	**93**			%	1	B9I3008	09/30/09	09/30/09	% calculation	
SOC5-SS11_0.5-0.5 (0904166-06) Soil Sampled: 09/18/09 12:30 Received: 09/21/09 11:40										
% Solids	**86**			%	1	B9I3008	09/30/09	09/30/09	% calculation	
SOC5-SS47_0.5-0.5 (0904166-07) Soil Sampled: 09/18/09 13:00 Received: 09/21/09 11:40										
% Solids	**99**			%	1	B9I3008	09/30/09	09/30/09	% calculation	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904166
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	10/05/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-TT12_0.5-0.5 (0904166-01) Soil	**Sampled: 09/17/09 11:00**			**Received: 09/21/09 11:40**						
1,2,4-Trichlorobenzene	<0.033	0.41	0.033	mg/kg dry	1	B9I2302	09/23/09	09/23/09	EPA 8270C	
1,2-Dichlorobenzene	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.025	0.41	0.025	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.030	0.41	0.030	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.047	0.83	0.047	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.030	0.83	0.030	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.043	0.83	0.043	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.043	0.83	0.043	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.83	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.072	0.83	0.072	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.026	0.41	0.026	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.053	0.83	0.053	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.023	0.41	0.023	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.023	0.41	0.023	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.047	0.83	0.047	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.035	0.41	0.035	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.043	0.83	0.043	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.025	0.41	0.025	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.044	0.83	0.044	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.48	2.0	0.48	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.041	0.41	0.041	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.091	0.83	0.091	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.021	0.41	0.021	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.049	0.83	0.049	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.14	0.83	0.14	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.033	0.83	0.033	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.83	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.035	0.41	0.035	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
Aniline	<0.11	0.83	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
Benzidine	<0.89	3.1	0.89	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.033	0.41	0.033	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.033	0.41	0.033	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.042	0.41	0.042	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.037	0.41	0.037	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904166
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/05/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-TT12_0.5-0.5 (0904166-01) Soil	**Sampled: 09/17/09 11:00**			**Received: 09/21/09 11:40**						
Benzo (k) fluoranthene	<0.038	0.41	0.038	mg/kg dry	1	B9I2302	09/23/09	09/23/09	EPA 8270C	
Benzoic acid	<0.072	0.41	0.072	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.15	0.83	0.15	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.026	0.41	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.030	0.41	0.030	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.027	0.41	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.025	0.41	0.025	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.026	0.41	0.026	mg/kg dry	1	"	"	"	"	
Carbazole	<0.027	0.41	0.027	mg/kg dry	1	"	"	"	"	
Chrysene	<0.041	0.41	0.041	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.042	0.41	0.042	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.023	0.41	0.023	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.019	0.41	0.019	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.022	0.41	0.022	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.046	0.41	0.046	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.030	0.41	0.030	mg/kg dry	1	"	"	"	"	
Fluorene	<0.022	0.41	0.022	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.020	0.41	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.041	0.41	0.041	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.051	0.41	0.051	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.035	0.41	0.035	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.040	0.41	0.040	mg/kg dry	1	"	"	"	"	
Isophorone	<0.021	0.41	0.021	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.036	0.41	0.036	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.037	0.41	0.037	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.040	0.41	0.040	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.022	0.41	0.022	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.12	0.83	0.12	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.023	0.41	0.023	mg/kg dry	1	"	"	"	"	
Phenol	<0.070	0.83	0.070	mg/kg dry	1	"	"	"	"	
Pyrene	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*77.5*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*68.6*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*64.8*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*66.8*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*73.2*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*68.4*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904166
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/05/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
M-1 (0904166-02) Soil Sampled: 09/17/09 00:00 Received: 09/21/09 11:40										
1,2,4-Trichlorobenzene	<0.033	0.41	0.033	mg/kg dry	1	B9I2302	09/23/09	09/23/09	EPA 8270C	
1,2-Dichlorobenzene	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.025	0.41	0.025	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.030	0.41	0.030	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.047	0.83	0.047	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.030	0.83	0.030	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.043	0.83	0.043	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.043	0.83	0.043	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.83	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.072	0.83	0.072	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.026	0.41	0.026	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.053	0.83	0.053	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.023	0.41	0.023	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.023	0.41	0.023	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.047	0.83	0.047	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.035	0.41	0.035	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.043	0.83	0.043	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.025	0.41	0.025	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.044	0.83	0.044	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.48	2.0	0.48	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.041	0.41	0.041	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.091	0.83	0.091	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.021	0.41	0.021	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.049	0.83	0.049	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.14	0.83	0.14	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.033	0.83	0.033	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.83	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.035	0.41	0.035	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
Aniline	<0.11	0.83	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
Benzidine	<0.89	3.1	0.89	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.033	0.41	0.033	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.033	0.41	0.033	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.042	0.41	0.042	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.037	0.41	0.037	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904166
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	10/05/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
M-1 (0904166-02) Soil Sampled: 09/17/09 00:00 Received: 09/21/09 11:40										
Benzo (k) fluoranthene	<0.038	0.41	0.038	mg/kg dry	1	B9I2302	09/23/09	09/23/09	EPA 8270C	
Benzoic acid	<0.072	0.41	0.072	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.15	0.83	0.15	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.026	0.41	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.030	0.41	0.030	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.027	0.41	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.025	0.41	0.025	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.026	0.41	0.026	mg/kg dry	1	"	"	"	"	
Carbazole	<0.027	0.41	0.027	mg/kg dry	1	"	"	"	"	
Chrysene	<0.041	0.41	0.041	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.042	0.41	0.042	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.023	0.41	0.023	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.019	0.41	0.019	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.022	0.41	0.022	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.046	0.41	0.046	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.030	0.41	0.030	mg/kg dry	1	"	"	"	"	
Fluorene	<0.022	0.41	0.022	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.020	0.41	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.041	0.41	0.041	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.051	0.41	0.051	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.035	0.41	0.035	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.040	0.41	0.040	mg/kg dry	1	"	"	"	"	
Isophorone	<0.021	0.41	0.021	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.036	0.41	0.036	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.037	0.41	0.037	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.040	0.41	0.040	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.022	0.41	0.022	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.12	0.83	0.12	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.023	0.41	0.023	mg/kg dry	1	"	"	"	"	
Phenol	<0.070	0.83	0.070	mg/kg dry	1	"	"	"	"	
Pyrene	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*76.5*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*66.6*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*66.0*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*66.9*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*75.8*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*65.9*			*43.6-112 %*		"	"	"	"	

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LEGEND Technical Services, Inc.
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88 Empire Drive
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Tel: 651-642-1150
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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904166
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/05/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-TT6_0.5-0.5 (0904166-04) Soil Sampled: 09/18/09 09:30 Received: 09/21/09 11:40										
1,2,4-Trichlorobenzene	<0.032	0.39	0.032	mg/kg dry	1	B9I2302	09/23/09	09/23/09	EPA 8270C	
1,2-Dichlorobenzene	<0.030	0.39	0.030	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.045	0.80	0.045	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.029	0.80	0.029	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.042	0.80	0.042	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.042	0.80	0.042	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.80	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.069	0.80	0.069	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.051	0.80	0.051	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.023	0.39	0.023	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.023	0.39	0.023	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.045	0.80	0.045	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.042	0.80	0.042	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.043	0.80	0.043	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.46	1.9	0.46	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.088	0.80	0.088	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.39	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.048	0.80	0.048	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.80	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.032	0.80	0.032	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.80	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
Aniline	<0.11	0.80	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	<0.030	0.39	0.030	mg/kg dry	1	"	"	"	"	
Benzidine	<0.86	3.0	0.86	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.032	0.39	0.032	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.032	0.39	0.032	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.040	0.39	0.040	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.036	0.39	0.036	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904166
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	10/05/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-TT6_0.5-0.5 (0904166-04) Soil Sampled: 09/18/09 09:30 Received: 09/21/09 11:40										
Benzo (k) fluoranthene	<0.037	0.39	0.037	mg/kg dry	1	B9I2302	09/23/09	09/23/09	EPA 8270C	
Benzoic acid	<0.069	0.39	0.069	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.80	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.026	0.39	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
Carbazole	<0.026	0.39	0.026	mg/kg dry	1	"	"	"	"	
Chrysene	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.040	0.39	0.040	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.023	0.39	0.023	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.018	0.39	0.018	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.044	0.39	0.044	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.030	0.39	0.030	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
Fluorene	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.019	0.39	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.049	0.39	0.049	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.038	0.39	0.038	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.39	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.035	0.39	0.035	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.036	0.39	0.036	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.038	0.39	0.038	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.030	0.39	0.030	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.80	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.023	0.39	0.023	mg/kg dry	1	"	"	"	"	
Phenol	<0.068	0.80	0.068	mg/kg dry	1	"	"	"	"	
Pyrene	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*77.9*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*70.0*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*63.6*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*68.5*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*75.1*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*68.1*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904166
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/05/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS7_0.5-0.5 (0904166-05) Soil Sampled: 09/18/09 12:00 Received: 09/21/09 11:40										
1,2,4-Trichlorobenzene	<0.029	0.35	0.029	mg/kg dry	1	B9I2302	09/23/09	09/23/09	EPA 8270C	
1,2-Dichlorobenzene	<0.027	0.35	0.027	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.025	0.35	0.025	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.026	0.35	0.026	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.041	0.72	0.041	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.026	0.72	0.026	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.038	0.72	0.038	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.038	0.72	0.038	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.097	0.72	0.097	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.062	0.72	0.062	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.023	0.35	0.023	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.046	0.72	0.046	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.041	0.72	0.041	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.030	0.35	0.030	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.038	0.72	0.038	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.039	0.72	0.039	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.42	1.7	0.42	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.035	0.35	0.035	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.080	0.72	0.080	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.018	0.35	0.018	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.043	0.72	0.043	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.12	0.72	0.12	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.025	0.35	0.025	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.029	0.72	0.029	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.025	0.35	0.025	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.72	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.030	0.35	0.030	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.025	0.35	0.025	mg/kg dry	1	"	"	"	"	
Aniline	<0.097	0.72	0.097	mg/kg dry	1	"	"	"	"	
Anthracene	<0.027	0.35	0.027	mg/kg dry	1	"	"	"	"	
Benzidine	<0.77	2.7	0.77	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.029	0.35	0.029	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.029	0.35	0.029	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.037	0.35	0.037	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.032	0.35	0.032	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904166
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	10/05/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS7_0.5-0.5 (0904166-05) Soil Sampled: 09/18/09 12:00 Received: 09/21/09 11:40										
Benzo (k) fluoranthene	<0.033	0.35	0.033	mg/kg dry	1	B9I2302	09/23/09	09/23/09	EPA 8270C	
Benzoic acid	<0.062	0.35	0.062	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.13	0.72	0.13	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.023	0.35	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.026	0.35	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.023	0.35	0.023	mg/kg dry	1	"	"	"	"	
Carbazole	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
Chrysene	<0.035	0.35	0.035	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.037	0.35	0.037	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.016	0.35	0.016	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.019	0.35	0.019	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.040	0.35	0.040	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.027	0.35	0.027	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.026	0.35	0.026	mg/kg dry	1	"	"	"	"	
Fluorene	<0.019	0.35	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.017	0.35	0.017	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.035	0.35	0.035	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.044	0.35	0.044	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.030	0.35	0.030	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.034	0.35	0.034	mg/kg dry	1	"	"	"	"	
Isophorone	<0.018	0.35	0.018	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.031	0.35	0.031	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.032	0.35	0.032	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.034	0.35	0.034	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.027	0.35	0.027	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.019	0.35	0.019	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.10	0.72	0.10	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
Phenol	<0.061	0.72	0.061	mg/kg dry	1	"	"	"	"	
Pyrene	<0.025	0.35	0.025	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*78.3*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*67.5*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*66.5*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*66.4*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*72.9*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*65.5*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904166
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/05/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS11_0.5-0.5 (0904166-06) Soil	**Sampled: 09/18/09 12:30**			**Received: 09/21/09 11:40**						
1,2,4-Trichlorobenzene	<0.031	0.38	0.031	mg/kg dry	1	B9I2302	09/23/09	09/23/09	EPA 8270C	
1,2-Dichlorobenzene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.044	0.78	0.044	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.028	0.78	0.028	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.041	0.78	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.041	0.78	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.78	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.067	0.78	0.067	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.050	0.78	0.050	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.044	0.78	0.044	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.041	0.78	0.041	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.042	0.78	0.042	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.45	1.9	0.45	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.086	0.78	0.086	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.047	0.78	0.047	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.78	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.031	0.78	0.031	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.78	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.78	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Benzidine	<0.84	2.9	0.84	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.040	0.38	0.040	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.035	0.38	0.035	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904166
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/05/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS11_0.5-0.5 (0904166-06) Soil	**Sampled: 09/18/09 12:30**			**Received: 09/21/09 11:40**						
Benzo (k) fluoranthene	<0.036	0.38	0.036	mg/kg dry	1	B9I2302	09/23/09	09/23/09	EPA 8270C	
Benzoic acid	<0.067	0.38	0.067	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.78	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Carbazole	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Chrysene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.040	0.38	0.040	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.017	0.38	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.043	0.38	0.043	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Fluorene	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.019	0.38	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.048	0.38	0.048	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.035	0.38	0.035	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.78	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.066	0.78	0.066	mg/kg dry	1	"	"	"	"	
Pyrene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*69.8*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*65.7*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*61.9*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*65.3*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*69.5*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*64.4*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904166
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	10/05/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2703 - EPA 7471A											
Blank (B9I2703-BLK1)					Prepared: 09/27/09		Analyzed: 09/29/09				
Mercury	< 0.10	0.10	0.0018	mg/kg wet							
LCS (B9I2703-BS1)					Prepared: 09/27/09		Analyzed: 09/29/09				
Mercury	0.232	0.10	0.0018	mg/kg wet	0.200		116	80-120			
LCS Dup (B9I2703-BSD1)					Prepared: 09/27/09		Analyzed: 09/29/09				
Mercury	0.225	0.10	0.0018	mg/kg wet	0.200		112	80-120	3.06	20	
Matrix Spike (B9I2703-MS1)		**Source: 0904198-01**			Prepared: 09/27/09		Analyzed: 09/29/09				
Mercury	0.319	0.13	0.0023	mg/kg dry	0.256	<0.13	118	75-125			
Matrix Spike Dup (B9I2703-MSD1)		**Source: 0904198-01**			Prepared: 09/27/09		Analyzed: 09/29/09				
Mercury	0.313	0.13	0.0023	mg/kg dry	0.256	<0.13	116	75-125	2.03	20	
Batch B9I2704 - EPA 3050B											
Blank (B9I2704-BLK1)					Prepared: 09/27/09		Analyzed: 10/02/09				
Antimony	< 0.50	0.50	0.0055	mg/kg wet							
Arsenic	< 0.50	0.50	0.10	mg/kg wet							
Beryllium	< 0.25	0.25	0.011	mg/kg wet							
Cadmium	< 0.25	0.25	0.025	mg/kg wet							
Chromium	< 0.50	0.50	0.012	mg/kg wet							
Copper	< 1.0	1.0	0.070	mg/kg wet							
Lead	< 1.0	1.0	0.034	mg/kg wet							
Nickel	< 0.50	0.50	0.014	mg/kg wet							
Selenium	< 1.0	1.0	0.11	mg/kg wet							
Silver	< 0.25	0.25	0.0090	mg/kg wet							
Thallium	< 2.0	2.0	0.13	mg/kg wet							
Zinc	< 1.0	1.0	0.22	mg/kg wet							
LCS (B9I2704-BS1)					Prepared: 09/27/09		Analyzed: 10/02/09				
Antimony	38.4	0.50	0.0055	mg/kg wet	39.9		96.3	80-120			
Arsenic	40.0	0.50	0.10	mg/kg wet	39.9		100	80-120			
Beryllium	4.06	0.25	0.011	mg/kg wet	3.99		102	80-120			
Cadmium	40.8	0.25	0.025	mg/kg wet	39.9		102	80-120			
Chromium	39.5	0.50	0.012	mg/kg wet	39.9		99.1	80-120			
Copper	39.7	1.0	0.070	mg/kg wet	39.9		99.6	80-120			
Lead	40.3	1.0	0.034	mg/kg wet	39.9		101	80-120			
Nickel	40.0	0.50	0.014	mg/kg wet	39.9		100	80-120			
Selenium	41.0	1.0	0.11	mg/kg wet	39.9		103	80-120			
Silver	3.76	0.25	0.0090	mg/kg wet	3.99		94.1	80-120			
Thallium	39.2	2.0	0.13	mg/kg wet	39.9		98.2	80-120			
Zinc	39.5	1.0	0.22	mg/kg wet	39.9		99.0	80-120			

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904166
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	10/05/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2704 - EPA 3050B											
LCS Dup (B9I2704-BSD1)					Prepared: 09/27/09		Analyzed: 10/02/09				
Antimony	37.6	0.50	0.0055	mg/kg wet	39.9		94.3	80-120	2.12	20	
Arsenic	38.8	0.50	0.10	mg/kg wet	39.9		97.3	80-120	3.03	20	
Beryllium	3.94	0.25	0.011	mg/kg wet	3.99		98.9	80-120	2.87	20	
Cadmium	39.6	0.25	0.025	mg/kg wet	39.9		99.3	80-120	3.00	20	
Chromium	38.3	0.50	0.012	mg/kg wet	39.9		96.1	80-120	3.04	20	
Copper	38.4	1.0	0.070	mg/kg wet	39.9		96.2	80-120	3.47	20	
Lead	39.1	1.0	0.034	mg/kg wet	39.9		98.0	80-120	2.99	20	
Nickel	38.9	0.50	0.014	mg/kg wet	39.9		97.4	80-120	2.91	20	
Selenium	39.6	1.0	0.11	mg/kg wet	39.9		99.4	80-120	3.36	20	
Silver	3.62	0.25	0.0090	mg/kg wet	3.99		90.8	80-120	3.57	20	
Thallium	38.3	2.0	0.13	mg/kg wet	39.9		96.0	80-120	2.32	20	
Zinc	38.8	1.0	0.22	mg/kg wet	39.9		97.2	80-120	1.87	20	
Matrix Spike (B9I2704-MS1)		**Source: 0904166-01**			Prepared: 09/27/09		Analyzed: 10/02/09				
Antimony	36.6	0.62	0.0068	mg/kg dry	49.3	<0.62	74.4	75-125			M2
Arsenic	51.3	0.62	0.12	mg/kg dry	49.3	8.10	87.7	75-125			
Beryllium	4.93	0.31	0.014	mg/kg dry	4.93	0.406	91.9	75-125			
Cadmium	43.4	0.31	0.031	mg/kg dry	49.3	<0.31	87.5	75-125			
Chromium	68.2	0.62	0.015	mg/kg dry	49.3	22.5	92.8	75-125			
Copper	24.4	1.2	0.086	mg/kg dry	49.3	<1.2	49.5	75-125			M2
Lead	61.0	1.2	0.042	mg/kg dry	49.3	16.3	90.9	75-125			
Nickel	59.0	0.62	0.017	mg/kg dry	49.3	15.1	89.1	75-125			
Selenium	43.1	1.2	0.14	mg/kg dry	49.3	<1.2	86.6	75-125			
Silver	4.24	0.31	0.011	mg/kg dry	4.93	<0.31	86.2	75-125			
Thallium	40.9	2.5	0.16	mg/kg dry	49.3	<2.5	83.1	75-125			
Zinc	104	1.2	0.27	mg/kg dry	49.3	58.4	93.3	75-125			
Matrix Spike Dup (B9I2704-MSD1)		**Source: 0904166-01**			Prepared: 09/27/09		Analyzed: 10/02/09				
Antimony	37.0	0.62	0.0068	mg/kg dry	49.3	<0.62	75.1	75-125	0.918	20	
Arsenic	50.1	0.62	0.12	mg/kg dry	49.3	8.10	85.2	75-125	2.42	20	
Beryllium	4.82	0.31	0.014	mg/kg dry	4.93	0.406	89.6	75-125	2.32	20	
Cadmium	42.9	0.31	0.031	mg/kg dry	49.3	<0.31	86.5	75-125	1.10	20	
Chromium	62.5	0.62	0.015	mg/kg dry	49.3	22.5	81.2	75-125	8.78	20	
Copper	23.1	1.2	0.086	mg/kg dry	49.3	<1.2	46.9	75-125	5.41	20	M2
Lead	58.3	1.2	0.042	mg/kg dry	49.3	16.3	85.3	75-125	4.62	20	
Nickel	57.5	0.62	0.017	mg/kg dry	49.3	15.1	86.1	75-125	2.55	20	
Selenium	42.4	1.2	0.14	mg/kg dry	49.3	<1.2	85.3	75-125	1.53	20	
Silver	4.08	0.31	0.011	mg/kg dry	4.93	<0.31	82.9	75-125	3.84	20	
Thallium	40.6	2.5	0.16	mg/kg dry	49.3	<2.5	82.5	75-125	0.743	20	
Zinc	97.9	1.2	0.27	mg/kg dry	49.3	58.4	80.3	75-125	6.36	20	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904166
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/05/09

PCB 8082 - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2501 - EPA 3545 ASE Extraction											
Blank (B9I2501-BLK1)					Prepared: 09/25/09		Analyzed: 09/26/09				
Aroclor 1016	< 0.20	0.20	0.012	mg/kg wet							
Aroclor 1221	< 0.20	0.20	0.020	mg/kg wet							
Aroclor 1232	< 0.20	0.20	0.015	mg/kg wet							
Aroclor 1242	< 0.20	0.20	0.019	mg/kg wet							
Aroclor 1248	< 0.20	0.20	0.011	mg/kg wet							
Aroclor 1254	< 0.20	0.20	0.015	mg/kg wet							
Aroclor 1260	< 0.20	0.20	0.011	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0450*			*mg/kg wet*	*0.0667*		*67.5*	*65.3-143*			
Surrogate: Tetrachloro-meta-xylene	*0.0517*			*mg/kg wet*	*0.0667*		*77.5*	*60.9-138*			
LCS (B9I2501-BS1)					Prepared: 09/25/09		Analyzed: 09/26/09				
Aroclor 1260	0.285	0.20	0.011	mg/kg wet	0.333		85.4	70-130			
Surrogate: Decachlorobiphenyl	*0.0510*			*mg/kg wet*	*0.0667*		*76.5*	*65.3-143*			
Surrogate: Tetrachloro-meta-xylene	*0.0573*			*mg/kg wet*	*0.0667*		*86.0*	*60.9-138*			
Matrix Spike (B9I2501-MS1)		**Source: 0904164-01**			Prepared: 09/25/09		Analyzed: 09/26/09				
Aroclor 1260	0.299	0.21	0.011	mg/kg dry	0.344	<0.21	87.0	70-130			
Surrogate: Decachlorobiphenyl	*0.0505*			*mg/kg dry*	*0.0687*		*73.5*	*65.3-143*			
Surrogate: Tetrachloro-meta-xylene	*0.0584*			*mg/kg dry*	*0.0687*		*85.0*	*60.9-138*			
Matrix Spike Dup (B9I2501-MSD1)		**Source: 0904164-01**			Prepared: 09/25/09		Analyzed: 09/26/09				
Aroclor 1260	0.295	0.21	0.011	mg/kg dry	0.344	<0.21	85.9	70-130	1.27	17.2	
Surrogate: Decachlorobiphenyl	*0.0515*			*mg/kg dry*	*0.0687*		*75.0*	*65.3-143*			
Surrogate: Tetrachloro-meta-xylene	*0.0591*			*mg/kg dry*	*0.0687*		*86.0*	*60.9-138*			
Batch B9I2902 - EPA 3510C (Sep Funnel)											
Blank (B9I2902-BLK1)					Prepared: 09/29/09		Analyzed: 10/02/09				
Aroclor 1016	< 2.0	2.0	0.19	ug/L							
Aroclor 1221	< 2.0	2.0	0.22	ug/L							
Aroclor 1232	< 2.0	2.0	0.21	ug/L							
Aroclor 1242	< 2.0	2.0	0.34	ug/L							
Aroclor 1248	< 2.0	2.0	0.53	ug/L							
Aroclor 1254	< 2.0	2.0	0.19	ug/L							
Aroclor 1260	< 2.0	2.0	0.19	ug/L							
Surrogate: Decachlorobiphenyl	*0.805*			*ug/L*	*1.00*		*80.5*	*65.6-114*			
Surrogate: Tetrachloro-meta-xylene	*0.775*			*ug/L*	*1.00*		*77.5*	*58.9-107*			
LCS (B9I2902-BS1)					Prepared: 09/29/09		Analyzed: 10/02/09				
Aroclor 1260	3.91	2.0	0.19	ug/L	5.00		78.2	70-130			
Surrogate: Decachlorobiphenyl	*0.785*			*ug/L*	*1.00*		*78.5*	*65.6-114*			
Surrogate: Tetrachloro-meta-xylene	*0.725*			*ug/L*	*1.00*		*72.5*	*58.9-107*			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904166
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/05/09

PCB 8082 - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2902 - EPA 3510C (Sep Funnel)											
LCS Dup (B9I2902-BSD1)					Prepared: 09/29/09		Analyzed: 10/02/09				**Q9, QM-10**
Aroclor 1260	4.46	2.0	0.19	ug/L	5.00		89.1	70-130	13.0	20	
Surrogate: Decachlorobiphenyl	*0.890*			*ug/L*	*1.00*		*89.0*	*65.6-114*			
Surrogate: Tetrachloro-meta-xylene	*0.845*			*ug/L*	*1.00*		*84.5*	*58.9-107*			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904166
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/05/09

PERCENT SOLIDS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I3008 - General Preparation											
Duplicate (B9I3008-DUP1)		**Source: 0904253-01**			Prepared & Analyzed: 09/30/09						
% Solids	91.0			%		91.0			0.00	20	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904166
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/05/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2302 - EPA 3545 ASE Extraction											
Blank (B9I2302-BLK1)					Prepared & Analyzed: 09/23/09						
1,2,4-Trichlorobenzene	< 0.027	0.33	0.027	mg/kg wet							
1,2-Dichlorobenzene	< 0.025	0.33	0.025	mg/kg wet							
1,2-Diphenylhydrazine as Azobenzene	< 0.020	0.33	0.020	mg/kg wet							
1,3-Dichlorobenzene	< 0.023	0.33	0.023	mg/kg wet							
1,4-Dichlorobenzene	< 0.024	0.33	0.024	mg/kg wet							
2,3,4,6-Tetrachlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2,4,5-Trichlorophenol	< 0.024	0.67	0.024	mg/kg wet							
2,4,6-Trichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dimethylphenol	< 0.090	0.67	0.090	mg/kg wet							
2,4-Dinitrophenol	< 0.058	0.67	0.058	mg/kg wet							
2,4-Dinitrotoluene	< 0.021	0.33	0.021	mg/kg wet							
2,6-Dichlorophenol	< 0.043	0.67	0.043	mg/kg wet							
2,6-Dinitrotoluene	< 0.019	0.33	0.019	mg/kg wet							
2-Chloronaphthalene	< 0.019	0.33	0.019	mg/kg wet							
2-Chlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2-Methylnaphthalene	< 0.028	0.33	0.028	mg/kg wet							
2-Methylphenol	< 0.035	0.67	0.035	mg/kg wet							
2-Nitroaniline	< 0.020	0.33	0.020	mg/kg wet							
2-Nitrophenol	< 0.036	0.67	0.036	mg/kg wet							
3,3´-Dichlorobenzidine	< 0.39	1.6	0.39	mg/kg wet							
3-Nitroaniline	< 0.033	0.33	0.033	mg/kg wet							
4,6-Dinitro-2-methylphenol	< 0.074	0.67	0.074	mg/kg wet							
4-Bromophenyl phenyl ether	< 0.017	0.33	0.017	mg/kg wet							
4-Chloro-3-methylphenol	< 0.040	0.67	0.040	mg/kg wet							
4-Chloroaniline	< 0.11	0.67	0.11	mg/kg wet							
4-Chlorophenyl phenyl ether	< 0.023	0.33	0.023	mg/kg wet							
4-Methylphenol	< 0.027	0.67	0.027	mg/kg wet							
4-Nitroaniline	< 0.023	0.33	0.023	mg/kg wet							
4-Nitrophenol	< 0.099	0.67	0.099	mg/kg wet							
Acenaphthene	< 0.028	0.33	0.028	mg/kg wet							
Acenaphthylene	< 0.023	0.33	0.023	mg/kg wet							
Aniline	< 0.090	0.67	0.090	mg/kg wet							
Anthracene	< 0.025	0.33	0.025	mg/kg wet							
Benzidine	< 0.72	2.5	0.72	mg/kg wet							
Benzo (a) anthracene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (a) pyrene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (b) fluoranthene	< 0.034	0.33	0.034	mg/kg wet							
Benzo (g,h,i) perylene	< 0.030	0.33	0.030	mg/kg wet							

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904166
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/05/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2302 - EPA 3545 ASE Extraction											
Blank (B9I2302-BLK1)					Prepared & Analyzed: 09/23/09						
Benzo (k) fluoranthene	< 0.031	0.33	0.031	mg/kg wet							
Benzoic acid	< 0.058	0.33	0.058	mg/kg wet							
Benzyl alcohol	< 0.12	0.67	0.12	mg/kg wet							
Bis(2-chloroethoxy)methane	< 0.021	0.33	0.021	mg/kg wet							
Bis(2-chloroethyl)ether	< 0.024	0.33	0.024	mg/kg wet							
Bis(2-chloroisopropyl)ether	< 0.022	0.33	0.022	mg/kg wet							
Bis(2-ethylhexyl)phthalate	< 0.020	0.33	0.020	mg/kg wet							
Butyl benzyl phthalate	< 0.021	0.33	0.021	mg/kg wet							
Carbazole	< 0.022	0.33	0.022	mg/kg wet							
Chrysene	< 0.033	0.33	0.033	mg/kg wet							
Dibenz (a,h) anthracene	< 0.034	0.33	0.034	mg/kg wet							
Dibenzofuran	< 0.019	0.33	0.019	mg/kg wet							
Diethyl phthalate	< 0.015	0.33	0.015	mg/kg wet							
Dimethyl phthalate	< 0.018	0.33	0.018	mg/kg wet							
Di-n-butyl phthalate	< 0.037	0.33	0.037	mg/kg wet							
Di-n-octyl phthalate	< 0.025	0.33	0.025	mg/kg wet							
Fluoranthene	< 0.024	0.33	0.024	mg/kg wet							
Fluorene	< 0.018	0.33	0.018	mg/kg wet							
Hexachlorobenzene	< 0.016	0.33	0.016	mg/kg wet							
Hexachlorobutadiene	< 0.033	0.33	0.033	mg/kg wet							
Hexachlorocyclopentadiene	< 0.041	0.33	0.041	mg/kg wet							
Hexachloroethane	< 0.028	0.33	0.028	mg/kg wet							
Indeno (1,2,3-cd) pyrene	< 0.032	0.33	0.032	mg/kg wet							
Isophorone	< 0.017	0.33	0.017	mg/kg wet							
Naphthalene	< 0.029	0.33	0.029	mg/kg wet							
Nitrobenzene	< 0.030	0.33	0.030	mg/kg wet							
N-Nitrosodimethylamine	< 0.032	0.33	0.032	mg/kg wet							
N-Nitrosodi-n-propylamine	< 0.025	0.33	0.025	mg/kg wet							
N-Nitrosodiphenylamine	< 0.018	0.33	0.018	mg/kg wet							
Pentachlorophenol	< 0.096	0.67	0.096	mg/kg wet							
Phenanthrene	< 0.019	0.33	0.019	mg/kg wet							
Phenol	< 0.057	0.67	0.057	mg/kg wet							
Pyrene	< 0.023	0.33	0.023	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	*4.99*			*mg/kg wet*	*6.67*		*74.9*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*5.35*			*mg/kg wet*	*6.67*		*80.3*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*5.16*			*mg/kg wet*	*6.67*		*77.3*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.88*			*mg/kg wet*	*6.67*		*73.2*	*49.1-86.9*			
Surrogate: Phenol-d6	*5.20*			*mg/kg wet*	*6.67*		*78.0*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*6.60*			*mg/kg wet*	*6.67*		*99.0*	*43.6-112*			

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904166
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	10/05/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2302 - EPA 3545 ASE Extraction											
LCS (B9I2302-BS1)					Prepared & Analyzed: 09/23/09						
1,2,4-Trichlorobenzene	4.38	0.33	0.027	mg/kg wet	6.67		65.7	50.7-82.1			
1,4-Dichlorobenzene	3.89	0.33	0.024	mg/kg wet	6.67		58.4	44-77			
2,4-Dinitrotoluene	4.45	0.33	0.021	mg/kg wet	6.67		66.7	56.7-81.7			
2-Chlorophenol	3.89	0.67	0.038	mg/kg wet	6.67		58.3	52.3-88.2			
4-Chloro-3-methylphenol	3.95	0.67	0.040	mg/kg wet	6.67		59.2	53.4-87			
4-Nitrophenol	4.11	0.67	0.099	mg/kg wet	6.67		61.6	55.7-87.1			
Anthracene	4.89	0.33	0.025	mg/kg wet	6.67		73.4	65.3-92			
Benzo (a) anthracene	5.22	0.33	0.027	mg/kg wet	6.67		78.3	69-95.3			
Benzo (a) pyrene	5.05	0.33	0.027	mg/kg wet	6.67		75.8	68.5-98.2			
Chrysene	5.23	0.33	0.033	mg/kg wet	6.67		78.4	68.6-94.2			
Fluoranthene	4.81	0.33	0.024	mg/kg wet	6.67		72.2	64.3-94.6			
Fluorene	4.54	0.33	0.018	mg/kg wet	6.67		68.1	61.9-89.4			
N-Nitrosodi-n-propylamine	4.36	0.33	0.025	mg/kg wet	6.67		65.5	55.5-91.1			
Pentachlorophenol	3.67	0.67	0.096	mg/kg wet	6.67		55.1	54.7-74.6			
Phenanthrene	4.83	0.33	0.019	mg/kg wet	6.67		72.4	64.3-90.9			
Phenol	3.86	0.67	0.057	mg/kg wet	6.67		57.9	49.7-85.4			
Surrogate: 2,4,6-Tribromophenol	*5.01*			*mg/kg wet*	*6.67*		*75.2*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*4.19*			*mg/kg wet*	*6.67*		*62.8*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*4.36*			*mg/kg wet*	*6.67*		*65.4*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.25*			*mg/kg wet*	*6.67*		*63.7*	*49.1-86.9*			
Surrogate: Phenol-d6	*4.61*			*mg/kg wet*	*6.67*		*69.1*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*4.92*			*mg/kg wet*	*6.67*		*73.9*	*43.6-112*			
Matrix Spike (B9I2302-MS1)		**Source: 0904140-19**			Prepared & Analyzed: 09/23/09						
1,2,4-Trichlorobenzene	4.86	0.36	0.029	mg/kg dry	7.33	<0.36	66.2	51-77.5			
1,4-Dichlorobenzene	4.15	0.36	0.026	mg/kg dry	7.33	<0.36	56.5	41.7-73.4			
2,4-Dinitrotoluene	5.11	0.36	0.023	mg/kg dry	7.33	<0.36	69.7	50-84.8			
2-Chlorophenol	4.39	0.73	0.041	mg/kg dry	7.33	<0.73	59.9	47.8-90.8			
4-Chloro-3-methylphenol	4.73	0.73	0.043	mg/kg dry	7.33	<0.73	64.4	48.4-95.1			
4-Nitrophenol	4.98	0.73	0.11	mg/kg dry	7.33	<0.73	67.9	44-105			
Anthracene	5.63	0.36	0.027	mg/kg dry	7.33	<0.36	76.7	60.2-97.3			
Benzo (a) anthracene	5.93	0.36	0.029	mg/kg dry	7.33	<0.36	80.9	59.8-102			
Benzo (a) pyrene	5.74	0.36	0.029	mg/kg dry	7.33	<0.36	78.2	57.2-105			
Chrysene	5.96	0.36	0.036	mg/kg dry	7.33	<0.36	81.3	59.2-102			
Fluoranthene	5.58	0.36	0.026	mg/kg dry	7.33	<0.36	76.0	50.4-108			
Fluorene	5.32	0.36	0.020	mg/kg dry	7.33	<0.36	72.5	57.8-94.4			
N-Nitrosodi-n-propylamine	4.88	0.36	0.027	mg/kg dry	7.33	<0.36	66.5	46.2-96.2			
Pentachlorophenol	4.67	0.73	0.10	mg/kg dry	7.33	<0.73	63.7	53.6-80.4			
Phenanthrene	5.58	0.36	0.021	mg/kg dry	7.33	<0.36	76.1	58.4-97.5			
Phenol	4.36	0.73	0.062	mg/kg dry	7.33	<0.73	59.4	44-88.5			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904166
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/05/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2302 - EPA 3545 ASE Extraction											
Matrix Spike (B9I2302-MS1)		**Source: 0904140-19**			Prepared & Analyzed: 09/23/09						
Surrogate: 2,4,6-Tribromophenol	*5.95*			*mg/kg dry*	*7.33*		*81.1*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*4.79*			*mg/kg dry*	*7.33*		*65.3*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*4.85*			*mg/kg dry*	*7.33*		*66.2*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.72*			*mg/kg dry*	*7.33*		*64.4*	*49.1-86.9*			
Surrogate: Phenol-d6	*5.22*			*mg/kg dry*	*7.33*		*71.2*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.54*			*mg/kg dry*	*7.33*		*75.5*	*43.6-112*			
Matrix Spike Dup (B9I2302-MSD1)		**Source: 0904140-19**			Prepared & Analyzed: 09/23/09						
1,2,4-Trichlorobenzene	5.25	0.36	0.029	mg/kg dry	7.31	<0.36	71.7	51-77.5	7.69	15.7	
1,4-Dichlorobenzene	4.52	0.36	0.026	mg/kg dry	7.31	<0.36	61.8	41.7-73.4	8.64	14.7	
2,4-Dinitrotoluene	5.22	0.36	0.023	mg/kg dry	7.31	<0.36	71.3	50-84.8	2.05	20.5	
2-Chlorophenol	4.64	0.73	0.041	mg/kg dry	7.31	<0.73	63.4	47.8-90.8	5.47	19.8	
4-Chloro-3-methylphenol	4.96	0.73	0.043	mg/kg dry	7.31	<0.73	67.8	48.4-95.1	4.83	18.7	
4-Nitrophenol	5.04	0.73	0.11	mg/kg dry	7.31	<0.73	68.9	44-105	1.20	30.9	
Anthracene	5.79	0.36	0.027	mg/kg dry	7.31	<0.36	79.2	60.2-97.3	2.92	15.1	
Benzo (a) anthracene	5.99	0.36	0.029	mg/kg dry	7.31	<0.36	81.9	59.8-102	0.921	19.6	
Benzo (a) pyrene	5.85	0.36	0.029	mg/kg dry	7.31	<0.36	80.0	57.2-105	2.03	19.4	
Chrysene	6.01	0.36	0.036	mg/kg dry	7.31	<0.36	82.2	59.2-102	0.871	19.6	
Fluoranthene	5.63	0.36	0.026	mg/kg dry	7.31	<0.36	77.0	50.4-108	0.933	21	
Fluorene	5.57	0.36	0.020	mg/kg dry	7.31	<0.36	76.1	57.8-94.4	4.52	15.8	
N-Nitrosodi-n-propylamine	5.16	0.36	0.027	mg/kg dry	7.31	<0.36	70.5	46.2-96.2	5.58	17.1	
Pentachlorophenol	4.73	0.73	0.10	mg/kg dry	7.31	<0.73	64.7	53.6-80.4	1.18	22.4	
Phenanthrene	5.76	0.36	0.021	mg/kg dry	7.31	<0.36	78.7	58.4-97.5	3.15	14.3	
Phenol	4.58	0.73	0.062	mg/kg dry	7.31	<0.73	62.7	44-88.5	5.09	21.5	
Surrogate: 2,4,6-Tribromophenol	*6.18*			*mg/kg dry*	*7.31*		*84.6*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*5.10*			*mg/kg dry*	*7.31*		*69.7*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*5.13*			*mg/kg dry*	*7.31*		*70.2*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*5.07*			*mg/kg dry*	*7.31*		*69.4*	*49.1-86.9*			
Surrogate: Phenol-d6	*5.48*			*mg/kg dry*	*7.31*		*75.0*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*5.67*			*mg/kg dry*	*7.31*		*77.5*	*43.6-112*			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904166
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/05/09

Notes and Definitions

QM-10	LCS/LCSD were analyzed in place of MS/MSD.
Q9	Insufficient sample received to meet method QC requirements.
M2	Matrix spike recovery was low, the associated blank spike recovery was acceptable.
<	Less than value listed
dry	Sample results reported on a dry weight basis
NA	Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL	Method Detection Limit
RL	Reporting Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
MS	Matrix Spike = Laboratory Fortified Matrix (LFM)

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U904166

Chain of Custody

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4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number: 2319-0805.07 SIRI 300

Project Name: UMA-SSI/RI

Sample Origination State: MN (use two letter postal state abbreviation)

COC Number: № 29837

COC 1 of 1

Project Manager: JSA/JME

Project QC Contact: KIN/AAN

Sampled by: KCB

Laboratory: Legend

Number of Containers/Preservative

	Location	Start Depth	Stop Depth	Depth Unit (m/ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Water: VOCs (HCl) #1	Water: SVOCs (unpreserved) #2	Water: Dissolved Metals (HNO_3)	Water: Total Metals (HNO_3)	Water: General (unpreserved) #3	Water: Diesel Range Organics (HCl)	Water: Nutrients (H_2SO_4) #4	Soil: VOCs (tared MeOH) #1	Soil: GRO, BTEX (tared MeOH) #1	Soil: DRO (tared unpreserved)	Soil: Metals (unpreserved)	Soil: SVOCs (unpreserved) #2	Soil: % Solids (plastic vial, unpres.)	Total Number Of Containers	
01	1. SOC4-TT12	0.5	0.5	ft	09/17/2009	1100		X	X													X	X	X		4	Analyze PCB, SVOC, PPL Metals
02	2. M-1	—	—	—	↓	—		X	X													X	X	X		4	↓
03	3. FB-1	—	—	—	↓	1130	X				X		X													1	Analyze PCBs
04	4. SOC4-TT6	0.5	0.5	ft	09/18/2009	0930		X	X													X	X	X		3	Analyze [illegible], SVOCs, PPL Metals
05	5. SOC5-SS7	↓	↓	↓	↓	1200		X	X													X	X	X		3	↓
06	6. SOC5-SS11					1230		X	X													X	X	X		3	↓
07	7. SOC5-SS47	↓	↓	↓	↓	1300		X	X														X	X		4	Analyze PCBs MS/MSD vol included
	8.																										
	9.																										
	10.																										

Common Parameter/Container - Preservation Key

#1 - Volatile Organics = BTEX, GRO, TPH, 8260 Full List
#2 - Semivolatile Organics = PAHs, PCP, Dioxins, 8270 Full List, Herbicide/Pesticide/PCBs
#3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
#4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
[signature]	(Y) N	09/21/09	0930			
Relinquished By:	On Ice? Y N	Date	Time	Received by: [signature]	Date 9/21/09	Time 11:40

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other: _____

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

Re, no blank, RR, custody seals

H:\LGS\TOFORMS\Chain Of Custody Form 2009 RLG Rev. 09/09

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St Paul, MN 55103
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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [1]	Minnesota Tier SLV [4]	Minnesota SRV [5]	Minnesota Tier II Industrial SRV [6]
Metals										
Antimony	7440-36-0	Soil/Solid	6010B	0.0055	0.50	mg/kg	--	2.7	12	100
Arsenic	7440-38-2	Soil/Solid	6010B	0.10	0.50	mg/kg	--	15.1	9	20
Beryllium	7440-41-7	Soil/Solid	6010B	0.011	0.25	mg/kg	--	1.4	55	230
Cadmium	7440-43-9	Soil/Solid	6010B	0.025	0.25	mg/kg	--	4.4	25	200
Chromium	7440-47-3	Soil/Solid	6010B	0.012	0.50	mg/kg	--	1000000 (8)	44000 (8)	100000 (8)
Copper	7440-50-8	Soil/Solid	6010B	0.070	1.0	mg/kg	--	400	100	9000
Lead	7439-92-1	Soil/Solid	6010B	0.034	1.0	mg/kg	--	525	300	700
Nickel	7440-02-0	Soil/Solid	6010B	0.014	0.25	mg/kg	--	88	560	2500
Selenium	7782-49-2	Soil/Solid	6010B	0.11	1.0	mg/kg	--	1.5	160	1300
Silver	7440-22-4	Soil/Solid	6010B	0.0090	0.25	mg/kg	--	3.9	160	1300
Thallium	7440-28-0	Soil/Solid	6010B	0.13	2.0	mg/kg	--	--	3	21
Zinc	7440-66-6	Soil/Solid	6010B	0.22	1.0	mg/kg	--	1500	8700	75000
Metals										
Antimony	7440-36-0	Water/Liquid	6020	0.046	0.500	ug/L	6	--	--	--
Arsenic	7440-38-2	Water/Liquid	6010B	2	10.000	ug/L	--	--	--	--
Beryllium	7440-41-7	Water/Liquid	6020	0.027	0.5000	ug/L	0.08	--	--	--
Cadmium	7440-43-9	Water/Liquid	6010B	0.099	1.0000	ug/L	4	--	--	--
Chromium	7440-47-3	Water/Liquid	6010B	0.24	10.000	ug/L	100 (5)	--	--	--
Copper	7440-50-8	Water/Liquid	6010B	1.4	20.000	ug/L	--	--	--	--
Lead	7439-92-1	Water/Liquid	6010B	0.68	3.0000	ug/L	--	--	--	--
Nickel	7440-02-0	Water/Liquid	6010B	0.28	5.0000	ug/L	100	--	--	--
Selenium	7782-49-2	Water/Liquid	6010B	2.2	20.000	ug/L	30	--	--	--
Silver	7440-22-4	Water/Liquid	6010B	0.18	5.0000	ug/L	30	--	--	--
Thallium	7440-28-0	Water/Liquid	6020	0.0081	0.500	ug/L	0.5	--	--	--
Zinc	7440-66-6	Water/Liquid	6010B	4.4	20.000	ug/L	2000	--	--	--
Mercury										
Mercury	7439-97-6	Soil/Solid	7471A	0.0031	0.10	mg/kg	--	1.5 C	0.5	1.5
Mercury	7439-97-6	Water/Liquid	7470A	0.000031	0.00020	mg/L	--	--	--	--
Nitrate+Nitrite Nitrogen as N (Braun)										
N+N Nitrogen as N	NA	Water/Liquid	SM4500-NO3-F	0.007	0.02	mg/L	10 (3)	--	--	--
Total Kjeldahl Nitrogen (Braun)										
TKN as N	NA	Water/Liquid	SM4500-NH3-C	0.17	0.5	mg/L	--	--	--	--
Perchlorate (TA)										
Perchlorate	NA	Water/Liquid	314	0.36	4	ug/L	--	--	--	--
Nitrocellulose (TA)										
Nitrocellulose	NA	Soil/Solid	353.2Mod	0.78	0.5	mg/kg	--	--	--	--
Nitrocellulose (TA)										
Nitrocellulose	NA	Water/Liquid	353.2Mod	0.124	0.5	mg/L	--	--	--	--
Organochlorine Pesticides										
4,4'-DDD	72-54-8	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	56	125
4,4'-DDE	72-55-9	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	40	80
4,4'-DDT	50-29-3	Soil/Solid	8081A	0.0020	0.040	mg/kg	--	--	15	88
a-Chlordane	5103-71-9	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	--	--
Aldrin	309-00-2	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	1	2
alpha-BHC	319-84-6	Soil/Solid	8081A	0.0011	0.040	mg/kg	--	--	2	3.5
beta-BHC	319-85-7	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	7	15
delta-BHC	319-86-8	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	--	--
Dieldrin	60-57-1	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	0.8	2
Endosulfan I	959-98-8	Soil/Solid	8081A	0.0013	0.040	mg/kg	--	--	--	--
Endosulfan II	891-86-1	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
Endosulfan sulfate	1031-07-8	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
Endrin	72-20-8	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	8	56
Endrin aldehyde	7421-93-4	Soil/Solid	8081A	0.0041	0.040	mg/kg	--	--	--	--
Endrin ketone	53494-70-5	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
gamma-BHC (Lindane)	58-89-9	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	9	15
gamma-Chlordane	5566-34-7	Soil/Solid	8081A	0.0017	0.040	mg/kg	--	--	--	--
Heptachlor	76-44-8	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	2	3.5
Heptachlor epoxide	1024-57-3	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	0.4	3
Methoxychlor	72-43-5	Soil/Solid	8081A	0.0019	0.040	mg/kg	--	--	11	50
Toxaphene	8001-35-2	Soil/Solid	8081A	0.015	0.080	mg/kg	--	--	13	28
Organochlorine Pesticides										
4,4'-DDD	72-54-8	Water/Liquid	8081A	0.026	0.40	ug/L	1	--	--	--
4,4'-DDE	72-55-9	Water/Liquid	8081A	0.037	0.40	ug/L	1	--	--	--
4,4'-DDT	50-29-3	Water/Liquid	8081A	0.031	0.40	ug/L	1	--	--	--
a-Chlordane	5103-71-9	Water/Liquid	8081A	0.030	0.40	ug/L	--	--	--	--
Aldrin	309-00-2	Water/Liquid	8081A	0.036	0.40	ug/L	--	--	--	--
alpha-BHC	319-84-6	Water/Liquid	8081A	0.026	0.40	ug/L	--	--	--	--
beta-BHC	319-85-7	Water/Liquid	8081A	0.026	0.40	ug/L	--	--	--	--
delta-BHC	319-86-8	Water/Liquid	8081A	0.023	0.40	ug/L	--	--	--	--
Dieldrin	60-57-1	Water/Liquid	8081A	0.031	0.40	ug/L	0.006 (4)	--	--	--
Endosulfan I	959-98-8	Water/Liquid	8081A	0.032	0.40	ug/L	--	--	--	--
Endosulfan II	891-86-1	Water/Liquid	8081A	0.035	0.40	ug/L	--	--	--	--

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Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Units	MDH Health Risk Limits [1]	Minnesota Tier SLV [4]	Minnesota SRV [5]	Minnesota Tier II Industrial SRV [6]
Endosulfan sulfate	1031-07-8	Water/Liquid	8081A	0.034	0.40	ug/L	--	--	--	--
Endrin	72-20-8	Water/Liquid	8081A	0.029	0.40	ug/L	--	--	--	--
Endrin aldehyde	7421-93-4	Water/Liquid	8081A	0.044	0.40	ug/L	--	--	--	--
Endrin ketone	53494-70-5	Water/Liquid	8081A	0.031	0.40	ug/L	--	--	--	--
gamma-BHC (Lindane)	58-89-9	Water/Liquid	8081A	0.024	0.40	ug/L	--	--	--	--
gamma-Chlordane	5566-34-7	Water/Liquid	8081A	0.030	0.40	ug/L	--	--	--	--
Heptachlor	76-44-8	Water/Liquid	8081A	0.028	0.40	ug/L	0.08	--	--	--
Heptachlor epoxide	1024-57-3	Water/Liquid	8081A	0.030	0.40	ug/L	0.04	--	--	--
Methoxychlor	72-43-5	Water/Liquid	8081A	0.032	0.40	ug/L	--	--	--	--
Toxaphene	8001-35-2	Water/Liquid	8081A	0.069	1.00	ug/L	0.3	--	--	--
MDA List 1 Pesticides (Braun)										
EPTC	759-94-4	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Propachlor	1918-16-7	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Ethalfluralin	55283-68-6	Soil/Solid	8270C	0.014	0.04	mg/kg	--	--	--	--
Deisopropylatrazine	1007-28-9	Soil/Solid	8270C	0.0080	0.04	mg/kg	--	--	--	--
Trifluralin	1582-09-8	Soil/Solid	8270C	0.014	0.04	mg/kg	--	--	--	--
Desethylatrazine	6190-65-4	Soil/Solid	8270C	0.011	0.04	mg/kg	--	--	--	--
Phorate	298-02-2	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Prometon	1610-18-0	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Simazine	122-34-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Atrazine	1912-24-9	Soil/Solid	8270C	0.0100	0.04	mg/kg	--	--	--	--
Propazine	139-40-2	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Terbufos	13071-79-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	0.6	3.5
Fonofos	944-22-9	Soil/Solid	8270C	0.0040	0.04	mg/kg	--	--	--	--
Triallate	2303-17-5	Soil/Solid	8270C	0.0050	0.04	mg/kg	--	--	--	--
Metribuzin	21087-64-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Dimethenamid	87674-68-8	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Acetochlor	34256-82-1	Soil/Solid	8270C	0.010	0.04	mg/kg	--	--	--	--
Alachlor	15972-60-8	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Cyanazine	21725-46-2	Soil/Solid	8270C	0.0080	0.04	mg/kg	--	--	--	--
Metolachlor	51218-45-2	Soil/Solid	8270C	0.0030	0.04	mg/kg	--	--	435	3300
Chlorpyrifos	2921-88-2	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Pendimethalin	40487-42-1	Soil/Solid	8270C	0.016	0.04	mg/kg	--	--	--	--
MDA List 1 Pesticides (Braun)										
EPTC	759-94-4	Water/Liquid	8270C	0.22	0.50	ug/L	200	--	--	--
Propachlor	1918-16-7	Water/Liquid	8270C	0.14	0.50	ug/L	--	--	--	--
Ethalfluralin	55283-68-6	Water/Liquid	8270C	0.47	0.50	ug/L	300 (1)	--	--	--
Deisopropylatrazine	1007-28-9	Water/Liquid	8270C	0.26	0.50	ug/L	--	--	--	--
Trifluralin	1582-09-8	Water/Liquid	8270C	0.21	0.50	ug/L	5 (1)	--	--	--
Desethylatrazine	6190-65-4	Water/Liquid	8270C	0.29	0.50	ug/L	--	--	--	--
Phorate	298-02-2	Water/Liquid	8270C	0.58	1.00	ug/L	1 (1)	--	--	--
Prometon	1610-18-0	Water/Liquid	8270C	0.29	0.50	ug/L	100	--	--	--
Simazine	122-34-9	Water/Liquid	8270C	0.32	0.50	ug/L	4 (3)	--	--	--
Atrazine	1912-24-9	Water/Liquid	8270C	0.24	0.50	ug/L	3 (3)	--	--	--
Propazine	139-40-2	Water/Liquid	8270C	0.21	0.50	ug/L	10 (1)	--	--	--
Terbufos	13071-79-9	Water/Liquid	8270C	0.54	1.00	ug/L	0.2 (1)	--	--	--
Fonofos	944-22-9	Water/Liquid	8270C	0.30	0.50	ug/L	10 (1)	--	--	--
Triallate	2303-17-5	Water/Liquid	8270C	0.34	0.50	ug/L	9 (1)	--	--	--
Metribuzin	21087-64-9	Water/Liquid	8270C	0.35	0.50	ug/L	200	--	--	--
Dimethenamid	87674-68-8	Water/Liquid	8270C	0.24	0.50	ug/L	40 (1)	--	--	--
Acetochlor	34256-82-1	Water/Liquid	8270C	0.25	0.50	ug/L	9 (4)	--	--	--
Alachlor	15972-60-8	Water/Liquid	8270C	0.19	0.50	ug/L	5 (4)	--	--	--
Cyanazine	21725-46-2	Water/Liquid	8270C	0.48	0.50	ug/L	1	--	--	--
Metolachlor	51218-45-2	Water/Liquid	8270C	0.28	0.50	ug/L	300 (4)	--	--	--
Chlorpyrifos	2921-88-2	Water/Liquid	8270C	0.34	0.50	ug/L	20 (1)	--	--	--
Pendimethalin	40487-42-1	Water/Liquid	8270C	0.25	0.50	ug/L	--	--	--	--
MDA List 2 Pesticides (Braun)										
Dicamba	1918-00-9	Soil/Solid	8270C	0.008	0.50	mg/kg	--	--	--	--
MCPA	94-74-6	Soil/Solid	8270C	0.014	0.50	mg/kg	--	--	16	110
2,4-D	94-75-7	Soil/Solid	8270C	0.012	0.50	mg/kg	--	--	285	2200
Trichlopyr	55336-06-3	Soil/Solid	8270C	0.008	0.50	mg/kg	--	--	--	--
Pentachlorophenol	87-86-5	Soil/Solid	8270C	0.007	0.50	mg/kg	--	--	80	120
2,4,5-T.P.	93-72-1	Soil/Solid	8270C	0.007	0.50	mg/kg	--	--	--	--
2,4,5-T	93-76-5	Soil/Solid	8270C	0.009	0.50	mg/kg	--	--	290	2150
Dinoseb	88-85-7	Soil/Solid	8270C	0.005	0.50	mg/kg	--	--	--	--
2,4-D.B.	94-82-6	Soil/Solid	8270C	0.011	0.50	mg/kg	--	--	226	1750
Bentazone	25057-89-0	Soil/Solid	8270C	0.009	0.50	mg/kg	--	--	--	--
Picloram	1918-02-1	Soil/Solid	8270C	0.011	0.50	mg/kg	--	--	2000	15000
MDA List 2 Pesticides (Braun)										
Dicamba	1918-00-9	Water/Liquid	8270C	0.38	0.50	ug/L	200	--	--	--

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UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [1]	Minnesota Tier SLV [2]	Minnesota SRV [3]	Minnesota Tier II Industrial SRV [4]
MCPA	94-74-6	Water/Liquid	8270C	0.29	0.30	ug/L	--	--	--	--
2,4-D	94-75-7	Water/Liquid	8270C	0.26	0.50	ug/L	70	--	--	--
Trichlopyr	55336-06-3	Water/Liquid	8270C	0.41	0.50	ug/L	300 (1)	--	--	--
Pentachlorophenol	87-86-5	Water/Liquid	8270C	0.39	0.50	ug/L	1 (3)	--	--	--
2,4,5-T.P.	93-72-1	Water/Liquid	8270C	0.28	0.50	ug/L	50 (3)	--	--	--
2,4,5-T	93-76-5	Water/Liquid	8270C	0.31	0.50	ug/L	--	--	--	--
Dinoseb	88-85-7	Water/Liquid	8270C	0.34	0.50	ug/L	7 (1)	--	--	--
2,4-D.B.	94-82-6	Water/Liquid	8270C	0.15	0.50	ug/L	60 (1)	--	--	--
Bentazone	25057-89-0	Water/Liquid	8270C	0.22	0.50	ug/L	200 (1)	--	--	--
Picloram	1918-02-1	Water/Liquid	8270C	0.25	0.50	ug/L	500	--	--	--
PCBs										
Aroclor 1016	12674-11-2	Soil/Solid	8082	0.017	0.20	mg/kg	--	--	--	--
Aroclor 1221	11104-28-2	Soil/Solid	8082	0.039	0.20	mg/kg	--	--	--	--
Aroclor 1232	11141-16-5	Soil/Solid	8082	0.010	0.20	mg/kg	--	--	--	--
Aroclor 1242	53469-21-9	Soil/Solid	8082	0.016	0.20	mg/kg	--	--	--	--
Aroclor 1248	12672-29-6	Soil/Solid	8082	0.0078	0.20	mg/kg	--	--	--	--
Aroclor 1254	11097-69-1	Soil/Solid	8082	0.0071	0.20	mg/kg	--	--	--	--
Aroclor 1260	11096-82-5	Soil/Solid	8082	0.015	0.20	mg/kg	--	--	--	--
PCBs										
Aroclor 1016	12674-11-2	Water/Liquid	8082	0.41	2.0	ug/L	--	--	--	--
Aroclor 1221	11104-28-2	Water/Liquid	8082	0.36	2.0	ug/L	--	--	--	--
Aroclor 1232	11141-16-5	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1242	53469-21-9	Water/Liquid	8082	0.58	2.0	ug/L	--	--	--	--
Aroclor 1248	12672-29-6	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1254	11097-69-1	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1260	11096-82-5	Water/Liquid	8082	0.32	2.0	ug/L	--	--	--	--
VOCs - Soil/Solid										
1,1,1,2-Tetrachloroethane	630-20-6	Soil/Solid	8260B	0.019	0.25	mg/kg	--	1.4	31	51
1,1,1-Trichloroethane	71-55-6	Soil/Solid	8260B	0.0098	0.25	mg/kg	--	3.5	140	472
1,1,2,2-Tetrachloroethane	79-34-5	Soil/Solid	8260B	0.012	0.25	mg/kg	--	0.005	3.5	6.5
1,1,2-Trichloroethane	79-00-5	Soil/Solid	8260B	0.022	0.25	mg/kg	--	0.010	9	14
1,1,2-Trichlorotrifluoroethane	76-13-1	Soil/Solid	8260B	0.052	0.25	mg/kg	--	2580	3745	5430
1,1-Dichloroethane	75-34-3	Soil/Solid	8260B	0.013	0.25	mg/kg	--	0.18	34	55
1,1-Dichloroethene	75-35-4	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.025	20	60
1,1-Dichloropropene	563-58-6	Soil/Solid	8260B	0.021	0.25	mg/kg	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	Soil/Solid	8260B	0.063	0.50	mg/kg	--	--	--	--
1,2,3-Trichloropropane	96-18-4	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.35	--	--
1,2,4-Trichlorobenzene	120-82-1	Soil/Solid	8260B	0.052	0.50	mg/kg	--	0.31	200	985
1,2,4-Trimethylbenzene	95-63-6	Soil/Solid	8260B	0.013	0.25	mg/kg	--	--	8	25
1,2-Dibromo-3-chloropropane	96-12-8	Soil/Solid	8260B	0.079	0.50	mg/kg	--	0.001	--	--
1,2-Dibromoethane (EDB)	106-93-4	Soil/Solid	8260B	0.0056	0.25	mg/kg	--	0.00001	0.3	0.5
1,2-Dichlorobenzene	95-50-1	Soil/Solid	8260B	0.0055	0.25	mg/kg	--	8.1	26	75
1,2-Dichloroethane	107-06-2	Soil/Solid	8260B	0.030	0.25	mg/kg	--	0.010	4	6
1,2-Dichloropropane	78-87-5	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.011	4	6
1,3,5-Trimethylbenzene	108-67-8	Soil/Solid	8260B	0.0077	0.25	mg/kg	--	--	3	10
1,3-Dichlorobenzene	541-73-1	Soil/Solid	8260B	0.015	0.25	mg/kg	--	4.2	26	200
1,3-Dichloropropane	142-28-9	Soil/Solid	8260B	0.017	0.25	mg/kg	--	--	--	--
1,4-Dichlorobenzene	106-46-7	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.13	30	50
2,2-Dichloropropane	594-20-7	Soil/Solid	8260B	0.034	0.50	mg/kg	--	--	--	--
2-Butanone	78-93-3	Soil/Solid	8260B	0.069	2.0	mg/kg	--	--	5500	19000
2-Chlorotoluene	95-49-8	Soil/Solid	8260B	0.015	0.25	mg/kg	--	--	436	436
4-Chlorotoluene	106-43-4	Soil/Solid	8260B	0.015	0.25	mg/kg	--	--	--	--
Acetone	67-64-1	Soil/Solid	8260B	0.16	2.0	mg/kg	--	0.7	340	1000
Allyl chloride	107-05-1	Soil/Solid	8260B	0.016	0.50	mg/kg	--	0.032	--	--
Benzene	71-43-2	Soil/Solid	8260B	0.0070	0.25	mg/kg	--	0.034	6	10
Bromobenzene	108-86-1	Soil/Solid	8260B	0.017	0.25	mg/kg	--	--	--	--
Bromochloromethane	74-97-5	Soil/Solid	8260B	0.021	0.25	mg/kg	--	0.15	--	--
Bromodichloromethane	75-27-4	Soil/Solid	8260B	0.020	0.25	mg/kg	--	0.013	10	17
Bromoform	75-25-2	Soil/Solid	8260B	0.015	0.50	mg/kg	--	0.14	370	650
Bromomethane	74-83-9	Soil/Solid	8260B	0.012	0.50	mg/kg	--	0.5	0.7	2
Carbon tetrachloride	56-23-5	Soil/Solid	8260B	0.018	0.25	mg/kg	--	0.023	0.3	0.9
Chlorobenzene	108-90-7	Soil/Solid	8260B	0.011	0.25	mg/kg	--	1.1	11	32
Chloroethane	75-00-3	Soil/Solid	8260B	0.045	0.25	mg/kg	--	--	1000	3000
Chloroform	67-66-3	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.17	2.5	4
Chloromethane	74-87-3	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.006	8	23
cis-1,2-Dichloroethene	156-59-2	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.14	8	22
cis-1,3-Dichloropropene	10061-01-5	Soil/Solid	8260B	0.0098	0.25	mg/kg	--	0.005 M	--	--
Dibromochloromethane	124-48-1	Soil/Solid	8260B	0.014	0.25	mg/kg	--	0.03	12	20
Dibromomethane	74-95-3	Soil/Solid	8260B	0.021	0.25	mg/kg	--	--	260	1860
Dichlorodifluoromethane	75-71-8	Soil/Solid	8260B	0.035	0.50	mg/kg	--	38	16	50
Dichlorofluoromethane	75-43-4	Soil/Solid	8260B	0.014	0.25	mg/kg	--	--	--	--
Ethyl ether	60-29-7	Soil/Solid	8260B	0.017	0.50	mg/kg	--	1.2	--	--
Ethylbenzene	100-41-4	Soil/Solid	8260B	0.011	0.25	mg/kg	--	4.7	200	200
Hexachlorobutadiene	87-68-3	Soil/Solid	8260B	0.11	1.0	mg/kg	--	25	6	37
Isopropylbenzene	98-82-8	Soil/Solid	8260B	0.019	0.25	mg/kg	--	18	30	87

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits	Minnesota Tier SLV *	Minnesota SRV *	Minnesota Tier II Industrial SRV *
m,p-Xylene	108-38-3/ 106-42-3	Soil/Solid	8260B	0.024	0.50	mg/kg	--	45 M	45 M	130 M
Methyl isobutyl ketone	108-10-1	Soil/Solid	8260B	0.031	0.50	mg/kg	--	0.42	1700	9000
Methyl tert-butyl ether	1634-04-4	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.027	--	--
Methylene chloride	75-09-2	Soil/Solid	8260B	0.043	1.0	mg/kg	--	0.068	97	158
Naphthalene	91-20-3	Soil/Solid	8260B	0.060	0.50	mg/kg	--	7.5	10	28
n-Butylbenzene	104-51-8	Soil/Solid	8260B	0.012	0.25	mg/kg	--	--	30	92
n-Propylbenzene	103-65-1	Soil/Solid	8260B	0.013	0.25	mg/kg	--	--	30	93
o-Xylene	95-47-6	Soil/Solid	8260B	0.015	0.25	mg/kg	--	45 M	45 M	130 M
p-Isopropyltoluene	99-87-6	Soil/Solid	8260B	0.014	0.25	mg/kg	--	--	--	--
sec-Butylbenzene	135-98-8	Soil/Solid	8260B	0.012	0.25	mg/kg	--	--	25	70
Styrene	100-42-5	Soil/Solid	8260B	0.012	0.25	mg/kg	--	1.9	210	600
tert-Butylbenzene	98-06-6	Soil/Solid	8260B	0.0073	0.25	mg/kg	--	--	30	90
Tetrachloroethene	127-18-4	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.068	72	131
Tetrahydrofuran	109-99-9	Soil/Solid	8260B	0.068	2.0	mg/kg	--	0.16	--	--
Toluene	108-88-3	Soil/Solid	8260B	0.0063	0.25	mg/kg	--	6.4	107	305
trans-1,2-Dichloroethene	156-60-5	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.27	11	33
trans-1,3-Dichloropropene	10061-02-6	Soil/Solid	8260B	0.013	0.25	mg/kg	--	0.005 M	--	--
Trichloroethene	79-01-6	Soil/Solid	8260B	0.013	0.25	mg/kg	--	0.14	29	46
Trichlorofluoromethane	75-69-4	Soil/Solid	8260B	0.035	0.25	mg/kg	--	22	67	195
Vinyl chloride	75-01-4	Soil/Solid	8260B	0.031	0.25	mg/kg	--	0.001	0.8	2.2
VOCs - Water/Liquid										
1,1,1,2-Tetrachloroethane	630-20-6	Water/Liquid	8260B	0.083	1.0	ug/L	70	--	--	--
1,1,1-Trichloroethane	71-55-6	Water/Liquid	8260B	0.098	1.0	ug/L	9000 (4)	--	--	--
1,1,2,2-Tetrachloroethane	79-34-5	Water/Liquid	8260B	0.084	1.0	ug/L	2	--	--	--
1,1,2-Trichloroethane	79-00-5	Water/Liquid	8260B	0.15	1.0	ug/L	3	--	--	--
1,1,2-Trichlorotrifluoroethane	76-13-1	Water/Liquid	8260B	0.10	1.0	ug/L	200000	--	--	--
1,1-Dichloroethane	75-34-3	Water/Liquid	8260B	0.094	1.0	ug/L	100 (7)	--	--	--
1,1-Dichloroethene	75-35-4	Water/Liquid	8260B	0.10	1.0	ug/L	200	--	--	--
1,1-Dichloropropene	563-58-6	Water/Liquid	8260B	0.099	1.0	ug/L	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	Water/Liquid	8260B	0.40	5.0	ug/L	--	--	--	--
1,2,3-Trichloropropane	96-18-4	Water/Liquid	8260B	0.13	2.5	ug/L	40	--	--	--
1,2,4-Trichlorobenzene	120-82-1	Water/Liquid	8260B	0.52	5.0	ug/L	--	--	--	--
1,2,4-Trimethylbenzene	95-63-6	Water/Liquid	8260B	0.052	1.0	ug/L	--	--	--	--
1,2-Dibromo-3-chloropropane	96-12-8	Water/Liquid	8260B	1.2	5.0	ug/L	--	--	--	--
1,2-Dibromoethane (EDB)	106-93-4	Water/Liquid	8260B	0.10	2.5	ug/L	0.004	--	--	--
1,2-Dichlorobenzene	95-50-1	Water/Liquid	8260B	0.12	1.0	ug/L	600	--	--	--
1,2-Dichloroethane	107-06-2	Water/Liquid	8260B	0.084	1.0	ug/L	4	--	--	--
1,2-Dichloropropane	78-87-5	Water/Liquid	8260B	0.13	1.0	ug/L	5	--	--	--
1,3,5-Trimethylbenzene	108-67-8	Water/Liquid	8260B	0.066	1.0	ug/L	100 (4) (6)	--	--	--
1,3-Dichlorobenzene	541-73-1	Water/Liquid	8260B	0.094	1.0	ug/L	--	--	--	--
1,3-Dichloropropane	142-28-9	Water/Liquid	8260B	0.074	1.0	ug/L	--	--	--	--
1,4-Dichlorobenzene	106-46-7	Water/Liquid	8260B	0.053	1.0	ug/L	10	--	--	--
2,2-Dichloropropane	594-20-7	Water/Liquid	8260B	0.23	5.0	ug/L	--	--	--	--
2-Butanone	78-93-3	Water/Liquid	8260B	0.58	20	ug/L	4000	--	--	--
2-Chlorotoluene	95-49-8	Water/Liquid	8260B	0.077	1.0	ug/L	--	--	--	--
4-Chlorotoluene	106-43-4	Water/Liquid	8260B	0.059	1.0	ug/L	--	--	--	--
Acetone	67-64-1	Water/Liquid	8260B	0.69	20	ug/L	700	--	--	--
Allyl chloride	107-05-1	Water/Liquid	8260B	0.28	5.0	ug/L	30	--	--	--
Benzene	71-43-2	Water/Liquid	8260B	0.047	1.0	ug/L	2 (4)	--	--	--
Bromobenzene	108-86-1	Water/Liquid	8260B	0.084	1.0	ug/L	--	--	--	--
Bromochloromethane	74-97-5	Water/Liquid	8260B	0.075	1.0	ug/L	--	--	--	--
Bromodichloromethane	75-27-4	Water/Liquid	8260B	0.13	1.0	ug/L	8	--	--	--
Bromoform	75-25-2	Water/Liquid	8260B	0.074	5.0	ug/L	40	--	--	--
Bromomethane	74-83-9	Water/Liquid	8260B	0.26	5.0	ug/L	10	--	--	--
Carbon tetrachloride	56-23-5	Water/Liquid	8260B	0.074	1.0	ug/L	3	--	--	--
Chlorobenzene	108-90-7	Water/Liquid	8260B	0.025	1.0	ug/L	100	--	--	--
Chloroethane	75-00-3	Water/Liquid	8260B	0.26	2.5	ug/L	--	--	--	--
Chloroform	67-66-3	Water/Liquid	8260B	0.098	1.0	ug/L	30 (4) (6)	--	--	--
Chloromethane	74-87-3	Water/Liquid	8260B	0.098	2.5	ug/L	--	--	--	--
cis-1,2-Dichloroethene	156-59-2	Water/Liquid	8260B	0.12	1.0	ug/L	50 (4)	--	--	--
cis-1,3-Dichloropropene	10061-01-5	Water/Liquid	8260B	0.11	1.0	ug/L	--	--	--	--
Dibromochloromethane	124-48-1	Water/Liquid	8260B	0.084	2.5	ug/L	10	--	--	--
Dibromomethane	74-95-3	Water/Liquid	8260B	0.14	2.5	ug/L	--	--	--	--
Dichlorodifluoromethane	75-71-8	Water/Liquid	8260B	0.39	5.0	ug/L	700 (4)	--	--	--
Dichlorofluoromethane	75-43-4	Water/Liquid	8260B	0.070	1.0	ug/L	--	--	--	--
Ethyl ether	60-29-7	Water/Liquid	8260B	0.10	5.0	ug/L	1000	--	--	--
Ethylbenzene	100-41-4	Water/Liquid	8260B	0.055	1.0	ug/L	700	--	--	--
Hexachlorobutadiene	87-68-3	Water/Liquid	8260B	0.58	10	ug/L	1	--	--	--
Isopropylbenzene	98-82-8	Water/Liquid	8260B	0.068	1.0	ug/L	300	--	--	--
m,p-Xylene	108-38-3 106-42-3	Water/Liquid	8260B	0.14	2.0	ug/L	10000 M	--	--	--
Methyl isobutyl ketone	108-10-1	Water/Liquid	8260B	0.13	5.0	ug/L	300	--	--	--
Methyl tert-butyl ether	1634-04-4	Water/Liquid	8260B	0.079	1.0	ug/L	--	--	--	--

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Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [a]	Minnesota Tier SLV [a]	Minnesota SRV [b]	Minnesota Tier II Industrial SRV [b]
Methylene chloride	75-09-2	Water/Liquid	8260B	0.29	5.0	ug/L	5 (3)	--	--	--
Naphthalene	91-20-3	Water/Liquid	8260B	0.38	5.0	ug/L	300	--	--	--
n-Butylbenzene	104-51-8	Water/Liquid	8260B	0.094	2.5	ug/L	--	--	--	--
n-Propylbenzene	103-65-1	Water/Liquid	8260B	0.079	1.0	ug/L	--	--	--	--
o-Xylene	95-47-6	Water/Liquid	8260B	0.074	1.0	ug/L	10000 M	--	--	--
p-Isopropyltoluene	99-87-6	Water/Liquid	8260B	0.087	2.5	ug/L	--	--	--	--
sec-Butylbenzene	135-98-8	Water/Liquid	8260B	0.030	1.0	ug/L	--	--	--	--
Styrene	100-42-5	Water/Liquid	8260B	0.072	1.0	ug/L	--	--	--	--
tert-Butylbenzene	98-06-6	Water/Liquid	8260B	0.046	1.0	ug/L	--	--	--	--
Tetrachloroethene	127-18-4	Water/Liquid	8260B	0.10	1.0	ug/L	5 (3)	--	--	--
Tetrahydrofuran	109-99-9	Water/Liquid	8260B	0.76	20	ug/L	--	--	--	--
Toluene	108-88-3	Water/Liquid	8260B	0.036	1.0	ug/L	1000	--	--	--
trans-1,2-Dichloroethene	156-60-5	Water/Liquid	8260B	0.14	1.0	ug/L	100	--	--	--
trans-1,3-Dichloropropene	10061-02-6	Water/Liquid	8260B	0.082	1.0	ug/L	--	--	--	--
Trichloroethene	79-01-6	Water/Liquid	8260B	0.097	1.0	ug/L	5 (3)	--	--	--
Trichlorofluoromethane	75-69-4	Water/Liquid	8260B	0.17	1.0	ug/L	2000	--	--	--
Vinyl chloride	75-01-4	Water/Liquid	8260B	0.10	1.0	ug/L	0.2 (4)	--	--	--
SemiVolatile Organics										
1,2,4-Trichlorobenzene	120-82-1	Soil/Solid	8270C	0.020	0.33	mg/kg	--	0.31	200	985
1,2-Dichlorobenzene	95-50-1	Soil/Solid	8270C	0.012	0.33	mg/kg	--	8.1	26	75
1,2-Diphenylhydrazine as Azobenzene	103-33-3	Soil/Solid	8270C	0.039	0.33	mg/kg	--	--	--	--
1,3-Dichlorobenzene	541-73-1	Soil/Solid	8270C	0.014	0.33	mg/kg	--	4.2	26	200
1,4-Dichlorobenzene	106-46-7	Soil/Solid	8270C	0.013	0.33	mg/kg	--	0.13	30	50
2,3,4,6-Tetrachlorophenol	58-90-2	Soil/Solid	8270C	0.072	0.67	mg/kg	--	--	636	3700
2,4,5-Trichlorophenol	95-95-4	Soil/Solid	8270C	0.039	0.67	mg/kg	--	--	1920	10600
2,4,6-Trichlorophenol	88-06-2	Soil/Solid	8270C	0.081	0.67	mg/kg	--	0.21	595	1060
2,4-Dichlorophenol	120-83-2	Soil/Solid	8270C	0.046	0.67	mg/kg	--	0.076	46	230
2,4-Dimethylphenol	105-67-9	Soil/Solid	8270C	0.079	0.67	mg/kg	--	0.34	390	1925
2,4-Dinitrophenol	51-28-5	Soil/Solid	8270C	0.064	0.67	mg/kg	--	0.014	--	--
2,4-Dinitrotoluene	121-14-2	Soil/Solid	8270C	0.044	0.33	mg/kg	--	0.001	50	355
2,6-Dichlorophenol	87-65-0	Soil/Solid	8270C	0.042	0.67	mg/kg	--	--	--	--
2,6-Dinitrotoluene	606-20-2	Soil/Solid	8270C	0.040	0.33	mg/kg	--	0.001	25	175
2-Chloronaphthalene	91-58-7	Soil/Solid	8270C	0.018	0.33	mg/kg	--	--	--	--
2-Chlorophenol	95-57-8	Soil/Solid	8270C	0.029	0.67	mg/kg	--	0.26	--	--
2-Methylnaphthalene	91-57-6	Soil/Solid	8270C	0.021	0.33	mg/kg	--	--	100	369
2-Methylphenol	95-48-7	Soil/Solid	8270C	0.019	0.67	mg/kg	--	0.064	75	352
2-Nitroaniline	88-74-4	Soil/Solid	8270C	0.041	0.33	mg/kg	--	--	--	--
2-Nitrophenol	88-75-5	Soil/Solid	8270C	0.040	0.67	mg/kg	--	0.60	--	--
3,3'-Dichlorobenzidine	91-94-1	Soil/Solid	8270C	0.21	1.6	mg/kg	--	0.36	25	50
3-Nitroaniline	99-09-2	Soil/Solid	8270C	0.041	0.33	mg/kg	--	--	--	--
4,6-Dinitro-2-methylphenol	534-52-1	Soil/Solid	8270C	0.097	0.67	mg/kg	--	--	--	--
4-Bromophenyl phenyl ether	101-55-3	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	--	--
4-Chloro-3-methylphenol	59-50-7	Soil/Solid	8270C	0.075	0.67	mg/kg	--	--	--	--
4-Chloroaniline	106-47-8	Soil/Solid	8270C	0.022	0.67	mg/kg	--	--	--	--
4-Chlorophenyl phenyl ether	7005-72-3	Soil/Solid	8270C	0.024	0.33	mg/kg	--	--	--	--
4-Methylphenol	106-44-5	Soil/Solid	8270C	0.017	0.67	mg/kg	--	0.033	10	59
4-Nitroaniline	100-01-6	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	--	--
4-Nitrophenol	100-02-7	Soil/Solid	8270C	0.081	0.67	mg/kg	--	--	--	--
Acenaphthene	83-32-9	Soil/Solid	8270C	0.020	0.33	mg/kg	--	50	1200	5260
Acenaphthylene	208-96-8	Soil/Solid	8270C	0.031	0.33	mg/kg	--	--	--	--
Aniline	62-53-3	Soil/Solid	8270C	0.034	0.67	mg/kg	--	--	--	--
Anthracene	120-12-7	Soil/Solid	8270C	0.043	0.33	mg/kg	--	942	7880	45400
Benzidine	92-87-5	Soil/Solid	8270C	0.71	2.5	mg/kg	--	--	--	--
Benzo (a) anthracene	56-55-3	Soil/Solid	8270C	0.045	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (a) pyrene	50-32-8	Soil/Solid	8270C	0.049	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (b) fluoranthene	205-99-2	Soil/Solid	8270C	0.048	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (g,h,i) perylene	191-24-2	Soil/Solid	8270C	0.050	0.33	mg/kg	--	--	--	--
Benzo (k) fluoranthene	207-08-9	Soil/Solid	8270C	0.053	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzoic acid	65-85-0	Soil/Solid	8270C	0.036	0.33	mg/kg	--	30	50000	100000
Benzyl alcohol	100-51-6	Soil/Solid	8270C	0.11	0.67	mg/kg	--	--	8700	56000
Bis(2-chloroethoxy)methane	111-91-1	Soil/Solid	8270C	0.021	0.33	mg/kg	--	--	--	--
Bis(2-chloroethyl)ether	111-44-4	Soil/Solid	8270C	0.013	0.33	mg/kg	--	0.001	2.5	5
Bis(2-chloroisopropyl)ether	39638-32-9	Soil/Solid	8270C	0.017	0.33	mg/kg	--	--	--	--
Bis(2-ethylhexyl)phthalate	117-81-7	Soil/Solid	8270C	0.046	0.33	mg/kg	--	40	570	2100
Butyl benzyl phthalate	85-68-7	Soil/Solid	8270C	0.047	0.33	mg/kg	--	28	580	3700
Carbazole	86-74-8	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	700	1310
Chrysene	218-01-9	Soil/Solid	8270C	0.049	0.33	mg/kg	--	10.2 T	2 T	3 T
Dibenz (a,h) anthracene	53-70-3	Soil/Solid	8270C	0.053	0.33	mg/kg	--	10.2 T	2 T	3 T
Dibenzofuran	132-64-9	Soil/Solid	8270C	0.022	0.33	mg/kg	--	--	104	810

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits	Minnesota Tier SLV *	Minnesota SRV *	Minnesota Tier II Industrial SRV *
Diethyl phthalate	84-66-2	Soil/Solid	8270C	0.045	0.33	mg/kg	--	18	--	--
Dimethyl phthalate	131-11-3	Soil/Solid	8270C	0.043	0.33	mg/kg	--	172	--	--
Di-n-butyl phthalate	84-74-2	Soil/Solid	8270C	0.054	0.33	mg/kg	--	23	2440	16300
Di-n-octyl phthalate	117-84-0	Soil/Solid	8270C	0.056	0.33	mg/kg	--	--	520	3700
Fluoranthene	206-44-0	Soil/Solid	8270C	0.047	0.33	mg/kg	--	295	1080	6800
Fluorene	86-73-7	Soil/Solid	8270C	0.011	0.33	mg/kg	--	47	850	4120
Hexachlorobenzene	118-74-1	Soil/Solid	8270C	0.041	0.33	mg/kg	--	0.32	5	9
Hexachlorobutadiene	87-68-3	Soil/Solid	8270C	0.035	0.33	mg/kg	--	25	6	37
Hexachlorocyclopentadiene	77-47-4	Soil/Solid	8270C	0.030	0.33	mg/kg	--	4.4	2	6
Hexachloroethane	67-72-1	Soil/Solid	8270C	0.018	0.33	mg/kg	--	0.050	--	--
Indeno (1,2,3-cd) pyrene	193-39-5	Soil/Solid	8270C	0.042	0.33	mg/kg	--	10.2 T	2 T	3 T
Isophorone	78-59-1	Soil/Solid	8270C	0.018	0.33	mg/kg	--	0.16	--	--
Naphthalene	91-20-3	Soil/Solid	8270C	0.015	0.33	mg/kg	--	7.5	10	28
Nitrobenzene	98-95-3	Soil/Solid	8270C	0.014	0.33	mg/kg	--	--	--	--
N-Nitrosodimethylamine	62-75-9	Soil/Solid	8270C	0.028	0.33	mg/kg	--	0.82	--	--
N-Nitrosodi-n-propylamine	621-64-7	Soil/Solid	8270C	0.014	0.33	mg/kg	--	--	0.7	1.2
N-Nitrosodiphenylamine ***	86-30-6	Soil/Solid	8270C	0.045	0.33	mg/kg	--	0.88	1950	3720
Diphenylamine ***	122-39-4	Soil/Solid	8270C	--	--	--	--	--	--	--
Pentachlorophenol	87-86-5	Soil/Solid	8270C	0.081	0.67	mg/kg	--	0.034	80	120
Phenanthrene	85-01-8	Soil/Solid	8270C	0.026	0.33	mg/kg	--	--	--	--
Phenol	108-95-2	Soil/Solid	8270C	0.027	0.67	mg/kg	--	7.8	1500	20203
Pyrene	129-00-0	Soil/Solid	8270C	0.046	0.33	mg/kg	--	272	890	5800
2,4-Dinitrotoluene (DNT)	121-14-2	Soil/Solid	8270C	0.063	3.0	mg/kg	--	0.001	50	355
2,6-Dinitrotoluene (DNT)	606-20-2	Soil/Solid	8270C	0.13	3.0	mg/kg	--	0.001	25	175
SemiVolatile Organics										
1,2,4-Trichlorobenzene	120-82-1	Water/Liquid	8270C	0.28	10	ug/L	--	--	--	--
1,2-Dichlorobenzene	95-50-1	Water/Liquid	8270C	0.21	10	ug/L	600	--	--	--
1,2-Diphenylhydrazine as Azobenzene	103-33-3	Water/Liquid	8270C	0.20	10	ug/L	--	--	--	--
1,3-Dichlorobenzene	541-73-1	Water/Liquid	8270C	0.21	10	ug/L	--	--	--	--
1,4-Dichlorobenzene	106-46-7	Water/Liquid	8270C	0.18	10	ug/L	10	--	--	--
2,3,4,6-Tetrachlorophenol	58-90-2	Water/Liquid	8270C	1.0	10	ug/L	--	--	--	--
2,4,5-Trichlorophenol	95-95-4	Water/Liquid	8270C	0.85	10	ug/L	--	--	--	--
2,4,6-Trichlorophenol	88-06-2	Water/Liquid	8270C	0.89	10	ug/L	30	--	--	--
2,4-Dichlorophenol	120-83-2	Water/Liquid	8270C	0.78	10	ug/L	20	--	--	--
2,4-Dimethylphenol	105-67-9	Water/Liquid	8270C	0.78	10	ug/L	100	--	--	--
2,4-Dinitrophenol	51-28-5	Water/Liquid	8270C	0.50	10	ug/L	10	--	--	--
2,4-Dinitrotoluene	121-14-2	Water/Liquid	8270C	0.49	10	ug/L	0.5 (2)	--	--	--
2,6-Dichlorophenol	87-65-0	Water/Liquid	8270C	0.78	10	ug/L	--	--	--	--
2,6-Dinitrotoluene	606-20-2	Water/Liquid	8270C	0.39	10	ug/L	0.5 (2)	--	--	--
2-Chloronaphthalene	91-58-7	Water/Liquid	8270C	0.20	10	ug/L	--	--	--	--
2-Chlorophenol	95-57-8	Water/Liquid	8270C	0.66	10	ug/L	30	--	--	--
2-Methylnaphthalene	91-57-6	Water/Liquid	8270C	0.32	10	ug/L	--	--	--	--
2-Methylphenol	95-48-7	Water/Liquid	8270C	0.77	10	ug/L	30	--	--	--
2-Nitroaniline	88-74-4	Water/Liquid	8270C	0.92	10	ug/L	--	--	--	--
2-Nitrophenol	88-75-5	Water/Liquid	8270C	1.0	10	ug/L	--	--	--	--
3,3'-Dichlorobenzidine	91-94-1	Water/Liquid	8270C	7.1	25	ug/L	0.8	--	--	--
3-Nitroaniline	99-09-2	Water/Liquid	8270C	0.95	10	ug/L	--	--	--	--
4,6-Dinitro-2-methylphenol	534-52-1	Water/Liquid	8270C	0.90	10	ug/L	--	--	--	--
4-Bromophenyl phenyl ether	101-55-3	Water/Liquid	8270C	0.19	10	ug/L	--	--	--	--
4-Chloro-3-methylphenol	59-50-7	Water/Liquid	8270C	0.79	10	ug/L	--	--	--	--
4-Chloroaniline	106-47-8	Water/Liquid	8270C	1.0	10	ug/L	--	--	--	--
4-Chlorophenol	106-48-9	Water/Liquid	8270C	NA	NA	ug/L	--	--	--	--
4-Chlorophenyl phenyl ether	7005-72-3	Water/Liquid	8270C	0.15	10	ug/L	--	--	--	--
4-Methylphenol	106-44-5	Water/Liquid	8270C	0.82	10	ug/L	3	--	--	--
4-Nitroaniline	100-01-6	Water/Liquid	8270C	0.63	10	ug/L	--	--	--	--
4-Nitrophenol	100-02-7	Water/Liquid	8270C	1.2	10	ug/L	--	--	--	--
Acenaphthene	83-32-9	Water/Liquid	8270C	0.15	10	ug/L	400	--	--	--
Acenaphthylene	208-96-8	Water/Liquid	8270C	0.17	10	ug/L	--	--	--	--
Aniline	62-53-3	Water/Liquid	8270C	0.97	10	ug/L	--	--	--	--
Anthracene	120-12-7	Water/Liquid	8270C	0.19	10	ug/L	2000	--	--	--
Benzidine	92-87-5	Water/Liquid	8270C	23	100	ug/L	--	--	--	--
Benzo (a) anthracene	56-55-3	Water/Liquid	8270C	0.18	10	ug/L	--	--	--	--
Benzo (a) pyrene	50-32-8	Water/Liquid	8270C	0.22	10	ug/L	--	--	--	--
Benzo (b) fluoranthene	205-99-2	Water/Liquid	8270C	0.18	10	ug/L	--	--	--	--
Benzo (g,h,i) perylene	191-24-2	Water/Liquid	8270C	0.24	10	ug/L	--	--	--	--
Benzo (k) fluoranthene	207-08-9	Water/Liquid	8270C	0.21	10	ug/L	--	--	--	--
Benzoic acid	65-85-0	Water/Liquid	8270C	0.75	10	ug/L	30000	--	--	--
Benzyl alcohol	100-51-6	Water/Liquid	8270C	0.66	10	ug/L	--	--	--	--
Bis(2-chloroethoxy)methane	111-91-1	Water/Liquid	8270C	0.21	10	ug/L	--	--	--	--

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [3]	Minnesota Tier SLV [4]	Minnesota SRV [5]	Minnesota Tier II Industrial SRV [6]
Bis(2-chloroethyl)ether	111-44-4	Water/Liquid	8270C	0.21	10	ug/L	0.3	--	--	--
Bis(2-chloroisopropyl)ether	39638-32-9	Water/Liquid	8270C	0.14	10	ug/L	--	--	--	--
Bis(2-ethylhexyl)phthalate	117-81-7	Water/Liquid	8270C	0.45	10	ug/L	20 (1)	--	--	--
Butyl benzyl phthalate	85-68-7	Water/Liquid	8270C	0.33	10	ug/L	100	--	--	--
Carbazole	86-74-8	Water/Liquid	8270C	0.24	10	ug/L	--	--	--	--
Chrysene	218-01-9	Water/Liquid	8270C	0.15	10	ug/L	--	--	--	--
Dibenz (a,h) anthracene	53-70-3	Water/Liquid	8270C	0.25	10	ug/L	--	--	--	--
Dibenzofuran	132-64-9	Water/Liquid	8270C	0.27	10	ug/L	--	--	--	--
Diethyl phthalate	84-66-2	Water/Liquid	8270C	0.32	10	ug/L	6000	--	--	--
Dimethyl phthalate	131-11-3	Water/Liquid	8270C	0.26	10	ug/L	70000	--	--	--
Di-n-butyl phthalate	84-74-2	Water/Liquid	8270C	0.33	10	ug/L	700	--	--	--
Di-n-octyl phthalate	117-84-0	Water/Liquid	8270C	0.42	10	ug/L	--	--	--	--
Fluoranthene	206-44-0	Water/Liquid	8270C	0.23	10	ug/L	300	--	--	--
Fluorene	86-73-7	Water/Liquid	8270C	0.16	10	ug/L	300	--	--	--
Hexachlorobenzene	118-74-1	Water/Liquid	8270C	0.15	10	ug/L	0.2	--	--	--
Hexachlorobutadiene	87-68-3	Water/Liquid	8270C	0.34	10	ug/L	1	--	--	--
Hexachlorocyclopentadiene	77-47-4	Water/Liquid	8270C	0.22	10	ug/L	--	--	--	--
Hexachloroethane	67-72-1	Water/Liquid	8270C	0.30	10	ug/L	--	--	--	--
Indeno (1,2,3-cd) pyrene	193-39-5	Water/Liquid	8270C	0.19	10	ug/L	--	--	--	--
Isophorone	78-59-1	Water/Liquid	8270C	0.23	10	ug/L	100	--	--	--
Naphthalene	91-20-3	Water/Liquid	8270C	0.19	10	ug/L	300	--	--	--
Nitrobenzene	98-95-3	Water/Liquid	8270C	0.26	10	ug/L	--	--	--	--
N-Nitrosodimethylamine	62-75-9	Water/Liquid	8270C	0.30	10	ug/L	--	--	--	--
N-Nitrosodi-n-propylamine	621-64-7	Water/Liquid	8270C	0.28	10	ug/L	--	--	--	--
N-Nitrosodiphenylamine ***	86-30-6	Water/Liquid	8270C	0.27	10	ug/L	70	--	--	--
Diphenylamine ***	122-39-4	Water/Liquid	8270C	--	--	--	--	--	--	--
Pentachlorophenol	87-86-5	Water/Liquid	8270C	0.99	10	ug/L	1 (3)	--	--	--
Phenanthrene	85-01-8	Water/Liquid	8270C	0.13	10	ug/L	--	--	--	--
Phenol	108-95-2	Water/Liquid	8270C	0.59	10	ug/L	4000	--	--	--
Pyrene	129-00-0	Water/Liquid	8270C	0.24	10	ug/L	200	--	--	--

Notes:
M - the values with this notation indicate the limit is for all combined isomers of this compound
T - the values with this notation represent the limit for the total carcinogenic PAHs as BaP
C - Mercury as mercuric chloride
(TA) - Legend Technical Services, Inc. will subcontract this analysis to Test America, West Sacramento, California.
(Braun) - Legend Technical Services, Inc. will subcontract this analysis to Braun Intertec, Minneapolis, MN.
(1) Not a HRL but a Health Based Value (HBV)
(2) (SRL)-Specific Risk Level (water concentration which corresponds to a riskof 1E-5.
(3) Not a HRL but an EPA Maximum Contaminant Level (MCL).
(4) Value is representative of the lowest exposure duration published in the 2008 Health Risk Limits.
(5) Value represents the criteria for Chromium, hexavalent.
(6) Set at short-term HRL.
(7) Not a HRL, but a Risk Assessment Advice (RAA).
(8) Value represents the criteria for Chromium, Trivalent.
[3] - Minnesota Department of Health, Health Risk Limit (HRL) unless noted otherwise.
[4] - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Soil Leaching Value (SLV)
[5] - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Soil Reference Value (SRV)
[6] - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Tier II Industrial SRV.

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October 13, 2009

Ms. Kelly Neppl
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0904256
RE: 23190B05.07

Enclosed are the results of analyses for samples received by the laboratory on 09/28/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of this report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/13/09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC5-SS2A_0.5-0.5	0904256-01	Soil	09/25/09 09:15	09/28/09 10:20
SOC5-SS2B_0.5-0.5	0904256-02	Soil	09/25/09 09:15	09/28/09 10:20
SOC5-SS1A_0.5-0.5	0904256-03	Soil	09/25/09 10:00	09/28/09 10:20
SOC5-SS1B_0.5-0.5	0904256-04	Soil	09/25/09 10:15	09/28/09 10:20
SOC5-SS1C_0.5-0.5	0904256-05	Soil	09/25/09 10:30	09/28/09 10:20
SOC5-SS1_1.5-2	0904256-06	Soil	09/25/09 10:20	09/28/09 10:20
SOC5-SS19_0.5-0.5	0904256-07	Soil	09/25/09 11:00	09/28/09 10:20
SOC5-SS21_0.5-0.5	0904256-08	Soil	09/25/09 11:00	09/28/09 10:20
SOC5-SS23_0.5-0.5	0904256-09	Soil	09/25/09 11:45	09/28/09 10:20
SOC5-SS27_0.5-0.5	0904256-10	Soil	09/25/09 11:50	09/28/09 10:20
SOC5-SS25_0.5-0.5	0904256-11	Soil	09/25/09 12:15	09/28/09 10:20
SOC5-SS43_0.5-0.5	0904256-12	Soil	09/25/09 13:45	09/28/09 10:20
SOC5-SS44_0.5-0.5	0904256-13	Soil	09/25/09 13:50	09/28/09 10:20
SOC5-SS45_0.5-0.5	0904256-14	Soil	09/25/09 14:10	09/28/09 10:20
SOC5-SS5_0.5-0.5	0904256-15	Soil	09/25/09 12:30	09/28/09 10:20
SOC5-SS39_0.5-0.5	0904256-16	Soil	09/25/09 15:00	09/28/09 10:20
M-1	0904256-17	Soil	09/25/09 00:00	09/28/09 10:20

Shipping Container Information

Default Cooler Temperature (°C): 2.8

Received on ice: Yes
Received on melt water: No
Custody seals: Yes

Temperature blank was present
Ambient: No

Received on ice pack: No
Acceptable (IH/ISO only): No

Case Narrative:

MN Certification does not apply to carbazole in the 8270C analysis.

Recoveries for the 8270 surrogate 2-fluorobiphenyl in samples SOC5-SS44_0.5-0.5 and SOC5-SS39_0.5-0.5 were above laboratory limits. All spike compounds and surrogates were within limits in the batch B9J0204 method blank and LCS/MS/MSD.

Mercury recoveries in the MS/MSD samples for batch B9J0512 were below laboratory control limits. Recoveries in the LCS/LCSD samples and the corresponding RPDs were within limits. The MS/MSD source sample was not associated with this work order.

Zinc recovery in the MSD sample for batch B9J0111 was below laboratory control limits and the corresponding RPD was outside of laboratory control limits. Recoveries in the MS/LCS/LCSD samples and the LCS/LCSD RPD were within limits. The MS/MSD source sample was not associated with this work order.

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/13/09

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS2A_0.5-0.5 (0904256-01) Soil Sampled: 09/25/09 09:15 Received: 09/28/09 10:20										
Mercury	**0.39**	0.11	0.0020	mg/kg dry	1	B9J0512	10/05/09	10/06/09	EPA 7471A	
SOC5-SS2B_0.5-0.5 (0904256-02) Soil Sampled: 09/25/09 09:15 Received: 09/28/09 10:20										
Mercury	**3.8**	1.1	0.020	mg/kg dry	10	B9J0512	10/05/09	10/06/09	EPA 7471A	
SOC5-SS5_0.5-0.5 (0904256-15) Soil Sampled: 09/25/09 12:30 Received: 09/28/09 10:20										
Mercury	<0.12	0.12	0.0021	mg/kg dry	1	B9J0512	10/05/09	10/06/09	EPA 7471A	
SOC5-SS39_0.5-0.5 (0904256-16) Soil Sampled: 09/25/09 15:00 Received: 09/28/09 10:20										
Antimony	<0.61	0.61	0.0067	mg/kg dry	1	B9J0111	10/01/09	10/02/09	EPA 6010B	
Arsenic	**5.8**	0.61	0.12	mg/kg dry	1	"	"	"	"	
Beryllium	<0.30	0.30	0.013	mg/kg dry	1	"	"	"	"	
Cadmium	**0.54**	0.30	0.030	mg/kg dry	1	"	"	"	"	
Chromium	**12**	0.61	0.015	mg/kg dry	1	"	"	"	"	
Copper	<1.2	1.2	0.085	mg/kg dry	1	"	"	"	"	
Lead	**12**	1.2	0.041	mg/kg dry	1	"	"	"	"	
Mercury	<0.12	0.12	0.0022	mg/kg dry	1	B9J0512	10/05/09	10/06/09	EPA 7471A	
Nickel	**11**	0.61	0.017	mg/kg dry	1	B9J0111	10/01/09	10/02/09	EPA 6010B	
Selenium	<1.2	1.2	0.13	mg/kg dry	1	"	"	"	"	
Silver	<0.30	0.30	0.011	mg/kg dry	1	"	"	"	"	
Thallium	<2.4	2.4	0.16	mg/kg dry	1	"	"	"	"	
Zinc	**110**	1.2	0.27	mg/kg dry	1	"	"	"	"	

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4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	10/13/09

PERCENT SOLIDS
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Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS2A_0.5-0.5 (0904256-01) Soil Sampled: 09/25/09 09:15 Received: 09/28/09 10:20										
% Solids	**90**			%	1	B9J0907	10/09/09	10/09/09	% calculation	
SOC5-SS2B_0.5-0.5 (0904256-02) Soil Sampled: 09/25/09 09:15 Received: 09/28/09 10:20										
% Solids	**89**			%	1	B9J0907	10/09/09	10/09/09	% calculation	
SOC5-SS1A_0.5-0.5 (0904256-03) Soil Sampled: 09/25/09 10:00 Received: 09/28/09 10:20										
% Solids	**89**			%	1	B9J0907	10/09/09	10/09/09	% calculation	
SOC5-SS1B_0.5-0.5 (0904256-04) Soil Sampled: 09/25/09 10:15 Received: 09/28/09 10:20										
% Solids	**87**			%	1	B9J0907	10/09/09	10/09/09	% calculation	
SOC5-SS1C_0.5-0.5 (0904256-05) Soil Sampled: 09/25/09 10:30 Received: 09/28/09 10:20										
% Solids	**87**			%	1	B9J0907	10/09/09	10/09/09	% calculation	
SOC5-SS1_1.5-2 (0904256-06) Soil Sampled: 09/25/09 10:20 Received: 09/28/09 10:20										
% Solids	**88**			%	1	B9J0907	10/09/09	10/09/09	% calculation	
SOC5-SS19_0.5-0.5 (0904256-07) Soil Sampled: 09/25/09 11:00 Received: 09/28/09 10:20										
% Solids	**95**			%	1	B9J0907	10/09/09	10/09/09	% calculation	
SOC5-SS21_0.5-0.5 (0904256-08) Soil Sampled: 09/25/09 11:00 Received: 09/28/09 10:20										
% Solids	**93**			%	1	B9J0907	10/09/09	10/09/09	% calculation	
SOC5-SS23_0.5-0.5 (0904256-09) Soil Sampled: 09/25/09 11:45 Received: 09/28/09 10:20										
% Solids	**90**			%	1	B9J0907	10/09/09	10/09/09	% calculation	
SOC5-SS27_0.5-0.5 (0904256-10) Soil Sampled: 09/25/09 11:50 Received: 09/28/09 10:20										
% Solids	**87**			%	1	B9J0907	10/09/09	10/09/09	% calculation	
SOC5-SS25_0.5-0.5 (0904256-11) Soil Sampled: 09/25/09 12:15 Received: 09/28/09 10:20										
% Solids	**87**			%	1	B9J0907	10/09/09	10/09/09	% calculation	
SOC5-SS43_0.5-0.5 (0904256-12) Soil Sampled: 09/25/09 13:45 Received: 09/28/09 10:20										
% Solids	**92**			%	1	B9J0907	10/09/09	10/09/09	% calculation	
SOC5-SS44_0.5-0.5 (0904256-13) Soil Sampled: 09/25/09 13:50 Received: 09/28/09 10:20										
% Solids	**91**			%	1	B9J0907	10/09/09	10/09/09	% calculation	
SOC5-SS45_0.5-0.5 (0904256-14) Soil Sampled: 09/25/09 14:10 Received: 09/28/09 10:20										
% Solids	**87**			%	1	B9J0907	10/09/09	10/09/09	% calculation	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/13/09

PERCENT SOLIDS
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Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS5_0.5-0.5 (0904256-15) Soil Sampled: 09/25/09 12:30 Received: 09/28/09 10:20										
% Solids	**85**			%	1	B9J0907	10/09/09	10/09/09	% calculation	
SOC5-SS39_0.5-0.5 (0904256-16) Soil Sampled: 09/25/09 15:00 Received: 09/28/09 10:20										
% Solids	**82**			%	1	B9J0907	10/09/09	10/09/09	% calculation	
M-1 (0904256-17) Soil Sampled: 09/25/09 00:00 Received: 09/28/09 10:20										
% Solids	**89**			%	1	B9J0907	10/09/09	10/09/09	% calculation	

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Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/13/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS1A_0.5-0.5 (0904256-03) Soil	**Sampled: 09/25/09 10:00**			**Received: 09/28/09 10:20**						
1,2,4-Trichlorobenzene	<0.030	0.37	0.030	mg/kg dry	1	B9J0204	10/02/09	10/02/09	EPA 8270C	
1,2-Dichlorobenzene	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.022	0.37	0.022	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.027	0.37	0.027	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.043	0.75	0.043	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.027	0.75	0.027	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.039	0.75	0.039	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.039	0.75	0.039	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.75	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.065	0.75	0.065	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.024	0.37	0.024	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.048	0.75	0.048	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.043	0.75	0.043	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.031	0.37	0.031	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.039	0.75	0.039	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.022	0.37	0.022	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.040	0.75	0.040	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.44	1.8	0.44	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.037	0.37	0.037	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.083	0.75	0.083	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.019	0.37	0.019	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.045	0.75	0.045	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.12	0.75	0.12	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.030	0.75	0.030	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.75	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	**0.033**	0.37	0.031	mg/kg dry	1	"	"	"	"	J
Acenaphthylene	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.75	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	**0.065**	0.37	0.028	mg/kg dry	1	"	"	"	"	J
Benzidine	<0.81	2.8	0.81	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	**0.095**	0.37	0.030	mg/kg dry	1	"	"	"	"	J
Benzo (a) pyrene	**0.071**	0.37	0.030	mg/kg dry	1	"	"	"	"	J
Benzo (b) fluoranthene	**0.090**	0.37	0.038	mg/kg dry	1	"	"	"	"	J
Benzo (g,h,i) perylene	**0.035**	0.37	0.034	mg/kg dry	1	"	"	"	"	J

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	10/13/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS1A_0.5-0.5 (0904256-03) Soil	**Sampled: 09/25/09 10:00**			**Received: 09/28/09 10:20**						
Benzo (k) fluoranthene	**0.042**	0.37	0.035	mg/kg dry	1	B9J0204	10/02/09	10/02/09	EPA 8270C	J
Benzoic acid	<0.065	0.37	0.065	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.13	0.75	0.13	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.024	0.37	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.027	0.37	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.025	0.37	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.022	0.37	0.022	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.024	0.37	0.024	mg/kg dry	1	"	"	"	"	
Carbazole	<0.025	0.37	0.025	mg/kg dry	1	"	"	"	"	
Chrysene	**0.095**	0.37	0.037	mg/kg dry	1	"	"	"	"	J
Dibenz (a,h) anthracene	<0.038	0.37	0.038	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.017	0.37	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.020	0.37	0.020	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.042	0.37	0.042	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
Fluoranthene	**0.23**	0.37	0.027	mg/kg dry	1	"	"	"	"	J
Fluorene	<0.020	0.37	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.018	0.37	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.037	0.37	0.037	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.046	0.37	0.046	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.031	0.37	0.031	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	**0.037**	0.37	0.036	mg/kg dry	1	"	"	"	"	J
Isophorone	<0.019	0.37	0.019	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.033	0.37	0.033	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.034	0.37	0.034	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.036	0.37	0.036	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.020	0.37	0.020	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.75	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	**0.22**	0.37	0.021	mg/kg dry	1	"	"	"	"	J
Phenol	<0.064	0.75	0.064	mg/kg dry	1	"	"	"	"	
Pyrene	**0.17**	0.37	0.026	mg/kg dry	1	"	"	"	"	J
Surrogate: 2,4,6-Tribromophenol	*81.1*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*68.0*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*65.2*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*61.7*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*71.2*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*66.3*			*43.6-112 %*		"	"	"	"	

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4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/13/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS1B_0.5-0.5 (0904256-04) Soil	**Sampled: 09/25/09 10:15**			**Received: 09/28/09 10:20**						
1,2,4-Trichlorobenzene	<0.031	0.38	0.031	mg/kg dry	1	B9J0204	10/02/09	10/02/09	EPA 8270C	
1,2-Dichlorobenzene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.044	0.77	0.044	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.028	0.77	0.028	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.77	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.067	0.77	0.067	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.049	0.77	0.049	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.044	0.77	0.044	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.041	0.77	0.041	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.45	1.8	0.45	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.085	0.77	0.085	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.046	0.77	0.046	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.77	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.031	0.77	0.031	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.77	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.77	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Benzidine	<0.83	2.9	0.83	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.039	0.38	0.039	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	

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UMP019581

LEGEND Technical Services, Inc.
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88 Empire Drive
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Fax: 651-642-1239

Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	10/13/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS1B_0.5-0.5 (0904256-04) Soil	**Sampled: 09/25/09 10:15**			**Received: 09/28/09 10:20**						
Benzo (k) fluoranthene	<0.036	0.38	0.036	mg/kg dry	1	B9J0204	10/02/09	10/02/09	EPA 8270C	
Benzoic acid	<0.067	0.38	0.067	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.77	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.025	0.38	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Carbazole	<0.025	0.38	0.025	mg/kg dry	1	"	"	"	"	
Chrysene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.039	0.38	0.039	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.017	0.38	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.043	0.38	0.043	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Fluorene	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.018	0.38	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.047	0.38	0.047	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.77	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.066	0.77	0.066	mg/kg dry	1	"	"	"	"	
Pyrene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*88.3*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*70.1*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*67.4*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*64.6*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*74.2*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*68.5*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/13/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS1C_0.5-0.5 (0904256-05) Soil	**Sampled: 09/25/09 10:30**			**Received: 09/28/09 10:20**						
1,2,4-Trichlorobenzene	<0.031	0.38	0.031	mg/kg dry	1	B9J0204	10/02/09	10/02/09	EPA 8270C	
1,2-Dichlorobenzene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.044	0.77	0.044	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.028	0.77	0.028	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.77	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.067	0.77	0.067	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.049	0.77	0.049	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.044	0.77	0.044	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.041	0.77	0.041	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.45	1.8	0.45	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.085	0.77	0.085	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.046	0.77	0.046	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.77	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.031	0.77	0.031	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.77	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.77	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Benzidine	<0.83	2.9	0.83	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	**0.039**	0.38	0.039	mg/kg dry	1	"	"	"	"	J
Benzo (g,h,i) perylene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	10/13/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS1C_0.5-0.5 (0904256-05) Soil	**Sampled: 09/25/09 10:30**			**Received: 09/28/09 10:20**						
Benzo (k) fluoranthene	<0.036	0.38	0.036	mg/kg dry	1	B9J0204	10/02/09	10/02/09	EPA 8270C	
Benzoic acid	<0.067	0.38	0.067	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.77	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.025	0.38	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Carbazole	<0.025	0.38	0.025	mg/kg dry	1	"	"	"	"	
Chrysene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.039	0.38	0.039	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.017	0.38	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.043	0.38	0.043	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Fluoranthene	**0.077**	0.38	0.028	mg/kg dry	1	"	"	"	"	J
Fluorene	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.018	0.38	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.047	0.38	0.047	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.77	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.066	0.77	0.066	mg/kg dry	1	"	"	"	"	
Pyrene	**0.062**	0.38	0.026	mg/kg dry	1	"	"	"	"	J
Surrogate: 2,4,6-Tribromophenol	*92.7*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*72.6*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*71.6*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*68.8*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*78.2*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*71.4*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/13/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS1_1.5-2 (0904256-06) Soil Sampled: 09/25/09 10:20 Received: 09/28/09 10:20										
1,2,4-Trichlorobenzene	<0.031	0.38	0.031	mg/kg dry	1	B9J0204	10/02/09	10/02/09	EPA 8270C	
1,2-Dichlorobenzene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.043	0.76	0.043	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.027	0.76	0.027	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.040	0.76	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.040	0.76	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.76	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.066	0.76	0.066	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.049	0.76	0.049	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.043	0.76	0.043	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.040	0.76	0.040	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.041	0.76	0.041	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.44	1.8	0.44	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.084	0.76	0.084	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.019	0.38	0.019	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.045	0.76	0.045	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.12	0.76	0.12	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.031	0.76	0.031	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.76	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.76	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Benzidine	<0.82	2.8	0.82	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.039	0.38	0.039	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	10/13/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS1_1.5-2 (0904256-06) Soil Sampled: 09/25/09 10:20 Received: 09/28/09 10:20										
Benzo (k) fluoranthene	<0.035	0.38	0.035	mg/kg dry	1	B9J0204	10/02/09	10/02/09	EPA 8270C	
Benzoic acid	<0.066	0.38	0.066	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.76	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.025	0.38	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Carbazole	<0.025	0.38	0.025	mg/kg dry	1	"	"	"	"	
Chrysene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.039	0.38	0.039	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.017	0.38	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.042	0.38	0.042	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
Fluorene	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.018	0.38	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.047	0.38	0.047	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.036	0.38	0.036	mg/kg dry	1	"	"	"	"	
Isophorone	<0.019	0.38	0.019	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.036	0.38	0.036	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.76	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.065	0.76	0.065	mg/kg dry	1	"	"	"	"	
Pyrene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*85.9*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*68.7*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*67.3*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*66.0*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*73.3*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*73.0*			*43.6-112 %*		"	"	"	"	

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88 Empire Drive
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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	10/13/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS19_0.5-0.5 (0904256-07) Soil	**Sampled: 09/25/09 11:00**			**Received: 09/28/09 10:20**						
1,2,4-Trichlorobenzene	<0.028	0.35	0.028	mg/kg dry	1	B9J0204	10/02/09	10/02/09	EPA 8270C	
1,2-Dichlorobenzene	<0.026	0.35	0.026	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.021	0.35	0.021	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.025	0.35	0.025	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.040	0.71	0.040	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.025	0.71	0.025	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.037	0.71	0.037	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.037	0.71	0.037	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.095	0.71	0.095	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.061	0.71	0.061	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.045	0.71	0.045	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.040	0.71	0.040	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.029	0.35	0.029	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.037	0.71	0.037	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.021	0.35	0.021	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.038	0.71	0.038	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.41	1.7	0.41	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.035	0.35	0.035	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.078	0.71	0.078	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.018	0.35	0.018	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.042	0.71	0.042	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.12	0.71	0.12	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.028	0.71	0.028	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.10	0.71	0.10	mg/kg dry	1	"	"	"	"	
Acenaphthene	**0.18**	0.35	0.029	mg/kg dry	1	"	"	"	"	J
Acenaphthylene	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
Aniline	<0.095	0.71	0.095	mg/kg dry	1	"	"	"	"	
Anthracene	**0.41**	0.35	0.026	mg/kg dry	1	"	"	"	"	
Benzidine	<0.76	2.6	0.76	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	**1.0**	0.35	0.028	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	**0.90**	0.35	0.028	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	**1.2**	0.35	0.036	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	**0.47**	0.35	0.032	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	10/13/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS19_0.5-0.5 (0904256-07) Soil	**Sampled: 09/25/09 11:00**			**Received: 09/28/09 10:20**						
Benzo (k) fluoranthene	**0.50**	0.35	0.033	mg/kg dry	1	B9J0204	10/02/09	10/02/09	EPA 8270C	
Benzoic acid	<0.061	0.35	0.061	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.13	0.71	0.13	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.025	0.35	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.023	0.35	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.021	0.35	0.021	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
Carbazole	**0.16**	0.35	0.023	mg/kg dry	1	"	"	"	"	J
Chrysene	**1.2**	0.35	0.035	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	**0.14**	0.35	0.036	mg/kg dry	1	"	"	"	"	J
Dibenzofuran	**0.088**	0.35	0.020	mg/kg dry	1	"	"	"	"	J
Diethyl phthalate	<0.016	0.35	0.016	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.019	0.35	0.019	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.039	0.35	0.039	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.026	0.35	0.026	mg/kg dry	1	"	"	"	"	
Fluoranthene	**2.4**	0.35	0.025	mg/kg dry	1	"	"	"	"	
Fluorene	**0.21**	0.35	0.019	mg/kg dry	1	"	"	"	"	J
Hexachlorobenzene	<0.017	0.35	0.017	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.035	0.35	0.035	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.043	0.35	0.043	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.029	0.35	0.029	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	**0.50**	0.35	0.034	mg/kg dry	1	"	"	"	"	
Isophorone	<0.018	0.35	0.018	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.031	0.35	0.031	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.032	0.35	0.032	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.034	0.35	0.034	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.026	0.35	0.026	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.019	0.35	0.019	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.10	0.71	0.10	mg/kg dry	1	"	"	"	"	
Phenanthrene	**1.8**	0.35	0.020	mg/kg dry	1	"	"	"	"	
Phenol	<0.060	0.71	0.060	mg/kg dry	1	"	"	"	"	
Pyrene	**2.0**	0.35	0.024	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*86.1*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*65.2*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*61.3*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*59.1*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*68.0*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*70.9*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	10/13/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS21_0.5-0.5 (0904256-08) Soil	**Sampled: 09/25/09 11:00**			**Received: 09/28/09 10:20**						
1,2,4-Trichlorobenzene	<0.029	0.35	0.029	mg/kg dry	1	B9J0204	10/02/09	10/02/09	EPA 8270C	
1,2-Dichlorobenzene	<0.027	0.35	0.027	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.025	0.35	0.025	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.026	0.35	0.026	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.041	0.72	0.041	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.026	0.72	0.026	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.038	0.72	0.038	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.038	0.72	0.038	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.097	0.72	0.097	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.062	0.72	0.062	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.023	0.35	0.023	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.046	0.72	0.046	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.041	0.72	0.041	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.030	0.35	0.030	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.038	0.72	0.038	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.039	0.72	0.039	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.42	1.7	0.42	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.035	0.35	0.035	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.080	0.72	0.080	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.018	0.35	0.018	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.043	0.72	0.043	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.12	0.72	0.12	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.025	0.35	0.025	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.029	0.72	0.029	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.025	0.35	0.025	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.72	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	**0.10**	0.35	0.030	mg/kg dry	1	"	"	"	"	J
Acenaphthylene	<0.025	0.35	0.025	mg/kg dry	1	"	"	"	"	
Aniline	<0.097	0.72	0.097	mg/kg dry	1	"	"	"	"	
Anthracene	**0.23**	0.35	0.027	mg/kg dry	1	"	"	"	"	J
Benzidine	<0.77	2.7	0.77	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	**0.75**	0.35	0.029	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	**0.68**	0.35	0.029	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	**0.96**	0.35	0.037	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	**0.38**	0.35	0.032	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	10/13/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS21_0.5-0.5 (0904256-08) Soil	**Sampled: 09/25/09 11:00**			**Received: 09/28/09 10:20**						
Benzo (k) fluoranthene	**0.43**	0.35	0.033	mg/kg dry	1	B9J0204	10/02/09	10/02/09	EPA 8270C	
Benzoic acid	<0.062	0.35	0.062	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.13	0.72	0.13	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.023	0.35	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.026	0.35	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.023	0.35	0.023	mg/kg dry	1	"	"	"	"	
Carbazole	**0.16**	0.35	0.024	mg/kg dry	1	"	"	"	"	J
Chrysene	**0.95**	0.35	0.035	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	**0.11**	0.35	0.037	mg/kg dry	1	"	"	"	"	J
Dibenzofuran	**0.061**	0.35	0.020	mg/kg dry	1	"	"	"	"	J
Diethyl phthalate	<0.016	0.35	0.016	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.019	0.35	0.019	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.040	0.35	0.040	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.027	0.35	0.027	mg/kg dry	1	"	"	"	"	
Fluoranthene	**1.9**	0.35	0.026	mg/kg dry	1	"	"	"	"	
Fluorene	**0.12**	0.35	0.019	mg/kg dry	1	"	"	"	"	J
Hexachlorobenzene	<0.017	0.35	0.017	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.035	0.35	0.035	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.044	0.35	0.044	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.030	0.35	0.030	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	**0.40**	0.35	0.034	mg/kg dry	1	"	"	"	"	
Isophorone	<0.018	0.35	0.018	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.031	0.35	0.031	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.032	0.35	0.032	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.034	0.35	0.034	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.027	0.35	0.027	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.019	0.35	0.019	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.10	0.72	0.10	mg/kg dry	1	"	"	"	"	
Phenanthrene	**1.4**	0.35	0.020	mg/kg dry	1	"	"	"	"	
Phenol	<0.061	0.72	0.061	mg/kg dry	1	"	"	"	"	
Pyrene	**1.6**	0.35	0.025	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*84.1*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*65.3*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*63.1*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*62.2*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*68.5*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*70.5*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/13/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS23_0.5-0.5 (0904256-09) Soil	**Sampled: 09/25/09 11:45**			**Received: 09/28/09 10:20**						
1,2,4-Trichlorobenzene	<0.030	0.37	0.030	mg/kg dry	1	B9J0204	10/02/09	10/02/09	EPA 8270C	
1,2-Dichlorobenzene	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.022	0.37	0.022	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.027	0.37	0.027	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.042	0.74	0.042	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.027	0.74	0.027	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.039	0.74	0.039	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.039	0.74	0.039	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.74	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.064	0.74	0.064	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.023	0.37	0.023	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.048	0.74	0.048	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.042	0.74	0.042	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.031	0.37	0.031	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.039	0.74	0.039	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.022	0.37	0.022	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.040	0.74	0.040	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.43	1.8	0.43	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.037	0.37	0.037	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.082	0.74	0.082	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.019	0.37	0.019	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.044	0.74	0.044	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.12	0.74	0.12	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.030	0.74	0.030	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.74	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.031	0.37	0.031	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.74	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	**0.044**	0.37	0.028	mg/kg dry	1	"	"	"	"	J
Benzidine	<0.80	2.8	0.80	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	**0.14**	0.37	0.030	mg/kg dry	1	"	"	"	"	J
Benzo (a) pyrene	**0.12**	0.37	0.030	mg/kg dry	1	"	"	"	"	J
Benzo (b) fluoranthene	**0.17**	0.37	0.038	mg/kg dry	1	"	"	"	"	J
Benzo (g,h,i) perylene	**0.066**	0.37	0.033	mg/kg dry	1	"	"	"	"	J

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/13/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS23_0.5-0.5 (0904256-09) Soil	**Sampled: 09/25/09 11:45**			**Received: 09/28/09 10:20**						
Benzo (k) fluoranthene	**0.077**	0.37	0.034	mg/kg dry	1	B9J0204	10/02/09	10/02/09	EPA 8270C	J
Benzoic acid	<0.064	0.37	0.064	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.13	0.74	0.13	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.023	0.37	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.027	0.37	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.024	0.37	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.022	0.37	0.022	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.023	0.37	0.023	mg/kg dry	1	"	"	"	"	
Carbazole	<0.024	0.37	0.024	mg/kg dry	1	"	"	"	"	
Chrysene	**0.16**	0.37	0.037	mg/kg dry	1	"	"	"	"	J
Dibenz (a,h) anthracene	<0.038	0.37	0.038	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.017	0.37	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.020	0.37	0.020	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.041	0.37	0.041	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
Fluoranthene	**0.33**	0.37	0.027	mg/kg dry	1	"	"	"	"	J
Fluorene	<0.020	0.37	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.018	0.37	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.037	0.37	0.037	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.046	0.37	0.046	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.031	0.37	0.031	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	**0.073**	0.37	0.036	mg/kg dry	1	"	"	"	"	J
Isophorone	<0.019	0.37	0.019	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.032	0.37	0.032	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.033	0.37	0.033	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.036	0.37	0.036	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.020	0.37	0.020	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.74	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	**0.21**	0.37	0.021	mg/kg dry	1	"	"	"	"	J
Phenol	<0.063	0.74	0.063	mg/kg dry	1	"	"	"	"	
Pyrene	**0.27**	0.37	0.026	mg/kg dry	1	"	"	"	"	J
Surrogate: 2,4,6-Tribromophenol	*87.7*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*69.8*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*66.5*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*65.5*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*73.0*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*69.5*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/13/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS27_0.5-0.5 (0904256-10) Soil	**Sampled: 09/25/09 11:50**			**Received: 09/28/09 10:20**						
1,2,4-Trichlorobenzene	<0.031	0.38	0.031	mg/kg dry	1	B9J0204	10/02/09	10/02/09	EPA 8270C	
1,2-Dichlorobenzene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.044	0.77	0.044	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.028	0.77	0.028	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.77	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.067	0.77	0.067	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.049	0.77	0.049	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.044	0.77	0.044	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.041	0.77	0.041	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.45	1.8	0.45	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.085	0.77	0.085	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.046	0.77	0.046	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.77	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.031	0.77	0.031	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.77	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	**0.10**	0.38	0.032	mg/kg dry	1	"	"	"	"	J
Acenaphthylene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.77	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	**0.29**	0.38	0.029	mg/kg dry	1	"	"	"	"	J
Benzidine	<0.83	2.9	0.83	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	**0.59**	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	**0.49**	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	**0.65**	0.38	0.039	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	**0.24**	0.38	0.034	mg/kg dry	1	"	"	"	"	J

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	10/13/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS27_0.5-0.5 (0904256-10) Soil	**Sampled: 09/25/09 11:50**			**Received: 09/28/09 10:20**						
Benzo (k) fluoranthene	**0.28**	0.38	0.036	mg/kg dry	1	B9J0204	10/02/09	10/02/09	EPA 8270C	J
Benzoic acid	<0.067	0.38	0.067	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.77	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.025	0.38	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Carbazole	**0.14**	0.38	0.025	mg/kg dry	1	"	"	"	"	J
Chrysene	**0.63**	0.38	0.038	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	**0.080**	0.38	0.039	mg/kg dry	1	"	"	"	"	J
Dibenzofuran	**0.049**	0.38	0.022	mg/kg dry	1	"	"	"	"	J
Diethyl phthalate	<0.017	0.38	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.043	0.38	0.043	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Fluoranthene	**1.3**	0.38	0.028	mg/kg dry	1	"	"	"	"	
Fluorene	**0.11**	0.38	0.021	mg/kg dry	1	"	"	"	"	J
Hexachlorobenzene	<0.018	0.38	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.047	0.38	0.047	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	**0.27**	0.38	0.037	mg/kg dry	1	"	"	"	"	J
Isophorone	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.77	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	**0.90**	0.38	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.066	0.77	0.066	mg/kg dry	1	"	"	"	"	
Pyrene	**1.1**	0.38	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*87.2*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*67.6*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*65.0*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*62.4*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*71.2*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*70.6*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/13/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS25_0.5-0.5 (0904256-11) Soil	**Sampled: 09/25/09 12:15**			**Received: 09/28/09 10:20**						
1,2,4-Trichlorobenzene	<0.031	0.38	0.031	mg/kg dry	1	B9J0204	10/02/09	10/02/09	EPA 8270C	
1,2-Dichlorobenzene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.044	0.77	0.044	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.028	0.77	0.028	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.77	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.067	0.77	0.067	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.049	0.77	0.049	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.044	0.77	0.044	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	**0.087**	0.38	0.032	mg/kg dry	1	"	"	"	"	J
2-Methylphenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.041	0.77	0.041	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.45	1.8	0.45	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.085	0.77	0.085	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.046	0.77	0.046	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.77	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.031	0.77	0.031	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.77	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	**0.31**	0.38	0.032	mg/kg dry	1	"	"	"	"	J
Acenaphthylene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.77	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	**0.62**	0.38	0.029	mg/kg dry	1	"	"	"	"	
Benzidine	<0.83	2.9	0.83	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	**1.2**	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	**1.0**	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	**1.4**	0.38	0.039	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	**0.51**	0.38	0.034	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	10/13/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS25_0.5-0.5 (0904256-11) Soil	**Sampled: 09/25/09 12:15**			**Received: 09/28/09 10:20**						
Benzo (k) fluoranthene	**0.58**	0.38	0.036	mg/kg dry	1	B9J0204	10/02/09	10/02/09	EPA 8270C	
Benzoic acid	<0.067	0.38	0.067	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.77	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.025	0.38	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Carbazole	**0.38**	0.38	0.025	mg/kg dry	1	"	"	"	"	
Chrysene	**1.4**	0.38	0.038	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	**0.17**	0.38	0.039	mg/kg dry	1	"	"	"	"	J
Dibenzofuran	**0.18**	0.38	0.022	mg/kg dry	1	"	"	"	"	J
Diethyl phthalate	<0.017	0.38	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.043	0.38	0.043	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Fluoranthene	**2.9**	0.38	0.028	mg/kg dry	1	"	"	"	"	
Fluorene	**0.33**	0.38	0.021	mg/kg dry	1	"	"	"	"	J
Hexachlorobenzene	<0.018	0.38	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.047	0.38	0.047	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	**0.57**	0.38	0.037	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	**0.19**	0.38	0.033	mg/kg dry	1	"	"	"	"	J
Nitrobenzene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.77	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	**2.6**	0.38	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.066	0.77	0.066	mg/kg dry	1	"	"	"	"	
Pyrene	**2.4**	0.38	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*84.9*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*66.4*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*62.9*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*60.9*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*68.8*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*69.5*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/13/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS43_0.5-0.5 (0904256-12) Soil	**Sampled: 09/25/09 13:45**			**Received: 09/28/09 10:20**						
1,2,4-Trichlorobenzene	<0.029	0.36	0.029	mg/kg dry	1	B9J0204	10/02/09	10/05/09	EPA 8270C	
1,2-Dichlorobenzene	<0.027	0.36	0.027	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.022	0.36	0.022	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.025	0.36	0.025	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.026	0.36	0.026	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.041	0.73	0.041	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.026	0.73	0.026	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.038	0.73	0.038	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.038	0.73	0.038	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.098	0.73	0.098	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.063	0.73	0.063	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.023	0.36	0.023	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.047	0.73	0.047	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.021	0.36	0.021	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.021	0.36	0.021	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.041	0.73	0.041	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.030	0.36	0.030	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.038	0.73	0.038	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.022	0.36	0.022	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.039	0.73	0.039	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.42	1.7	0.42	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.036	0.36	0.036	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.080	0.73	0.080	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.018	0.36	0.018	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.043	0.73	0.043	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.12	0.73	0.12	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.025	0.36	0.025	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.029	0.73	0.029	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.025	0.36	0.025	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.73	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	**0.10**	0.36	0.030	mg/kg dry	1	"	"	"	"	J
Acenaphthylene	<0.025	0.36	0.025	mg/kg dry	1	"	"	"	"	
Aniline	<0.098	0.73	0.098	mg/kg dry	1	"	"	"	"	
Anthracene	**0.21**	0.36	0.027	mg/kg dry	1	"	"	"	"	J
Benzidine	<0.78	2.7	0.78	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	**0.60**	0.36	0.029	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	**0.41**	0.36	0.029	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	**0.63**	0.36	0.037	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	**0.43**	0.36	0.033	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/13/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS43_0.5-0.5 (0904256-12) Soil	**Sampled: 09/25/09 13:45**			**Received: 09/28/09 10:20**						
Benzo (k) fluoranthene	**0.22**	0.36	0.034	mg/kg dry	1	B9J0204	10/02/09	10/05/09	EPA 8270C	J
Benzoic acid	<0.063	0.36	0.063	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.13	0.73	0.13	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.023	0.36	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.026	0.36	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.024	0.36	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.022	0.36	0.022	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.023	0.36	0.023	mg/kg dry	1	"	"	"	"	
Carbazole	<0.024	0.36	0.024	mg/kg dry	1	"	"	"	"	
Chrysene	**0.51**	0.36	0.036	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.037	0.36	0.037	mg/kg dry	1	"	"	"	"	
Dibenzofuran	**0.042**	0.36	0.021	mg/kg dry	1	"	"	"	"	J
Diethyl phthalate	<0.016	0.36	0.016	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.020	0.36	0.020	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.040	0.36	0.040	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.027	0.36	0.027	mg/kg dry	1	"	"	"	"	
Fluoranthene	**1.1**	0.36	0.026	mg/kg dry	1	"	"	"	"	
Fluorene	**0.24**	0.36	0.020	mg/kg dry	1	"	"	"	"	J
Hexachlorobenzene	<0.017	0.36	0.017	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.036	0.36	0.036	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.045	0.36	0.045	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.030	0.36	0.030	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	**0.38**	0.36	0.035	mg/kg dry	1	"	"	"	"	
Isophorone	<0.018	0.36	0.018	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.032	0.36	0.032	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.033	0.36	0.033	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.035	0.36	0.035	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.027	0.36	0.027	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.020	0.36	0.020	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.10	0.73	0.10	mg/kg dry	1	"	"	"	"	
Phenanthrene	**0.86**	0.36	0.021	mg/kg dry	1	"	"	"	"	
Phenol	<0.062	0.73	0.062	mg/kg dry	1	"	"	"	"	
Pyrene	**1.1**	0.36	0.025	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*83.0*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*80.3*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*74.1*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*79.4*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*74.9*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*109*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	10/13/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS44_0.5-0.5 (0904256-13) Soil	**Sampled: 09/25/09 13:50**			**Received: 09/28/09 10:20**						
1,2,4-Trichlorobenzene	<0.030	0.36	0.030	mg/kg dry	1	B9J0204	10/02/09	10/05/09	EPA 8270C	
1,2-Dichlorobenzene	<0.027	0.36	0.027	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.022	0.36	0.022	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.025	0.36	0.025	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.026	0.36	0.026	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.042	0.74	0.042	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.026	0.74	0.026	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.038	0.74	0.038	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.038	0.74	0.038	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.099	0.74	0.099	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.064	0.74	0.064	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.023	0.36	0.023	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.047	0.74	0.047	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.021	0.36	0.021	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.021	0.36	0.021	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.042	0.74	0.042	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	**1.6**	0.36	0.031	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.038	0.74	0.038	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.022	0.36	0.022	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.040	0.74	0.040	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.43	1.8	0.43	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.036	0.36	0.036	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.081	0.74	0.081	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.019	0.36	0.019	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.044	0.74	0.044	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.12	0.74	0.12	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.025	0.36	0.025	mg/kg dry	1	"	"	"	"	
4-Methylphenol	**0.054**	0.74	0.030	mg/kg dry	1	"	"	"	"	J
4-Nitroaniline	<0.025	0.36	0.025	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.74	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	**3.9**	0.36	0.031	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.025	0.36	0.025	mg/kg dry	1	"	"	"	"	
Aniline	<0.099	0.74	0.099	mg/kg dry	1	"	"	"	"	
Anthracene	**5.8**	0.36	0.027	mg/kg dry	1	"	"	"	"	
Benzidine	<0.79	2.7	0.79	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	**6.6**	0.36	0.030	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	**4.7**	0.36	0.030	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	**5.5**	0.36	0.037	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	**1.7**	0.36	0.033	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/13/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS44_0.5-0.5 (0904256-13) Soil	**Sampled: 09/25/09 13:50**			**Received: 09/28/09 10:20**						
Benzo (k) fluoranthene	**2.2**	0.36	0.034	mg/kg dry	1	B9J0204	10/02/09	10/05/09	EPA 8270C	
Benzoic acid	<0.064	0.36	0.064	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.13	0.74	0.13	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.023	0.36	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.026	0.36	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.024	0.36	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.022	0.36	0.022	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.023	0.36	0.023	mg/kg dry	1	"	"	"	"	
Carbazole	**2.5**	0.36	0.024	mg/kg dry	1	"	"	"	"	
Chrysene	**5.8**	0.36	0.036	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	**0.76**	0.36	0.037	mg/kg dry	1	"	"	"	"	
Dibenzofuran	**2.5**	0.36	0.021	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.016	0.36	0.016	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.020	0.36	0.020	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.041	0.36	0.041	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.027	0.36	0.027	mg/kg dry	1	"	"	"	"	
Fluoranthene	**14**	3.6	0.26	mg/kg dry	10	"	"	10/05/09	"	
Fluorene	**3.8**	0.36	0.020	mg/kg dry	1	"	"	10/05/09	"	
Hexachlorobenzene	<0.018	0.36	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.036	0.36	0.036	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.045	0.36	0.045	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.031	0.36	0.031	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	**2.2**	0.36	0.035	mg/kg dry	1	"	"	"	"	
Isophorone	<0.019	0.36	0.019	mg/kg dry	1	"	"	"	"	
Naphthalene	**2.4**	0.36	0.032	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.033	0.36	0.033	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.035	0.36	0.035	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.027	0.36	0.027	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.020	0.36	0.020	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.74	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	**19**	3.6	0.21	mg/kg dry	10	"	"	10/05/09	"	
Phenol	<0.063	0.74	0.063	mg/kg dry	1	"	"	10/05/09	"	
Pyrene	**12**	3.6	0.25	mg/kg dry	10	"	"	10/05/09	"	
Surrogate: 2,4,6-Tribromophenol	*88.0*			*47.2-108 %*		"	"	*10/05/09*	"	
Surrogate: 2-Fluorobiphenyl	*86.3*			*53.2-85.1 %*		"	"	"	"	*S-BN*
Surrogate: 2-Fluorophenol	*74.7*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*76.5*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*75.4*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*85.9*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/13/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS45_0.5-0.5 (0904256-14) Soil	**Sampled: 09/25/09 14:10**			**Received: 09/28/09 10:20**						
1,2,4-Trichlorobenzene	<0.031	0.38	0.031	mg/kg dry	1	B9J0204	10/02/09	10/05/09	EPA 8270C	
1,2-Dichlorobenzene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.044	0.77	0.044	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.028	0.77	0.028	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.77	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.067	0.77	0.067	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.049	0.77	0.049	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.044	0.77	0.044	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.041	0.77	0.041	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.45	1.8	0.45	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.085	0.77	0.085	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.046	0.77	0.046	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.77	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.031	0.77	0.031	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.77	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	**0.034**	0.38	0.032	mg/kg dry	1	"	"	"	"	J
Acenaphthylene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.77	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	**0.082**	0.38	0.029	mg/kg dry	1	"	"	"	"	J
Benzidine	<0.83	2.9	0.83	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	**0.35**	0.38	0.031	mg/kg dry	1	"	"	"	"	J
Benzo (a) pyrene	**0.25**	0.38	0.031	mg/kg dry	1	"	"	"	"	J
Benzo (b) fluoranthene	**0.47**	0.38	0.039	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	**0.40**	0.38	0.034	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/13/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS45_0.5-0.5 (0904256-14) Soil	**Sampled: 09/25/09 14:10**			**Received: 09/28/09 10:20**						
Benzo (k) fluoranthene	**0.15**	0.38	0.036	mg/kg dry	1	B9J0204	10/02/09	10/05/09	EPA 8270C	J
Benzoic acid	<0.067	0.38	0.067	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.77	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.025	0.38	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Carbazole	<0.025	0.38	0.025	mg/kg dry	1	"	"	"	"	
Chrysene	**0.35**	0.38	0.038	mg/kg dry	1	"	"	"	"	J
Dibenz (a,h) anthracene	<0.039	0.38	0.039	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.017	0.38	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.043	0.38	0.043	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Fluoranthene	**0.68**	0.38	0.028	mg/kg dry	1	"	"	"	"	
Fluorene	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.018	0.38	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.047	0.38	0.047	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	**0.32**	0.38	0.037	mg/kg dry	1	"	"	"	"	J
Isophorone	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.77	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	**0.42**	0.38	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.066	0.77	0.066	mg/kg dry	1	"	"	"	"	
Pyrene	**0.66**	0.38	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*77.3*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*75.2*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*68.0*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*71.0*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*68.6*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*92.6*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/13/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS39_0.5-0.5 (0904256-16) Soil	**Sampled: 09/25/09 15:00**			**Received: 09/28/09 10:20**						
1,2,4-Trichlorobenzene	<0.033	0.40	0.033	mg/kg dry	1	B9J0204	10/02/09	10/05/09	EPA 8270C	
1,2-Dichlorobenzene	<0.030	0.40	0.030	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.024	0.40	0.024	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.029	0.40	0.029	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.046	0.82	0.046	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.029	0.82	0.029	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.043	0.82	0.043	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.043	0.82	0.043	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.82	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.071	0.82	0.071	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.026	0.40	0.026	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.052	0.82	0.052	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.023	0.40	0.023	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.023	0.40	0.023	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.046	0.82	0.046	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.034	0.40	0.034	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.043	0.82	0.043	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.024	0.40	0.024	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.044	0.82	0.044	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.48	2.0	0.48	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.040	0.40	0.040	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.090	0.82	0.090	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.021	0.40	0.021	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.049	0.82	0.049	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.82	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.033	0.82	0.033	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.82	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.034	0.40	0.034	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
Aniline	<0.11	0.82	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	<0.030	0.40	0.030	mg/kg dry	1	"	"	"	"	
Benzidine	<0.88	3.0	0.88	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	**0.080**	0.40	0.033	mg/kg dry	1	"	"	"	"	J
Benzo (a) pyrene	<0.033	0.40	0.033	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	**0.18**	0.40	0.041	mg/kg dry	1	"	"	"	"	J
Benzo (g,h,i) perylene	<0.037	0.40	0.037	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	10/13/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS39_0.5-0.5 (0904256-16) Soil	**Sampled: 09/25/09 15:00**			**Received: 09/28/09 10:20**						
Benzo (k) fluoranthene	<0.038	0.40	0.038	mg/kg dry	1	B9J0204	10/02/09	10/05/09	EPA 8270C	
Benzoic acid	<0.071	0.40	0.071	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.15	0.82	0.15	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.026	0.40	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.029	0.40	0.029	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.027	0.40	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.024	0.40	0.024	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.026	0.40	0.026	mg/kg dry	1	"	"	"	"	
Carbazole	<0.027	0.40	0.027	mg/kg dry	1	"	"	"	"	
Chrysene	**0.068**	0.40	0.040	mg/kg dry	1	"	"	"	"	J
Dibenz (a,h) anthracene	<0.041	0.40	0.041	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.023	0.40	0.023	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.018	0.40	0.018	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.022	0.40	0.022	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.045	0.40	0.045	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.030	0.40	0.030	mg/kg dry	1	"	"	"	"	
Fluoranthene	**0.15**	0.40	0.029	mg/kg dry	1	"	"	"	"	J
Fluorene	<0.022	0.40	0.022	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.020	0.40	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.040	0.40	0.040	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.050	0.40	0.050	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.034	0.40	0.034	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.039	0.40	0.039	mg/kg dry	1	"	"	"	"	
Isophorone	<0.021	0.40	0.021	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.035	0.40	0.035	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.037	0.40	0.037	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.039	0.40	0.039	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.030	0.40	0.030	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.022	0.40	0.022	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.12	0.82	0.12	mg/kg dry	1	"	"	"	"	
Phenanthrene	**0.10**	0.40	0.023	mg/kg dry	1	"	"	"	"	J
Phenol	<0.070	0.82	0.070	mg/kg dry	1	"	"	"	"	
Pyrene	**0.13**	0.40	0.028	mg/kg dry	1	"	"	"	"	J
Surrogate: 2,4,6-Tribromophenol	*80.3*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*86.4*			*53.2-85.1 %*		"	"	"	"	*S-BN*
Surrogate: 2-Fluorophenol	*75.8*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*86.8*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*79.2*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*107*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	10/13/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
M-1 (0904256-17) Soil Sampled: 09/25/09 00:00 Received: 09/28/09 10:20										
1,2,4-Trichlorobenzene	<0.030	0.37	0.030	mg/kg dry	1	B9J0204	10/02/09	10/05/09	EPA 8270C	
1,2-Dichlorobenzene	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.022	0.37	0.022	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.027	0.37	0.027	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.043	0.75	0.043	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.027	0.75	0.027	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.039	0.75	0.039	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.039	0.75	0.039	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.75	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.065	0.75	0.065	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.024	0.37	0.024	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.048	0.75	0.048	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.043	0.75	0.043	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.031	0.37	0.031	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.039	0.75	0.039	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.022	0.37	0.022	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.040	0.75	0.040	mg/kg dry	1	"	"	"	"	
3,3´-Dichlorobenzidine	<0.44	1.8	0.44	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.037	0.37	0.037	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.083	0.75	0.083	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.019	0.37	0.019	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.045	0.75	0.045	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.12	0.75	0.12	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.030	0.75	0.030	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.75	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.031	0.37	0.031	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.75	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
Benzidine	<0.81	2.8	0.81	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.030	0.37	0.030	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.030	0.37	0.030	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.038	0.37	0.038	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.034	0.37	0.034	mg/kg dry	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	10/13/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
M-1 (0904256-17) Soil Sampled: 09/25/09 00:00 Received: 09/28/09 10:20										
Benzo (k) fluoranthene	<0.035	0.37	0.035	mg/kg dry	1	B9J0204	10/02/09	10/05/09	EPA 8270C	
Benzoic acid	<0.065	0.37	0.065	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.13	0.75	0.13	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.024	0.37	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.027	0.37	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.025	0.37	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.022	0.37	0.022	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.024	0.37	0.024	mg/kg dry	1	"	"	"	"	
Carbazole	<0.025	0.37	0.025	mg/kg dry	1	"	"	"	"	
Chrysene	<0.037	0.37	0.037	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.038	0.37	0.038	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.017	0.37	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.020	0.37	0.020	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.042	0.37	0.042	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.027	0.37	0.027	mg/kg dry	1	"	"	"	"	
Fluorene	<0.020	0.37	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.018	0.37	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.037	0.37	0.037	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.046	0.37	0.046	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.031	0.37	0.031	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.036	0.37	0.036	mg/kg dry	1	"	"	"	"	
Isophorone	<0.019	0.37	0.019	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.033	0.37	0.033	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.034	0.37	0.034	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.036	0.37	0.036	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.020	0.37	0.020	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.75	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
Phenol	<0.064	0.75	0.064	mg/kg dry	1	"	"	"	"	
Pyrene	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*80.2*			*47.2-108 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*84.9*			*53.2-85.1 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*74.5*			*48.5-90.1 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*81.9*			*49.1-86.9 %*		"	"	"	"	
Surrogate: Phenol-d6	*76.7*			*47.6-99.6 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*103*			*43.6-112 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	10/13/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9J0111 - EPA 3050B											
Blank (B9J0111-BLK1)					Prepared: 10/01/09	Analyzed: 10/02/09					
Antimony	< 0.50	0.50	0.0055	mg/kg wet							
Arsenic	< 0.50	0.50	0.10	mg/kg wet							
Beryllium	< 0.25	0.25	0.011	mg/kg wet							
Cadmium	< 0.25	0.25	0.025	mg/kg wet							
Chromium	< 0.50	0.50	0.012	mg/kg wet							
Copper	< 1.0	1.0	0.070	mg/kg wet							
Lead	< 1.0	1.0	0.034	mg/kg wet							
Nickel	< 0.50	0.50	0.014	mg/kg wet							
Selenium	< 1.0	1.0	0.11	mg/kg wet							
Silver	< 0.25	0.25	0.0090	mg/kg wet							
Thallium	< 2.0	2.0	0.13	mg/kg wet							
Zinc	< 1.0	1.0	0.22	mg/kg wet							
LCS (B9J0111-BS1)					Prepared: 10/01/09	Analyzed: 10/02/09					
Antimony	36.0	0.50	0.0055	mg/kg wet	39.9		90.1	80-120			
Arsenic	37.3	0.50	0.10	mg/kg wet	39.9		93.6	80-120			
Beryllium	3.74	0.25	0.011	mg/kg wet	3.99		93.7	80-120			
Cadmium	39.4	0.25	0.025	mg/kg wet	39.9		98.7	80-120			
Chromium	39.3	0.50	0.012	mg/kg wet	39.9		98.5	80-120			
Copper	37.6	1.0	0.070	mg/kg wet	39.9		94.1	80-120			
Lead	39.5	1.0	0.034	mg/kg wet	39.9		99.1	80-120			
Nickel	39.3	0.50	0.014	mg/kg wet	39.9		98.4	80-120			
Selenium	37.0	1.0	0.11	mg/kg wet	39.9		92.7	80-120			
Silver	3.71	0.25	0.0090	mg/kg wet	3.99		92.9	80-120			
Thallium	38.5	2.0	0.13	mg/kg wet	39.9		96.4	80-120			
Zinc	39.8	1.0	0.22	mg/kg wet	39.9		99.8	80-120			
LCS Dup (B9J0111-BSD1)					Prepared: 10/01/09	Analyzed: 10/02/09					
Antimony	36.0	0.50	0.0055	mg/kg wet	39.9		90.2	80-120	0.122	20	
Arsenic	37.2	0.50	0.10	mg/kg wet	39.9		93.2	80-120	0.463	20	
Beryllium	3.71	0.25	0.011	mg/kg wet	3.99		92.9	80-120	0.861	20	
Cadmium	39.1	0.25	0.025	mg/kg wet	39.9		97.9	80-120	0.826	20	
Chromium	39.0	0.50	0.012	mg/kg wet	39.9		97.8	80-120	0.638	20	
Copper	38.1	1.0	0.070	mg/kg wet	39.9		95.5	80-120	1.42	20	
Lead	39.2	1.0	0.034	mg/kg wet	39.9		98.2	80-120	0.927	20	
Nickel	39.0	0.50	0.014	mg/kg wet	39.9		97.7	80-120	0.701	20	
Selenium	36.4	1.0	0.11	mg/kg wet	39.9		91.3	80-120	1.57	20	
Silver	3.71	0.25	0.0090	mg/kg wet	3.99		93.0	80-120	0.116	20	
Thallium	38.4	2.0	0.13	mg/kg wet	39.9		96.2	80-120	0.201	20	
Zinc	40.3	1.0	0.22	mg/kg wet	39.9		101	80-120	1.34	20	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	10/13/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9J0111 - EPA 3050B											
Matrix Spike (B9J0111-MS1)		**Source: 0904232-01**			Prepared: 10/01/09		Analyzed: 10/02/09				
Antimony	39.4	0.60	0.0065	mg/kg dry	47.5	<0.60	82.4	75-125			
Arsenic	45.2	0.60	0.12	mg/kg dry	47.5	3.61	87.7	75-125			
Beryllium	4.04	0.30	0.013	mg/kg dry	4.75	0.330	78.1	75-125			
Cadmium	41.0	0.30	0.030	mg/kg dry	47.5	0.583	85.1	75-125			
Chromium	49.2	0.60	0.014	mg/kg dry	47.5	7.80	87.2	75-125			
Copper	49.9	1.2	0.083	mg/kg dry	47.5	5.95	92.5	75-125			
Lead	86.9	1.2	0.040	mg/kg dry	47.5	50.5	76.7	75-125			
Nickel	54.2	0.60	0.017	mg/kg dry	47.5	8.46	96.3	75-125			
Selenium	40.5	1.2	0.13	mg/kg dry	47.5	<1.2	85.3	75-125			
Silver	4.14	0.30	0.011	mg/kg dry	4.75	<0.30	87.2	75-125			
Thallium	40.3	2.4	0.15	mg/kg dry	47.5	<2.4	83.9	75-125			
Zinc	93.9	1.2	0.26	mg/kg dry	47.5	47.8	97.2	75-125			
Matrix Spike Dup (B9J0111-MSD1)		**Source: 0904232-01**			Prepared: 10/01/09		Analyzed: 10/02/09				
Antimony	42.9	0.60	0.0065	mg/kg dry	47.5	<0.60	89.9	75-125	8.63	20	
Arsenic	46.4	0.60	0.12	mg/kg dry	47.5	3.61	90.0	75-125	2.42	20	
Beryllium	4.68	0.30	0.013	mg/kg dry	4.75	0.330	91.5	75-125	14.6	20	
Cadmium	41.8	0.30	0.030	mg/kg dry	47.5	0.583	86.8	75-125	1.94	20	
Chromium	51.7	0.60	0.014	mg/kg dry	47.5	7.80	92.3	75-125	4.87	20	
Copper	51.4	1.2	0.083	mg/kg dry	47.5	5.95	95.6	75-125	2.91	20	
Lead	99.2	1.2	0.040	mg/kg dry	47.5	50.5	103	75-125	13.2	20	
Nickel	50.4	0.60	0.017	mg/kg dry	47.5	8.46	88.2	75-125	7.36	20	
Selenium	43.2	1.2	0.13	mg/kg dry	47.5	<1.2	91.0	75-125	6.47	20	
Silver	4.48	0.30	0.011	mg/kg dry	4.75	<0.30	94.4	75-125	7.93	20	
Thallium	42.0	2.4	0.15	mg/kg dry	47.5	<2.4	87.5	75-125	4.20	20	
Zinc	74.4	1.2	0.26	mg/kg dry	47.5	47.8	56.1	75-125	23.2	20	M2, QR-04

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/13/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9J0512 - EPA 7471A											
Blank (B9J0512-BLK1)					Prepared: 10/05/09		Analyzed: 10/06/09				
Mercury	< 0.10	0.10	0.0018	mg/kg wet							
LCS (B9J0512-BS1)					Prepared: 10/05/09		Analyzed: 10/06/09				
Mercury	0.238	0.10	0.0018	mg/kg wet	0.200		119	80-120			
LCS Dup (B9J0512-BSD1)					Prepared: 10/05/09		Analyzed: 10/06/09				
Mercury	0.226	0.10	0.0018	mg/kg wet	0.200		113	80-120	5.17	20	
Matrix Spike (B9J0512-MS1)		**Source: 0904217-01**			Prepared: 10/05/09		Analyzed: 10/06/09				
Mercury	0.602	0.11	0.0020	mg/kg dry	0.217	0.528	34.0	75-125			M2
Matrix Spike Dup (B9J0512-MSD1)		**Source: 0904217-01**			Prepared: 10/05/09		Analyzed: 10/06/09				
Mercury	0.533	0.11	0.0020	mg/kg dry	0.217	0.528	2.00	75-125	12.3	20	M2

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/13/09

PERCENT SOLIDS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9J0907 - General Preparation											
Duplicate (B9J0907-DUP1)		**Source: 0904256-10**			Prepared & Analyzed: 10/09/09						
% Solids	86.0			%		87.0			1.16	20	
Duplicate (B9J0907-DUP2)		**Source: 0904388-02**			Prepared & Analyzed: 10/09/09						
% Solids	97.0			%		97.0			0.00	20	

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LEGEND Technical Services, Inc.
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88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/13/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9J0204 - EPA 3545 ASE Extraction											
Blank (B9J0204-BLK1)					Prepared & Analyzed: 10/02/09						
1,2,4-Trichlorobenzene	< 0.027	0.33	0.027	mg/kg wet							
1,2-Dichlorobenzene	< 0.025	0.33	0.025	mg/kg wet							
1,2-Diphenylhydrazine as Azobenzene	< 0.020	0.33	0.020	mg/kg wet							
1,3-Dichlorobenzene	< 0.023	0.33	0.023	mg/kg wet							
1,4-Dichlorobenzene	< 0.024	0.33	0.024	mg/kg wet							
2,3,4,6-Tetrachlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2,4,5-Trichlorophenol	< 0.024	0.67	0.024	mg/kg wet							
2,4,6-Trichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dimethylphenol	< 0.090	0.67	0.090	mg/kg wet							
2,4-Dinitrophenol	< 0.058	0.67	0.058	mg/kg wet							
2,4-Dinitrotoluene	< 0.021	0.33	0.021	mg/kg wet							
2,6-Dichlorophenol	< 0.043	0.67	0.043	mg/kg wet							
2,6-Dinitrotoluene	< 0.019	0.33	0.019	mg/kg wet							
2-Chloronaphthalene	< 0.019	0.33	0.019	mg/kg wet							
2-Chlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2-Methylnaphthalene	< 0.028	0.33	0.028	mg/kg wet							
2-Methylphenol	< 0.035	0.67	0.035	mg/kg wet							
2-Nitroaniline	< 0.020	0.33	0.020	mg/kg wet							
2-Nitrophenol	< 0.036	0.67	0.036	mg/kg wet							
3,3´-Dichlorobenzidine	< 0.39	1.6	0.39	mg/kg wet							
3-Nitroaniline	< 0.033	0.33	0.033	mg/kg wet							
4,6-Dinitro-2-methylphenol	< 0.074	0.67	0.074	mg/kg wet							
4-Bromophenyl phenyl ether	< 0.017	0.33	0.017	mg/kg wet							
4-Chloro-3-methylphenol	< 0.040	0.67	0.040	mg/kg wet							
4-Chloroaniline	< 0.11	0.67	0.11	mg/kg wet							
4-Chlorophenyl phenyl ether	< 0.023	0.33	0.023	mg/kg wet							
4-Methylphenol	< 0.027	0.67	0.027	mg/kg wet							
4-Nitroaniline	< 0.023	0.33	0.023	mg/kg wet							
4-Nitrophenol	< 0.099	0.67	0.099	mg/kg wet							
Acenaphthene	< 0.028	0.33	0.028	mg/kg wet							
Acenaphthylene	< 0.023	0.33	0.023	mg/kg wet							
Aniline	< 0.090	0.67	0.090	mg/kg wet							
Anthracene	< 0.025	0.33	0.025	mg/kg wet							
Benzidine	< 0.72	2.5	0.72	mg/kg wet							
Benzo (a) anthracene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (a) pyrene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (b) fluoranthene	< 0.034	0.33	0.034	mg/kg wet							
Benzo (g,h,i) perylene	< 0.030	0.33	0.030	mg/kg wet							

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/13/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9J0204 - EPA 3545 ASE Extraction											
Blank (B9J0204-BLK1)					Prepared & Analyzed: 10/02/09						
Benzo (k) fluoranthene	< 0.031	0.33	0.031	mg/kg wet							
Benzoic acid	< 0.058	0.33	0.058	mg/kg wet							
Benzyl alcohol	< 0.12	0.67	0.12	mg/kg wet							
Bis(2-chloroethoxy)methane	< 0.021	0.33	0.021	mg/kg wet							
Bis(2-chloroethyl)ether	< 0.024	0.33	0.024	mg/kg wet							
Bis(2-chloroisopropyl)ether	< 0.022	0.33	0.022	mg/kg wet							
Bis(2-ethylhexyl)phthalate	< 0.020	0.33	0.020	mg/kg wet							
Butyl benzyl phthalate	< 0.021	0.33	0.021	mg/kg wet							
Carbazole	< 0.022	0.33	0.022	mg/kg wet							
Chrysene	< 0.033	0.33	0.033	mg/kg wet							
Dibenz (a,h) anthracene	< 0.034	0.33	0.034	mg/kg wet							
Dibenzofuran	< 0.019	0.33	0.019	mg/kg wet							
Diethyl phthalate	< 0.015	0.33	0.015	mg/kg wet							
Dimethyl phthalate	< 0.018	0.33	0.018	mg/kg wet							
Di-n-butyl phthalate	< 0.037	0.33	0.037	mg/kg wet							
Di-n-octyl phthalate	< 0.025	0.33	0.025	mg/kg wet							
Fluoranthene	< 0.024	0.33	0.024	mg/kg wet							
Fluorene	< 0.018	0.33	0.018	mg/kg wet							
Hexachlorobenzene	< 0.016	0.33	0.016	mg/kg wet							
Hexachlorobutadiene	< 0.033	0.33	0.033	mg/kg wet							
Hexachlorocyclopentadiene	< 0.041	0.33	0.041	mg/kg wet							
Hexachloroethane	< 0.028	0.33	0.028	mg/kg wet							
Indeno (1,2,3-cd) pyrene	< 0.032	0.33	0.032	mg/kg wet							
Isophorone	< 0.017	0.33	0.017	mg/kg wet							
Naphthalene	< 0.029	0.33	0.029	mg/kg wet							
Nitrobenzene	< 0.030	0.33	0.030	mg/kg wet							
N-Nitrosodimethylamine	< 0.032	0.33	0.032	mg/kg wet							
N-Nitrosodi-n-propylamine	< 0.025	0.33	0.025	mg/kg wet							
N-Nitrosodiphenylamine	< 0.018	0.33	0.018	mg/kg wet							
Pentachlorophenol	< 0.096	0.67	0.096	mg/kg wet							
Phenanthrene	< 0.019	0.33	0.019	mg/kg wet							
Phenol	< 0.057	0.67	0.057	mg/kg wet							
Pyrene	< 0.023	0.33	0.023	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	*5.02*			*mg/kg wet*	*6.67*		*75.3*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*4.08*			*mg/kg wet*	*6.67*		*61.2*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*4.07*			*mg/kg wet*	*6.67*		*61.1*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*3.86*			*mg/kg wet*	*6.67*		*57.9*	*49.1-86.9*			
Surrogate: Phenol-d6	*4.23*			*mg/kg wet*	*6.67*		*63.4*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*4.40*			*mg/kg wet*	*6.67*		*66.0*	*43.6-112*			

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	10/13/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9J0204 - EPA 3545 ASE Extraction											
LCS (B9J0204-BS1)					Prepared & Analyzed: 10/02/09						
1,2,4-Trichlorobenzene	5.05	0.33	0.027	mg/kg wet	6.67		75.8	50.7-82.1			
1,4-Dichlorobenzene	4.25	0.33	0.024	mg/kg wet	6.67		63.7	44-77			
2,4-Dinitrotoluene	4.66	0.33	0.021	mg/kg wet	6.67		69.9	56.7-81.7			
2-Chlorophenol	4.16	0.67	0.038	mg/kg wet	6.67		62.4	52.3-88.2			
4-Chloro-3-methylphenol	4.18	0.67	0.040	mg/kg wet	6.67		62.8	53.4-87			
4-Nitrophenol	4.02	0.67	0.099	mg/kg wet	6.67		60.3	55.7-87.1			
Anthracene	5.05	0.33	0.025	mg/kg wet	6.67		75.8	65.3-92			
Benzo (a) anthracene	5.30	0.33	0.027	mg/kg wet	6.67		79.5	69-95.3			
Benzo (a) pyrene	5.22	0.33	0.027	mg/kg wet	6.67		78.2	68.5-98.2			
Chrysene	5.29	0.33	0.033	mg/kg wet	6.67		79.3	68.6-94.2			
Fluoranthene	5.09	0.33	0.024	mg/kg wet	6.67		76.4	64.3-94.6			
Fluorene	4.94	0.33	0.018	mg/kg wet	6.67		74.1	61.9-89.4			
N-Nitrosodi-n-propylamine	4.42	0.33	0.025	mg/kg wet	6.67		66.2	55.5-91.1			
Pentachlorophenol	4.06	0.67	0.096	mg/kg wet	6.67		60.9	54.7-74.6			
Phenanthrene	5.02	0.33	0.019	mg/kg wet	6.67		75.3	64.3-90.9			
Phenol	3.96	0.67	0.057	mg/kg wet	6.67		59.4	49.7-85.4			
Surrogate: 2,4,6-Tribromophenol	*5.23*			*mg/kg wet*	*6.67*		*78.4*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*4.62*			*mg/kg wet*	*6.67*		*69.3*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*4.51*			*mg/kg wet*	*6.67*		*67.6*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.42*			*mg/kg wet*	*6.67*		*66.3*	*49.1-86.9*			
Surrogate: Phenol-d6	*4.78*			*mg/kg wet*	*6.67*		*71.6*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*4.91*			*mg/kg wet*	*6.67*		*73.6*	*43.6-112*			
Matrix Spike (B9J0204-MS1)		**Source: 0904265-02**			Prepared & Analyzed: 10/02/09						
1,2,4-Trichlorobenzene	4.78	0.33	0.027	mg/kg dry	6.75	<0.33	70.7	51-77.5			
1,4-Dichlorobenzene	4.06	0.33	0.024	mg/kg dry	6.75	<0.33	60.1	41.7-73.4			
2,4-Dinitrotoluene	4.31	0.33	0.021	mg/kg dry	6.75	<0.33	63.8	50-84.8			
2-Chlorophenol	4.02	0.68	0.038	mg/kg dry	6.75	<0.68	59.5	47.8-90.8			
4-Chloro-3-methylphenol	3.97	0.68	0.040	mg/kg dry	6.75	<0.68	58.8	48.4-95.1			
4-Nitrophenol	3.72	0.68	0.10	mg/kg dry	6.75	<0.68	55.0	44-105			
Anthracene	4.78	0.33	0.025	mg/kg dry	6.75	<0.33	70.8	60.2-97.3			
Benzo (a) anthracene	4.98	0.33	0.027	mg/kg dry	6.75	<0.33	73.7	59.8-102			
Benzo (a) pyrene	4.94	0.33	0.027	mg/kg dry	6.75	<0.33	73.2	57.2-105			
Chrysene	4.97	0.33	0.033	mg/kg dry	6.75	<0.33	73.6	59.2-102			
Fluoranthene	4.81	0.33	0.024	mg/kg dry	6.75	<0.33	71.3	50.4-108			
Fluorene	4.65	0.33	0.018	mg/kg dry	6.75	<0.33	68.9	57.8-94.4			
N-Nitrosodi-n-propylamine	4.14	0.33	0.025	mg/kg dry	6.75	<0.33	61.4	46.2-96.2			
Pentachlorophenol	3.74	0.68	0.097	mg/kg dry	6.75	<0.68	55.4	53.6-80.4			
Phenanthrene	4.71	0.33	0.019	mg/kg dry	6.75	<0.33	69.7	58.4-97.5			
Phenol	3.79	0.68	0.058	mg/kg dry	6.75	<0.68	56.1	44-88.5			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/13/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9J0204 - EPA 3545 ASE Extraction											
Matrix Spike (B9J0204-MS1)		**Source: 0904265-02**			Prepared & Analyzed: 10/02/09						
Surrogate: 2,4,6-Tribromophenol	*5.14*			*mg/kg dry*	*6.75*		*76.2*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*4.35*			*mg/kg dry*	*6.75*		*64.5*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*4.39*			*mg/kg dry*	*6.75*		*65.0*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*4.16*			*mg/kg dry*	*6.75*		*61.6*	*49.1-86.9*			
Surrogate: Phenol-d6	*4.55*			*mg/kg dry*	*6.75*		*67.4*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*4.60*			*mg/kg dry*	*6.75*		*68.1*	*43.6-112*			
Matrix Spike Dup (B9J0204-MSD1)		**Source: 0904265-02**			Prepared & Analyzed: 10/02/09						
1,2,4-Trichlorobenzene	4.50	0.33	0.027	mg/kg dry	6.77	<0.33	66.5	51-77.5	5.98	15.7	
1,4-Dichlorobenzene	3.75	0.33	0.024	mg/kg dry	6.77	<0.33	55.4	41.7-73.4	7.84	14.7	
2,4-Dinitrotoluene	4.40	0.33	0.021	mg/kg dry	6.77	<0.33	65.0	50-84.8	2.06	20.5	
2-Chlorophenol	3.79	0.68	0.038	mg/kg dry	6.77	<0.68	56.1	47.8-90.8	5.74	19.8	
4-Chloro-3-methylphenol	3.86	0.68	0.040	mg/kg dry	6.77	<0.68	57.0	48.4-95.1	2.81	18.7	
4-Nitrophenol	3.76	0.68	0.10	mg/kg dry	6.77	<0.68	55.6	44-105	1.27	30.9	
Anthracene	4.75	0.33	0.025	mg/kg dry	6.77	<0.33	70.2	60.2-97.3	0.668	15.1	
Benzo (a) anthracene	5.11	0.33	0.027	mg/kg dry	6.77	<0.33	75.5	59.8-102	2.54	19.6	
Benzo (a) pyrene	5.06	0.33	0.027	mg/kg dry	6.77	<0.33	74.8	57.2-105	2.36	19.4	
Chrysene	5.13	0.33	0.033	mg/kg dry	6.77	<0.33	75.8	59.2-102	3.20	19.6	
Fluoranthene	4.87	0.33	0.024	mg/kg dry	6.77	<0.33	71.9	50.4-108	1.10	21	
Fluorene	4.51	0.33	0.018	mg/kg dry	6.77	<0.33	66.6	57.8-94.4	3.11	15.8	
N-Nitrosodi-n-propylamine	3.93	0.33	0.025	mg/kg dry	6.77	<0.33	58.1	46.2-96.2	5.35	17.1	
Pentachlorophenol	3.74	0.68	0.097	mg/kg dry	6.77	<0.68	55.3	53.6-80.4	0.0458	22.4	
Phenanthrene	4.65	0.33	0.019	mg/kg dry	6.77	<0.33	68.7	58.4-97.5	1.37	14.3	
Phenol	3.60	0.68	0.058	mg/kg dry	6.77	<0.68	53.2	44-88.5	5.21	21.5	
Surrogate: 2,4,6-Tribromophenol	*5.08*			*mg/kg dry*	*6.77*		*75.0*	*47.2-108*			
Surrogate: 2-Fluorobiphenyl	*4.20*			*mg/kg dry*	*6.77*		*62.1*	*53.2-85.1*			
Surrogate: 2-Fluorophenol	*4.11*			*mg/kg dry*	*6.77*		*60.7*	*48.5-90.1*			
Surrogate: Nitrobenzene-d5	*3.94*			*mg/kg dry*	*6.77*		*58.2*	*49.1-86.9*			
Surrogate: Phenol-d6	*4.34*			*mg/kg dry*	*6.77*		*64.2*	*47.6-99.6*			
Surrogate: Terphenyl-d14	*4.70*			*mg/kg dry*	*6.77*		*69.5*	*43.6-112*			

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4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904256
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/13/09

Notes and Definitions

S-BN	Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.
QR-04	The RPD value for the MS/MSD was outside of QC acceptance limits. Data was accepted based on LCS and/or LCSD recovery and/or RPD values.
M2	Matrix spike recovery was low, the associated blank spike recovery was acceptable.
J	Parameter was present between the MDL and RL and should be considered an estimated value
<	Less than value listed
dry	Sample results reported on a dry weight basis
NA	Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL	Method Detection Limit
RL	Reporting Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
MS	Matrix Spike = Laboratory Fortified Matrix (LFM)

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Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

0904256

Project Number: 23/19-0605.07 SLRI 300

Project Name: UMA-SS1/RI Investigation

Sample Origination State: MN (use two letter postal state abbreviation)

COC Number: № 29033

COC 1 of 2

Project Manager: JSA/JME

Project QC Contact: KJN/AAN

Sampled by: KCB/SKN

Laboratory: Legend

Number of Containers/Preservative

	Location	Start Depth	Stop Depth	Depth Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Water: VOCs (HCl) #1	Water: SVOCs (unpreserved) #2	Water: Dissolved Metals (HNO_3)	Water: Total Metals (HNO_3)	Water: General (unpreserved) #3	Water: Diesel Range Organics (HCl)	Water: Nutrients (H_2SO_4) #4	Soil: VOCs (tared MeOH) #1	Soil: GRO, BTEX (tared MeOH) #1	Soil: DRO (tared unpreserved)	Soil: Metals (unpreserved)	Soil: SVOCs (unpreserved) #2	Soil: % Solids (plastic vial, unpres.)	Total Number Of Containers	
01	1. SOC5-SS2A	0.5	0.5	ft	09/25/2009	915		X	X													X	X		2	Analyze Mercury
02	2. SOC5-SS2B	0.5	0.5	ft	09/25/2009	915		X	X													X	X		2	Analyze Mercury
03	3. SOC5-SS1A	0.5	0.5	ft		1000																X	X		2	Analyze SVOC
04	4. SOC5-SS1B	0.5	0.5	ft		1015																X	X		2	
05	5. SOC5-SS1C	0.5	0.5	ft		1030																X	X		2	
06	6. SOC5-SS1 ~~SS2~~	1.5	2	ft		1020																X	X		2	
07	7. SOC5-SS19	0.5	0.5	ft		1100																X	X		2	
08	8. SOC5-SS21	0.5	0.5	ft		1100																X	X		2	
09	9. SOC5-SS23	0.5	0.5	ft		1145																X	X		2	
10	10. SOC5-SS27	0.5	0.5	ft		1150																X	X		2	

Common Parameter/Container - Preservation Key

#1 - Volatile Organics = BTEX, GRO, TPH, 8260 Full List
#2 - Semivolatile Organics = PAHs, PCP, Dioxins, 8270 Full List, Herbicide/Pesticide/PCBs
#3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
#4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
Justin Bt	Y N	9/28/09	1045			
Relinquished By:	On Ice? Y N	Date	Time	Received by: BPhan	Date 9/28/09	Time 10:20

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other: _____ Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

PR. custody seals 2.8°c

H:\LOGS\FORMS\Chain Of Custody Form 2009 RLG Rev 09/01/09

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Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

0904256

Project Number: 23/19-0605-07 SIRI 300

Project Name: UNA-SSI | R1

Sample Origination State MN (use two letter postal state abbreviation)

COC Number: № 29032

COC 2 of 2

Project Manager: JSA/JME

Project QC Contact: MAN | KJN

Sampled by: SKN/KLB

Laboratory: legend

	Location	Start Depth	Stop Depth	Depth Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Water: VOCs (HCl) #1	Water: SVOCs (unpreserved) #2	Water: Dissolved Metals (HNO3)	Water: Total Metals (HNO3)	Water: General (unpreserved) #3	Water: Diesel Range Organics (HCl)	Water: Nutrients (H2SO4) #4	Soil: VOCs (tared MeOH) #1	Soil: GRO, BTEX (tared MeOH) #1	Soil: DRO (tared unpreserved)	Soil: Metals (unpreserved)	Soil: SVOCs (unpreserved) #2	Soil: % Solids (plastic vial, unpres.)	Total Number Of Containers	
11	1. SOC5-SS25	0.5	0.5	ft	09/25/2009	1215		X	X														X	X	2	Analyze SVOC
12	2. SOC5-SS43	0.5	0.5	ft	↓	1345		X	X														X	X	2	↓
13	3. SOC5-SS44	0.5	0.5	ft	↓	1350		X	X														X	X	2	↓
14	4. SOC5-SS45	0.5	0.5	ft	↓	1410		X	X														X	X	2	↓
15	5. SOC5-SS5	0.5	0.5	ft	↓	1230		X	X													X		X	2	Analyze Mercury
16	6. SOC5-SS39	0.5	0.5	ft	↓	1500		X	X													X	X	X	3	Analyze PPL metals + SVOCs
17	7. M-1	—	—	—	↓	—		X	X														X	X	2	Analyze SVOCs
	8.																									
	9.																									
	10.																									

Common Parameter/Container - Preservation Key

#1 - Volatile Organics = BTEX, GRO, TPH, 8260 Full List
#2 - Semivolatile Organics = PAHs, PCP, Dioxins, 8270 Full List, Herbicide/Pesticide/PCBs
#3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
#4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
Kristen Bt	(Y) N	9/28/09	845			
Relinquished By:	On Ice? Y N	Date	Time	Received by: BPham	Date 9/28/09	Time 10:20

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other:

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit [1]	Reporting Limit	Test Unit	MDH Health Risk Limits [2]	Minnesota Tier SLV [4]	Minnesota SRV [5]	Minnesota Tier II Industrial SRV [6]
Metals										
Antimony	7440-36-0	Soil/Solid	6010B	0.0055	0.50	mg/kg	--	2.7	12	100
Arsenic	7440-38-2	Soil/Solid	6010B	0.10	0.50	mg/kg	--	15.1	9	20
Beryllium	7440-41-7	Soil/Solid	6010B	0.011	0.25	mg/kg	--	1.4	55	230
Cadmium	7440-43-9	Soil/Solid	6010B	0.025	0.25	mg/kg	--	4.4	25	200
Chromium	7440-47-3	Soil/Solid	6010B	0.012	0.50	mg/kg	--	1000000 (8)	44000 (8)	100000 (8)
Copper	7440-50-8	Soil/Solid	6010B	0.070	1.0	mg/kg	--	400	100	9000
Lead	7439-92-1	Soil/Solid	6010B	0.034	1.0	mg/kg	--	525	300	700
Nickel	7440-02-0	Soil/Solid	6010B	0.014	0.25	mg/kg	--	88	560	2500
Selenium	7782-49-2	Soil/Solid	6010B	0.11	1.0	mg/kg	--	1.5	160	1300
Silver	7440-22-4	Soil/Solid	6010B	0.0090	0.25	mg/kg	--	3.9	160	1300
Thallium	7440-28-0	Soil/Solid	6010B	0.13	2.0	mg/kg	--	--	3	21
Zinc	7440-66-6	Soil/Solid	6010B	0.22	1.0	mg/kg	--	1500	8700	75000
Metals										
Antimony	7440-36-0	Water/Liquid	6020	0.046	0.500	ug/L	6	--	--	--
Arsenic	7440-38-2	Water/Liquid	6010B	2	10.000	ug/L	--	--	--	--
Beryllium	7440-41-7	Water/Liquid	6020	0.027	0.5000	ug/L	0.08	--	--	--
Cadmium	7440-43-9	Water/Liquid	6010B	0.099	1.0000	ug/L	4	--	--	--
Chromium	7440-47-3	Water/Liquid	6010B	0.24	10.000	ug/L	100 (5)	--	--	--
Copper	7440-50-8	Water/Liquid	6010B	1.4	20.000	ug/L	--	--	--	--
Lead	7439-92-1	Water/Liquid	6010B	0.68	3.0000	ug/L	--	--	--	--
Nickel	7440-02-0	Water/Liquid	6010B	0.28	5.0000	ug/L	100	--	--	--
Selenium	7782-49-2	Water/Liquid	6010B	2.2	20.000	ug/L	30	--	--	--
Silver	7440-22-4	Water/Liquid	6010B	0.18	5.0000	ug/L	30	--	--	--
Thallium	7440-28-0	Water/Liquid	6020	0.0081	0.500	ug/L	0.5	--	--	--
Zinc	7440-66-6	Water/Liquid	6010B	4.4	20.000	ug/L	2000	--	--	--
Mercury										
Mercury	7439-97-6	Soil/Solid	7471A	0.0031	0.10	mg/kg	--	1.5 C	0.5	1.5
Mercury	7439-97-6	Water/Liquid	7470A	0.000031	0.00020	mg/L	--	--	--	--
Nitrate-Nitrite Nitrogen as N (Braun)										
N-N Nitrogen as N	NA	Water/Liquid	SM4500-NO3-F	0.007	0.02	mg/L	10 (3)	--	--	--
Total Kjeldahl Nitrogen (Braun)										
TKN as N	NA	Water/Liquid	SM4500-NH3-C	0.17	0.5	mg/L	--	--	--	--
Perchlorate (TA)										
Perchlorate	NA	Water/Liquid	314	0.36	4	ug/L	--	--	--	--
Nitrocellulose (TA)										
Nitrocellulose	NA	Soil/Solid	353.2Mod	0.78	0.5	mg/kg	--	--	--	--
Nitrocellulose (TA)										
Nitrocellulose	NA	Water/Liquid	353.2Mod	0.124	0.5	mg/L	--	--	--	--
Organochlorine Pesticides										
4,4'-DDD	72-54-8	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	56	125
4,4'-DDE	72-55-9	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	40	80
4,4'-DDT	50-29-3	Soil/Solid	8081A	0.0020	0.040	mg/kg	--	--	15	88
a-Chlordane	5103-71-9	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	--	--
Aldrin	309-00-2	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	1	2
alpha-BHC	319-84-6	Soil/Solid	8081A	0.0011	0.040	mg/kg	--	--	2	3.5
beta-BHC	319-85-7	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	7	15
delta-BHC	319-86-8	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	--	--
Dieldrin	60-57-1	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	0.8	2
Endosulfan I	959-98-8	Soil/Solid	8081A	0.0013	0.040	mg/kg	--	--	--	--
Endosulfan II	891-86-1	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
Endosulfan sulfate	1031-07-8	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
Endrin	72-20-8	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	8	56
Endrin aldehyde	7421-93-4	Soil/Solid	8081A	0.0041	0.040	mg/kg	--	--	--	--
Endrin ketone	53494-70-5	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
gamma-BHC (Lindane)	58-89-9	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	9	15
gamma-Chlordane	5566-34-7	Soil/Solid	8081A	0.0017	0.040	mg/kg	--	--	--	--
Heptachlor	76-44-8	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	2	3.5
Heptachlor epoxide	1024-57-3	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	0.4	3
Methoxychlor	72-43-5	Soil/Solid	8081A	0.0019	0.040	mg/kg	--	--	11	50
Toxaphene	8001-35-2	Soil/Solid	8081A	0.015	0.080	mg/kg	--	--	13	28
Organochlorine Pesticides										
4,4'-DDD	72-54-8	Water/Liquid	8081A	0.026	0.40	ug/L	1	--	--	--
4,4'-DDE	72-55-9	Water/Liquid	8081A	0.037	0.40	ug/L	1	--	--	--
4,4'-DDT	50-29-3	Water/Liquid	8081A	0.031	0.40	ug/L	1	--	--	--
a-Chlordane	5103-71-9	Water/Liquid	8081A	0.030	0.40	ug/L	--	--	--	--
Aldrin	309-00-2	Water/Liquid	8081A	0.036	0.40	ug/L	--	--	--	--
alpha-BHC	319-84-6	Water/Liquid	8081A	0.026	0.40	ug/L	--	--	--	--
beta-BHC	319-85-7	Water/Liquid	8081A	0.026	0.40	ug/L	--	--	--	--
delta-BHC	319-86-8	Water/Liquid	8081A	0.023	0.40	ug/L	--	--	--	--
Dieldrin	60-57-1	Water/Liquid	8081A	0.031	0.40	ug/L	0.006 (4)	--	--	--
Endosulfan I	959-98-8	Water/Liquid	8081A	0.032	0.40	ug/L	--	--	--	--
Endosulfan II	891-86-1	Water/Liquid	8081A	0.035	0.40	ug/L	--	--	--	--

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Units	MDH Health Risk Limits [1]	Minnesota Tier SLV [2]	Minnesota SRV [3]	Minnesota Tier II Industrial SRV [4]
Endosulfan sulfate	1031-07-8	Water/Liquid	8081A	0.034	0.40	ug/L	--	--	--	--
Endrin	72-20-8	Water/Liquid	8081A	0.029	0.40	ug/L	--	--	--	--
Endrin aldehyde	7421-93-4	Water/Liquid	8081A	0.044	0.40	ug/L	--	--	--	--
Endrin ketone	53494-70-5	Water/Liquid	8081A	0.031	0.40	ug/L	--	--	--	--
gamma-BHC (Lindane)	58-89-9	Water/Liquid	8081A	0.024	0.40	ug/L	--	--	--	--
gamma-Chlordane	5566-34-7	Water/Liquid	8081A	0.030	0.40	ug/L	--	--	--	--
Heptachlor	76-44-8	Water/Liquid	8081A	0.028	0.40	ug/L	0.08	--	--	--
Heptachlor epoxide	1024-57-3	Water/Liquid	8081A	0.030	0.40	ug/L	0.04	--	--	--
Methoxychlor	72-43-5	Water/Liquid	8081A	0.032	0.40	ug/L	--	--	--	--
Toxaphene	8001-35-2	Water/Liquid	8081A	0.069	1.00	ug/L	0.3	--	--	--
MDA List 1 Pesticides (Braun)										
EPTC	759-94-4	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Propachlor	1918-16-7	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Ethalfluralin	55283-68-6	Soil/Solid	8270C	0.014	0.04	mg/kg	--	--	--	--
Deisopropylatrazine	1007-28-9	Soil/Solid	8270C	0.0080	0.04	mg/kg	--	--	--	--
Trifluralin	1582-09-8	Soil/Solid	8270C	0.014	0.04	mg/kg	--	--	--	--
Desethylatrazine	6190-65-4	Soil/Solid	8270C	0.011	0.04	mg/kg	--	--	--	--
Phorate	298-02-2	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Prometon	1610-18-0	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Simazine	122-34-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Atrazine	1912-24-9	Soil/Solid	8270C	0.0100	0.04	mg/kg	--	--	--	--
Propazine	139-40-2	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Terbufos	13071-79-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	0.6	3.5
Fonofos	944-22-9	Soil/Solid	8270C	0.0040	0.04	mg/kg	--	--	--	--
Triallate	2303-17-5	Soil/Solid	8270C	0.0050	0.04	mg/kg	--	--	--	--
Metribuzin	21087-64-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Dimethenamid	87674-68-8	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Acetochlor	34256-82-1	Soil/Solid	8270C	0.010	0.04	mg/kg	--	--	--	--
Alachlor	15972-60-8	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Cyanazine	21725-46-2	Soil/Solid	8270C	0.0080	0.04	mg/kg	--	--	--	--
Metolachlor	51218-45-2	Soil/Solid	8270C	0.0030	0.04	mg/kg	--	--	435	3300
Chlorpyrifos	2921-88-2	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Pendimethalin	40487-42-1	Soil/Solid	8270C	0.016	0.04	mg/kg	--	--	--	--
MDA List 1 Pesticides (Braun)										
EPTC	759-94-4	Water/Liquid	8270C	0.22	0.50	ug/L	200	--	--	--
Propachlor	1918-16-7	Water/Liquid	8270C	0.14	0.50	ug/L	--	--	--	--
Ethalfluralin	55283-68-6	Water/Liquid	8270C	0.47	0.50	ug/L	300 (1)	--	--	--
Deisopropylatrazine	1007-28-9	Water/Liquid	8270C	0.26	0.50	ug/L	--	--	--	--
Trifluralin	1582-09-8	Water/Liquid	8270C	0.21	0.50	ug/L	5 (1)	--	--	--
Desethylatrazine	6190-65-4	Water/Liquid	8270C	0.29	0.50	ug/L	--	--	--	--
Phorate	298-02-2	Water/Liquid	8270C	0.59	1.00	ug/L	1 (1)	--	--	--
Prometon	1610-18-0	Water/Liquid	8270C	0.29	0.50	ug/L	100	--	--	--
Simazine	122-34-9	Water/Liquid	8270C	0.32	0.50	ug/L	4 (3)	--	--	--
Atrazine	1912-24-9	Water/Liquid	8270C	0.24	0.50	ug/L	3 (3)	--	--	--
Propazine	139-40-2	Water/Liquid	8270C	0.21	0.50	ug/L	10 (1)	--	--	--
Terbufos	13071-79-9	Water/Liquid	8270C	0.54	1.00	ug/L	0.2 (1)	--	--	--
Fonofos	944-22-9	Water/Liquid	8270C	0.30	0.50	ug/L	10 (1)	--	--	--
Triallate	2303-17-5	Water/Liquid	8270C	0.34	0.50	ug/L	9 (1)	--	--	--
Metribuzin	21087-64-9	Water/Liquid	8270C	0.35	0.50	ug/L	200	--	--	--
Dimethenamid	87674-68-8	Water/Liquid	8270C	0.24	0.50	ug/L	40 (1)	--	--	--
Acetochlor	34256-82-1	Water/Liquid	8270C	0.25	0.50	ug/L	9 (4)	--	--	--
Alachlor	15972-60-8	Water/Liquid	8270C	0.19	0.50	ug/L	5 (4)	--	--	--
Cyanazine	21725-46-2	Water/Liquid	8270C	0.48	0.50	ug/L	1	--	--	--
Metolachlor	51218-45-2	Water/Liquid	8270C	0.28	0.50	ug/L	300 (4)	--	--	--
Chlorpyrifos	2921-88-2	Water/Liquid	8270C	0.34	0.50	ug/L	20 (1)	--	--	--
Pendimethalin	40487-42-1	Water/Liquid	8270C	0.25	0.50	ug/L	--	--	--	--
MDA List 2 Pesticides (Braun)										
Dicamba	1918-00-9	Soil/Solid	8270C	0.008	0.50	mg/kg	--	--	--	--
MCPA	94-74-6	Soil/Solid	8270C	0.014	0.50	mg/kg	--	--	16	110
2,4-D	94-75-7	Soil/Solid	8270C	0.012	0.50	mg/kg	--	--	285	2200
Trichlopyr	55336-06-3	Soil/Solid	8270C	0.008	0.50	mg/kg	--	--	--	--
Pentachlorophenol	87-86-5	Soil/Solid	8270C	0.007	0.50	mg/kg	--	--	80	120
2,4,5-T.P.	93-72-1	Soil/Solid	8270C	0.007	0.50	mg/kg	--	--	--	--
2,4,5-T	93-76-5	Soil/Solid	8270C	0.009	0.50	mg/kg	--	--	290	2150
Dinoseb	88-85-7	Soil/Solid	8270C	0.005	0.50	mg/kg	--	--	--	--
2,4-D.B.	94-82-6	Soil/Solid	8270C	0.011	0.50	mg/kg	--	--	226	1750
Bentazone	25057-89-0	Soil/Solid	8270C	0.009	0.50	mg/kg	--	--	--	--
Picloram	1918-02-1	Soil/Solid	8270C	0.011	0.50	mg/kg	--	--	2000	15000
MDA List 2 Pesticides (Braun)										
Dicamba	1918-00-9	Water/Liquid	8270C	0.38	0.50	ug/L	200	--	--	--

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Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA, unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [1]	Minnesota Tier SLV [2]	Minnesota SRV [3]	Minnesota Tier II Industrial SRV [4]
MCPA	94-74-6	Water/Liquid	8270C	0.29	0.50	ug/L	--	--	--	--
2,4-D	94-75-7	Water/Liquid	8270C	0.26	0.50	ug/L	70	--	--	--
Trichlopyr	55336-06-3	Water/Liquid	8270C	0.41	0.50	ug/L	300 (1)	--	--	--
Pentachlorophenol	87-86-5	Water/Liquid	8270C	0.39	0.50	ug/L	1 (3)	--	--	--
2,4,5-T.P.	93-72-1	Water/Liquid	8270C	0.28	0.50	ug/L	50 (3)	--	--	--
2,4,5-T	93-76-5	Water/Liquid	8270C	0.31	0.50	ug/L	--	--	--	--
Dinoseb	88-85-7	Water/Liquid	8270C	0.34	0.50	ug/L	7 (1)	--	--	--
2,4-D.B.	94-82-6	Water/Liquid	8270C	0.15	0.50	ug/L	60 (1)	--	--	--
Bentazone	25057-89-0	Water/Liquid	8270C	0.22	0.50	ug/L	200 (1)	--	--	--
Picloram	1918-02-1	Water/Liquid	8270C	0.25	0.50	ug/L	500	--	--	--
PCBs										
Aroclor 1016	12674-11-2	Soil/Solid	8082	0.017	0.20	mg/kg	--	--	--	--
Aroclor 1221	11104-28-2	Soil/Solid	8082	0.039	0.20	mg/kg	--	--	--	--
Aroclor 1232	11141-16-5	Soil/Solid	8082	0.010	0.20	mg/kg	--	--	--	--
Aroclor 1242	53469-21-9	Soil/Solid	8082	0.016	0.20	mg/kg	--	--	--	--
Aroclor 1248	12672-29-6	Soil/Solid	8082	0.0078	0.20	mg/kg	--	--	--	--
Aroclor 1254	11097-69-1	Soil/Solid	8082	0.0071	0.20	mg/kg	--	--	--	--
Aroclor 1260	11096-82-5	Soil/Solid	8082	0.015	0.20	mg/kg	--	--	--	--
PCBs										
Aroclor 1016	12674-11-2	Water/Liquid	8082	0.41	2.0	ug/L	--	--	--	--
Aroclor 1221	11104-28-2	Water/Liquid	8082	0.36	2.0	ug/L	--	--	--	--
Aroclor 1232	11141-16-5	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1242	53469-21-9	Water/Liquid	8082	0.58	2.0	ug/L	--	--	--	--
Aroclor 1248	12672-29-6	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1254	11097-69-1	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1260	11096-82-5	Water/Liquid	8082	0.32	2.0	ug/L	--	--	--	--
VOCs - Soil/Solid										
1,1,1,2-Tetrachloroethane	630-20-6	Soil/Solid	8260B	0.019	0.25	mg/kg	--	1.4	31	51
1,1,1-Trichloroethane	71-55-6	Soil/Solid	8260B	0.0098	0.25	mg/kg	--	3.5	140	472
1,1,2,2-Tetrachloroethane	79-34-5	Soil/Solid	8260B	0.012	0.25	mg/kg	--	0.005	3.5	6.5
1,1,2-Trichloroethane	79-00-5	Soil/Solid	8260B	0.022	0.25	mg/kg	--	0.010	9	14
1,1,2-Trichlorotrifluoroethane	76-13-1	Soil/Solid	8260B	0.052	0.25	mg/kg	--	2580	3745	5430
1,1-Dichloroethane	75-34-3	Soil/Solid	8260B	0.013	0.25	mg/kg	--	0.18	34	55
1,1-Dichloroethene	75-35-4	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.025	20	60
1,1-Dichloropropene	563-58-6	Soil/Solid	8260B	0.021	0.25	mg/kg	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	Soil/Solid	8260B	0.063	0.50	mg/kg	--	--	--	--
1,2,3-Trichloropropane	96-18-4	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.35	--	--
1,2,4-Trichlorobenzene	120-82-1	Soil/Solid	8260B	0.052	0.50	mg/kg	--	0.31	200	985
1,2,4-Trimethylbenzene	95-63-6	Soil/Solid	8260B	0.013	0.25	mg/kg	--	--	8	25
1,2-Dibromo-3-chloropropane	96-12-8	Soil/Solid	8260B	0.079	0.50	mg/kg	--	0.001	--	--
1,2-Dibromoethane (EDB)	106-93-4	Soil/Solid	8260B	0.0056	0.25	mg/kg	--	0.00001	0.3	0.5
1,2-Dichlorobenzene	95-50-1	Soil/Solid	8260B	0.0055	0.25	mg/kg	--	8.1	26	75
1,2-Dichloroethane	107-06-2	Soil/Solid	8260B	0.030	0.25	mg/kg	--	0.010	4	6
1,2-Dichloropropane	78-87-5	Soil/Solid	8260B	0.018	0.25	mg/kg	--	0.011	4	6
1,3,5-Trimethylbenzene	108-67-8	Soil/Solid	8260B	0.0077	0.25	mg/kg	--	--	3	10
1,3-Dichlorobenzene	541-73-1	Soil/Solid	8260B	0.015	0.25	mg/kg	--	4.2	26	200
1,3-Dichloropropane	142-28-9	Soil/Solid	8260B	0.017	0.25	mg/kg	--	--	--	--
1,4-Dichlorobenzene	106-46-7	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.13	30	50
2,2-Dichloropropane	594-20-7	Soil/Solid	8260B	0.034	0.50	mg/kg	--	--	--	--
2-Butanone	78-93-3	Soil/Solid	8260B	0.069	2.0	mg/kg	--	--	5500	19000
2-Chlorotoluene	95-49-8	Soil/Solid	8260B	0.015	0.25	mg/kg	--	--	436	436
4-Chlorotoluene	106-43-4	Soil/Solid	8260B	0.015	0.25	mg/kg	--	--	--	--
Acetone	67-64-1	Soil/Solid	8260B	0.16	2.0	mg/kg	--	0.7	340	1000
Allyl chloride	107-05-1	Soil/Solid	8260B	0.016	0.50	mg/kg	--	0.032	--	--
Benzene	71-43-2	Soil/Solid	8260B	0.0070	0.25	mg/kg	--	0.034	6	10
Bromobenzene	108-86-1	Soil/Solid	8260B	0.017	0.25	mg/kg	--	--	--	--
Bromochloromethane	74-97-5	Soil/Solid	8260B	0.021	0.25	mg/kg	--	0.15	--	--
Bromodichloromethane	75-27-4	Soil/Solid	8260B	0.020	0.25	mg/kg	--	0.013	10	17
Bromoform	75-25-2	Soil/Solid	8260B	0.015	0.50	mg/kg	--	0.14	370	650
Bromomethane	74-83-9	Soil/Solid	8260B	0.012	0.50	mg/kg	--	0.5	0.7	2
Carbon tetrachloride	56-23-5	Soil/Solid	8260B	0.018	0.25	mg/kg	--	0.023	0.3	0.9
Chlorobenzene	108-90-7	Soil/Solid	8260B	0.011	0.25	mg/kg	--	1.1	11	32
Chloroethane	75-00-3	Soil/Solid	8260B	0.045	0.25	mg/kg	--	--	1000	3000
Chloroform	67-66-3	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.17	2.5	4
Chloromethane	74-87-3	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.006	8	23
cis-1,2-Dichloroethene	156-59-2	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.14	8	22
cis-1,3-Dichloropropene	10061-01-5	Soil/Solid	8260B	0.0098	0.25	mg/kg	--	0.005 M	--	--
Dibromochloromethane	124-48-1	Soil/Solid	8260B	0.014	0.25	mg/kg	--	0.03	12	20
Dibromomethane	74-95-3	Soil/Solid	8260B	0.021	0.25	mg/kg	--	--	260	1860
Dichlorodifluoromethane	75-71-8	Soil/Solid	8260B	0.035	0.50	mg/kg	--	38	16	50
Dichlorofluoromethane	75-43-4	Soil/Solid	8260B	0.014	0.25	mg/kg	--	--	--	--
Ethyl ether	60-29-7	Soil/Solid	8260B	0.017	0.50	mg/kg	--	1.2	--	--
Ethylbenzene	100-41-4	Soil/Solid	8260B	0.011	0.25	mg/kg	--	4.7	200	200
Hexachlorobutadiene	87-68-3	Soil/Solid	8260B	0.11	1.0	mg/kg	--	25	6	37
Isopropylbenzene	98-82-8	Soil/Solid	8260B	0.019	0.25	mg/kg	--	18	30	87

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [1]	Minnesota Tier SLV [4]	Minnesota SRV [5]	Minnesota Tier II Industrial SRV [5]
m,p-Xylene	108-38-3/ 106-42-3	Soil/Solid	8260B	0.024	0.50	mg/kg	--	45 M	45 M	130 M
Methyl isobutyl ketone	108-10-1	Soil/Solid	8260B	0.031	0.50	mg/kg	--	0.42	1700	9000
Methyl tert-butyl ether	1634-04-4	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.027	--	--
Methylene chloride	75-09-2	Soil/Solid	8260B	0.043	1.0	mg/kg	--	0.068	97	158
Naphthalene	91-20-3	Soil/Solid	8260B	0.060	0.50	mg/kg	--	7.5	10	28
n-Butylbenzene	104-51-8	Soil/Solid	8260B	0.012	0.25	mg/kg	--	--	30	92
n-Propylbenzene	103-65-1	Soil/Solid	8260B	0.013	0.25	mg/kg	--	--	30	93
o-Xylene	95-47-6	Soil/Solid	8260B	0.015	0.25	mg/kg	--	45 M	45 M	130 M
p-Isopropyltoluene	99-87-6	Soil/Solid	8260B	0.014	0.25	mg/kg	--	--	--	--
sec-Butylbenzene	135-98-8	Soil/Solid	8260B	0.012	0.25	mg/kg	--	--	25	70
Styrene	100-42-5	Soil/Solid	8260B	0.012	0.25	mg/kg	--	1.9	210	600
tert-Butylbenzene	98-06-6	Soil/Solid	8260B	0.0073	0.25	mg/kg	--	--	30	90
Tetrachloroethene	127-18-4	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.068	72	131
Tetrahydrofuran	109-99-9	Soil/Solid	8260B	0.068	2.0	mg/kg	--	0.16	--	--
Toluene	108-88-3	Soil/Solid	8260B	0.0063	0.25	mg/kg	--	6.4	107	305
trans-1,2-Dichloroethene	156-60-5	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.27	11	33
trans-1,3-Dichloropropene	10061-02-6	Soil/Solid	8260B	0.013	0.25	mg/kg	--	0.005 M	--	--
Trichloroethene	79-01-6	Soil/Solid	8260B	0.013	0.25	mg/kg	--	0.14	29	46
Trichlorofluoromethane	75-69-4	Soil/Solid	8260B	0.035	0.25	mg/kg	--	22	67	195
Vinyl chloride	75-01-4	Soil/Solid	8260B	0.031	0.25	mg/kg	--	0.001	0.8	2.2
VOCs - Water/Liquid										
1,1,1,2-Tetrachloroethane	630-20-6	Water/Liquid	8260B	0.083	1.0	ug/L	70	--	--	--
1,1,1-Trichloroethane	71-55-6	Water/Liquid	8260B	0.098	1.0	ug/L	9000 (4)	--	--	--
1,1,2,2-Tetrachloroethane	79-34-5	Water/Liquid	8260B	0.084	1.0	ug/L	2	--	--	--
1,1,2-Trichloroethane	79-00-5	Water/Liquid	8260B	0.15	1.0	ug/L	3	--	--	--
1,1,2-Trichlorotrifluoroethane	76-13-1	Water/Liquid	8260B	0.10	1.0	ug/L	200000	--	--	--
1,1-Dichloroethane	75-34-3	Water/Liquid	8260B	0.094	1.0	ug/L	100 (7)	--	--	--
1,1-Dichloroethene	75-35-4	Water/Liquid	8260B	0.10	1.0	ug/L	200	--	--	--
1,1-Dichloropropene	563-58-6	Water/Liquid	8260B	0.099	1.0	ug/L	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	Water/Liquid	8260B	0.40	5.0	ug/L	--	--	--	--
1,2,3-Trichloropropane	96-18-4	Water/Liquid	8260B	0.13	2.5	ug/L	40	--	--	--
1,2,4-Trichlorobenzene	120-82-1	Water/Liquid	8260B	0.52	5.0	ug/L	--	--	--	--
1,2,4-Trimethylbenzene	95-63-6	Water/Liquid	8260B	0.052	1.0	ug/L	--	--	--	--
1,2-Dibromo-3-chloropropane	96-12-8	Water/Liquid	8260B	1.2	5.0	ug/L	--	--	--	--
1,2-Dibromoethane (EDB)	106-93-4	Water/Liquid	8260B	0.10	2.5	ug/L	0.004	--	--	--
1,2-Dichlorobenzene	95-50-1	Water/Liquid	8260B	0.12	1.0	ug/L	600	--	--	--
1,2-Dichloroethane	107-06-2	Water/Liquid	8260B	0.084	1.0	ug/L	4	--	--	--
1,2-Dichloropropane	78-87-5	Water/Liquid	8260B	0.13	1.0	ug/L	5	--	--	--
1,3,5-Trimethylbenzene	108-67-8	Water/Liquid	8260B	0.066	1.0	ug/L	100 (4) (6)	--	--	--
1,3-Dichlorobenzene	541-73-1	Water/Liquid	8260B	0.094	1.0	ug/L	--	--	--	--
1,3-Dichloropropane	142-28-9	Water/Liquid	8260B	0.074	1.0	ug/L	--	--	--	--
1,4-Dichlorobenzene	106-46-7	Water/Liquid	8260B	0.053	1.0	ug/L	10	--	--	--
2,2-Dichloropropane	594-20-7	Water/Liquid	8260B	0.23	5.0	ug/L	--	--	--	--
2-Butanone	78-93-3	Water/Liquid	8260B	0.58	20	ug/L	4000	--	--	--
2-Chlorotoluene	95-49-8	Water/Liquid	8260B	0.077	1.0	ug/L	--	--	--	--
4-Chlorotoluene	106-43-4	Water/Liquid	8260B	0.059	1.0	ug/L	--	--	--	--
Acetone	67-64-1	Water/Liquid	8260B	0.69	20	ug/L	700	--	--	--
Allyl chloride	107-05-1	Water/Liquid	8260B	0.28	5.0	ug/L	30	--	--	--
Benzene	71-43-2	Water/Liquid	8260B	0.047	1.0	ug/L	2 (4)	--	--	--
Bromobenzene	108-86-1	Water/Liquid	8260B	0.084	1.0	ug/L	--	--	--	--
Bromochloromethane	74-97-5	Water/Liquid	8260B	0.075	1.0	ug/L	--	--	--	--
Bromodichloromethane	75-27-4	Water/Liquid	8260B	0.13	1.0	ug/L	8	--	--	--
Bromoform	75-25-2	Water/Liquid	8260B	0.074	5.0	ug/L	40	--	--	--
Bromomethane	74-83-9	Water/Liquid	8260B	0.26	5.0	ug/L	10	--	--	--
Carbon tetrachloride	56-23-5	Water/Liquid	8260B	0.074	1.0	ug/L	3	--	--	--
Chlorobenzene	108-90-7	Water/Liquid	8260B	0.025	1.0	ug/L	100	--	--	--
Chloroethane	75-00-3	Water/Liquid	8260B	0.26	2.5	ug/L	--	--	--	--
Chloroform	67-66-3	Water/Liquid	8260B	0.098	1.0	ug/L	30 (4) (6)	--	--	--
Chloromethane	74-87-3	Water/Liquid	8260B	0.098	2.5	ug/L	--	--	--	--
cis-1,2-Dichloroethene	156-59-2	Water/Liquid	8260B	0.12	1.0	ug/L	50 (4)	--	--	--
cis-1,3-Dichloropropene	10061-01-5	Water/Liquid	8260B	0.11	1.0	ug/L	--	--	--	--
Dibromochloromethane	124-48-1	Water/Liquid	8260B	0.084	2.5	ug/L	10	--	--	--
Dibromomethane	74-95-3	Water/Liquid	8260B	0.14	2.5	ug/L	--	--	--	--
Dichlorodifluoromethane	75-71-8	Water/Liquid	8260B	0.39	5.0	ug/L	700 (4)	--	--	--
Dichlorofluoromethane	75-43-4	Water/Liquid	8260B	0.070	1.0	ug/L	--	--	--	--
Ethyl ether	60-29-7	Water/Liquid	8260B	0.10	5.0	ug/L	1000	--	--	--
Ethylbenzene	100-41-4	Water/Liquid	8260B	0.055	1.0	ug/L	700	--	--	--
Hexachlorobutadiene	87-68-3	Water/Liquid	8260B	0.58	10	ug/L	1	--	--	--
Isopropylbenzene	98-82-8	Water/Liquid	8260B	0.068	1.0	ug/L	300	--	--	--
m,p-Xylene	108-38-3 106-42-3	Water/Liquid	8260B	0.14	2.0	ug/L	10000 M	--	--	--
Methyl isobutyl ketone	108-10-1	Water/Liquid	8260B	0.13	5.0	ug/L	300	--	--	--
Methyl tert-butyl ether	1634-04-4	Water/Liquid	8260B	0.079	1.0	ug/L	--	--	--	--

P:\Mpls\23 MN\19\2319B05 UMore park environmental\WorkFiles\Phase II Investigation WO#1 and #6\Phase II Work Plan\SSI_RI Work Plan\SAP\V2.0\Part 2-QAPP\Tables\Table 1

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [a]	Minnesota Tier SLV [a]	Minnesota SRV [b]	Minnesota Tier II Industrial SRV [b]
Methylene chloride	75-09-2	Water/Liquid	8260B	0.29	5.0	ug/L	5 (3)	--	--	--
Naphthalene	91-20-3	Water/Liquid	8260B	0.38	5.0	ug/L	300	--	--	--
n-Butylbenzene	104-51-8	Water/Liquid	8260B	0.094	2.5	ug/L	--	--	--	--
n-Propylbenzene	103-65-1	Water/Liquid	8260B	0.079	1.0	ug/L	--	--	--	--
o-Xylene	95-47-6	Water/Liquid	8260B	0.074	1.0	ug/L	10000 M	--	--	--
p-Isopropyltoluene	99-87-6	Water/Liquid	8260B	0.087	2.5	ug/L	--	--	--	--
sec-Butylbenzene	135-98-8	Water/Liquid	8260B	0.030	1.0	ug/L	--	--	--	--
Styrene	100-42-5	Water/Liquid	8260B	0.072	1.0	ug/L	--	--	--	--
tert-Butylbenzene	98-06-6	Water/Liquid	8260B	0.046	1.0	ug/L	--	--	--	--
Tetrachloroethene	127-18-4	Water/Liquid	8260B	0.10	1.0	ug/L	5 (3)	--	--	--
Tetrahydrofuran	109-99-9	Water/Liquid	8260B	0.76	20	ug/L	--	--	--	--
Toluene	108-88-3	Water/Liquid	8260B	0.038	1.0	ug/L	1000	--	--	--
trans-1,2-Dichloroethene	156-60-5	Water/Liquid	8260B	0.14	1.0	ug/L	100	--	--	--
trans-1,3-Dichloropropene	10061-02-6	Water/Liquid	8260B	0.082	1.0	ug/L	--	--	--	--
Trichloroethene	79-01-6	Water/Liquid	8260B	0.097	1.0	ug/L	5 (3)	--	--	--
Trichlorofluoromethane	75-69-4	Water/Liquid	8260B	0.17	1.0	ug/L	2000	--	--	--
Vinyl chloride	75-01-4	Water/Liquid	8260B	0.10	1.0	ug/L	0.2 (4)	--	--	--
Semi-Volatile Organics										
1,2,4-Trichlorobenzene	120-82-1	Soil/Solid	8270C	0.020	0.33	mg/kg	--	0.31	200	985
1,2-Dichlorobenzene	95-50-1	Soil/Solid	8270C	0.012	0.33	mg/kg	--	8.1	26	75
1,2-Diphenylhydrazine as Azobenzene	103-33-3	Soil/Solid	8270C	0.039	0.33	mg/kg	--	--	--	--
1,3-Dichlorobenzene	541-73-1	Soil/Solid	8270C	0.014	0.33	mg/kg	--	4.2	26	200
1,4-Dichlorobenzene	106-46-7	Soil/Solid	8270C	0.013	0.33	mg/kg	--	0.13	30	50
2,3,4,6-Tetrachlorophenol	58-90-2	Soil/Solid	8270C	0.072	0.67	mg/kg	--	--	636	3700
2,4,5-Trichlorophenol	95-95-4	Soil/Solid	8270C	0.039	0.67	mg/kg	--	--	1920	10600
2,4,6-Trichlorophenol	88-06-2	Soil/Solid	8270C	0.081	0.67	mg/kg	--	0.21	595	1060
2,4-Dichlorophenol	120-83-2	Soil/Solid	8270C	0.046	0.67	mg/kg	--	0.076	46	230
2,4-Dimethylphenol	105-67-9	Soil/Solid	8270C	0.079	0.67	mg/kg	--	0.34	390	1925
2,4-Dinitrophenol	51-28-5	Soil/Solid	8270C	0.064	0.67	mg/kg	--	0.014	--	--
2,4-Dinitrotoluene	121-14-2	Soil/Solid	8270C	0.044	0.33	mg/kg	--	0.001	50	355
2,6-Dichlorophenol	87-65-0	Soil/Solid	8270C	0.042	0.67	mg/kg	--	--	--	--
2,6-Dinitrotoluene	606-20-2	Soil/Solid	8270C	0.040	0.33	mg/kg	--	0.001	25	175
2-Chloronaphthalene	91-58-7	Soil/Solid	8270C	0.018	0.33	mg/kg	--	--	--	--
2-Chlorophenol	95-57-8	Soil/Solid	8270C	0.029	0.67	mg/kg	--	0.26	--	--
2-Methylnaphthalene	91-57-6	Soil/Solid	8270C	0.021	0.33	mg/kg	--	--	100	369
2-Methylphenol	95-48-7	Soil/Solid	8270C	0.019	0.67	mg/kg	--	0.064	75	352
2-Nitroaniline	88-74-4	Soil/Solid	8270C	0.041	0.33	mg/kg	--	--	--	--
2-Nitrophenol	88-75-5	Soil/Solid	8270C	0.040	0.67	mg/kg	--	0.60	--	--
3,3'-Dichlorobenzidine	91-94-1	Soil/Solid	8270C	0.21	1.6	mg/kg	--	0.36	25	50
3-Nitroaniline	99-09-2	Soil/Solid	8270C	0.041	0.33	mg/kg	--	--	--	--
4,6-Dinitro-2-methylphenol	534-52-1	Soil/Solid	8270C	0.097	0.67	mg/kg	--	--	--	--
4-Bromophenyl phenyl ether	101-55-3	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	--	--
4-Chloro-3-methylphenol	59-50-7	Soil/Solid	8270C	0.075	0.67	mg/kg	--	--	--	--
4-Chloroaniline	106-47-8	Soil/Solid	8270C	0.022	0.67	mg/kg	--	--	--	--
4-Chlorophenyl phenyl ether	7005-72-3	Soil/Solid	8270C	0.024	0.33	mg/kg	--	--	--	--
4-Methylphenol	106-44-5	Soil/Solid	8270C	0.017	0.67	mg/kg	--	0.033	10	59
4-Nitroaniline	100-01-6	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	--	--
4-Nitrophenol	100-02-7	Soil/Solid	8270C	0.081	0.67	mg/kg	--	--	--	--
Acenaphthene	83-32-9	Soil/Solid	8270C	0.020	0.33	mg/kg	--	50	1200	5260
Acenaphthylene	208-96-8	Soil/Solid	8270C	0.031	0.33	mg/kg	--	--	--	--
Aniline	62-53-3	Soil/Solid	8270C	0.034	0.67	mg/kg	--	--	--	--
Anthracene	120-12-7	Soil/Solid	8270C	0.043	0.33	mg/kg	--	942	7880	45400
Benzidine	92-87-5	Soil/Solid	8270C	0.71	2.5	mg/kg	--	--	--	--
Benzo (a) anthracene	56-55-3	Soil/Solid	8270C	0.045	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (a) pyrene	50-32-8	Soil/Solid	8270C	0.049	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (b) fluoranthene	205-99-2	Soil/Solid	8270C	0.048	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (g,h,i) perylene	191-24-2	Soil/Solid	8270C	0.050	0.33	mg/kg	--	--	--	--
Benzo (k) fluoranthene	207-08-9	Soil/Solid	8270C	0.053	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzoic acid	65-85-0	Soil/Solid	8270C	0.036	0.33	mg/kg	--	30	50000	100000
Benzyl alcohol	100-51-6	Soil/Solid	8270C	0.11	0.67	mg/kg	--	--	8700	56000
Bis(2-chloroethoxy)methane	111-91-1	Soil/Solid	8270C	0.021	0.33	mg/kg	--	--	--	--
Bis(2-chloroethyl)ether	111-44-4	Soil/Solid	8270C	0.013	0.33	mg/kg	--	0.001	2.5	5
Bis(2-chloroisopropyl)ether	39638-32-9	Soil/Solid	8270C	0.017	0.33	mg/kg	--	--	--	--
Bis(2-ethylhexyl)phthalate	117-81-7	Soil/Solid	8270C	0.046	0.33	mg/kg	--	40	570	2100
Butyl benzyl phthalate	85-68-7	Soil/Solid	8270C	0.047	0.33	mg/kg	--	28	580	3700
Carbazole	86-74-8	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	700	1310
Chrysene	218-01-9	Soil/Solid	8270C	0.049	0.33	mg/kg	--	10.2 T	2 T	3 T
Dibenz (a,h) anthracene	53-70-3	Soil/Solid	8270C	0.053	0.33	mg/kg	--	10.2 T	2 T	3 T
Dibenzofuran	132-64-9	Soil/Solid	8270C	0.022	0.33	mg/kg	--	--	104	610

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits *	Minnesota Tier SLV *	Minnesota SRV *	Minnesota Tier II Industrial SRV *
Diethyl phthalate	84-66-2	Soil/Solid	8270C	0.045	0.33	mg/kg	--	18	--	--
Dimethyl phthalate	131-11-3	Soil/Solid	8270C	0.043	0.33	mg/kg	--	172	--	--
Di-n-butyl phthalate	84-74-2	Soil/Solid	8270C	0.054	0.33	mg/kg	--	23	2440	16300
Di-n-octyl phthalate	117-84-0	Soil/Solid	8270C	0.056	0.33	mg/kg	--	--	520	3700
Fluoranthene	206-44-0	Soil/Solid	8270C	0.047	0.33	mg/kg	--	295	1080	6800
Fluorene	86-73-7	Soil/Solid	8270C	0.011	0.33	mg/kg	--	47	850	4120
Hexachlorobenzene	118-74-1	Soil/Solid	8270C	0.041	0.33	mg/kg	--	0.32	5	9
Hexachlorobutadiene	87-68-3	Soil/Solid	8270C	0.035	0.33	mg/kg	--	25	6	37
Hexachlorocyclopentadiene	77-47-4	Soil/Solid	8270C	0.030	0.33	mg/kg	--	4.4	2	6
Hexachloroethane	67-72-1	Soil/Solid	8270C	0.018	0.33	mg/kg	--	0.050	--	--
Indeno (1,2,3-cd) pyrene	193-39-5	Soil/Solid	8270C	0.042	0.33	mg/kg	--	10.2 T	2 T	3 T
Isophorone	78-59-1	Soil/Solid	8270C	0.018	0.33	mg/kg	--	0.18	--	--
Naphthalene	91-20-3	Soil/Solid	8270C	0.015	0.33	mg/kg	--	7.5	10	28
Nitrobenzene	98-95-3	Soil/Solid	8270C	0.014	0.33	mg/kg	--	--	--	--
N-Nitrosodimethylamine	62-75-9	Soil/Solid	8270C	0.028	0.33	mg/kg	--	0.82	--	--
N-Nitrosodi-n-propylamine	621-64-7	Soil/Solid	8270C	0.014	0.33	mg/kg	--	--	0.7	1.2
N-Nitrosodiphenylamine ***	86-30-6	Soil/Solid	8270C	0.045	0.33	mg/kg	--	0.88	1950	3720
Diphenylamine ***	122-39-4	Soil/Solid	8270C	--	--	--	--	--	--	--
Pentachlorophenol	87-86-5	Soil/Solid	8270C	0.081	0.67	mg/kg	--	0.034	80	120
Phenanthrene	85-01-8	Soil/Solid	8270C	0.026	0.33	mg/kg	--	--	--	--
Phenol	108-95-2	Soil/Solid	8270C	0.027	0.67	mg/kg	--	7.8	1500	20203
Pyrene	129-00-0	Soil/Solid	8270C	0.046	0.33	mg/kg	--	272	890	5800
2,4-Dinitrotoluene (DNT)	121-14-2	Soil/Solid	8270C	0.063	3.0	mg/kg	--	0.001	50	355
2,6-Dinitrotoluene (DNT)	606-20-2	Soil/Solid	8270C	0.13	3.0	mg/kg	--	0.001	25	175
SemiVolatile Organics										
1,2,4-Trichlorobenzene	120-82-1	Water/Liquid	8270C	0.28	10	ug/L	--	--	--	--
1,2-Dichlorobenzene	95-50-1	Water/Liquid	8270C	0.21	10	ug/L	600	--	--	--
1,2-Diphenylhydrazine as Azobenzene	103-33-3	Water/Liquid	8270C	0.20	10	ug/L	--	--	--	--
1,3-Dichlorobenzene	541-73-1	Water/Liquid	8270C	0.21	10	ug/L	--	--	--	--
1,4-Dichlorobenzene	106-46-7	Water/Liquid	8270C	0.18	10	ug/L	10	--	--	--
2,3,4,6-Tetrachlorophenol	58-90-2	Water/Liquid	8270C	1.0	10	ug/L	--	--	--	--
2,4,5-Trichlorophenol	95-95-4	Water/Liquid	8270C	0.85	10	ug/L	--	--	--	--
2,4,6-Trichlorophenol	88-06-2	Water/Liquid	8270C	0.89	10	ug/L	30	--	--	--
2,4-Dichlorophenol	120-83-2	Water/Liquid	8270C	0.78	10	ug/L	20	--	--	--
2,4-Dimethylphenol	105-67-9	Water/Liquid	8270C	0.76	10	ug/L	100	--	--	--
2,4-Dinitrophenol	51-28-5	Water/Liquid	8270C	0.50	10	ug/L	10	--	--	--
2,4-Dinitrotoluene	121-14-2	Water/Liquid	8270C	0.49	10	ug/L	0.5 (2)	--	--	--
2,6-Dichlorophenol	87-65-0	Water/Liquid	8270C	0.78	10	ug/L	--	--	--	--
2,6-Dinitrotoluene	606-20-2	Water/Liquid	8270C	0.39	10	ug/L	0.5 (2)	--	--	--
2-Chloronaphthalene	91-58-7	Water/Liquid	8270C	0.20	10	ug/L	--	--	--	--
2-Chlorophenol	95-57-8	Water/Liquid	8270C	0.66	10	ug/L	30	--	--	--
2-Methylnaphthalene	91-57-6	Water/Liquid	8270C	0.32	10	ug/L	--	--	--	--
2-Methylphenol	95-48-7	Water/Liquid	8270C	0.77	10	ug/L	30	--	--	--
2-Nitroaniline	88-74-4	Water/Liquid	8270C	0.92	10	ug/L	--	--	--	--
2-Nitrophenol	88-75-5	Water/Liquid	8270C	1.0	10	ug/L	--	--	--	--
3,3'-Dichlorobenzidine	91-94-1	Water/Liquid	8270C	7.1	25	ug/L	0.8	--	--	--
3-Nitroaniline	99-09-2	Water/Liquid	8270C	0.95	10	ug/L	--	--	--	--
4,6-Dinitro-2-methylphenol	534-52-1	Water/Liquid	8270C	0.90	10	ug/L	--	--	--	--
4-Bromophenyl phenyl ether	101-55-3	Water/Liquid	8270C	0.19	10	ug/L	--	--	--	--
4-Chloro-3-methylphenol	59-50-7	Water/Liquid	8270C	0.79	10	ug/L	--	--	--	--
4-Chloroaniline	106-47-8	Water/Liquid	8270C	1.0	10	ug/L	--	--	--	--
4-Chlorophenol	106-48-9	Water/Liquid	8270C	NA	NA	ug/L	--	--	--	--
4-Chlorophenyl phenyl ether	7005-72-3	Water/Liquid	8270C	0.15	10	ug/L	--	--	--	--
4-Methylphenol	106-44-5	Water/Liquid	8270C	0.82	10	ug/L	3	--	--	--
4-Nitroaniline	100-01-6	Water/Liquid	8270C	0.63	10	ug/L	--	--	--	--
4-Nitrophenol	100-02-7	Water/Liquid	8270C	1.2	10	ug/L	--	--	--	--
Acenaphthene	83-32-9	Water/Liquid	8270C	0.15	10	ug/L	400	--	--	--
Acenaphthylene	208-96-8	Water/Liquid	8270C	0.17	10	ug/L	--	--	--	--
Aniline	62-53-3	Water/Liquid	8270C	0.97	10	ug/L	--	--	--	--
Anthracene	120-12-7	Water/Liquid	8270C	0.18	10	ug/L	2000	--	--	--
Benzidine	92-87-5	Water/Liquid	8270C	23	100	ug/L	--	--	--	--
Benzo (a) anthracene	56-55-3	Water/Liquid	8270C	0.18	10	ug/L	--	--	--	--
Benzo (a) pyrene	50-32-8	Water/Liquid	8270C	0.22	10	ug/L	--	--	--	--
Benzo (b) fluoranthene	205-99-2	Water/Liquid	8270C	0.18	10	ug/L	--	--	--	--
Benzo (g,h,i) perylene	191-24-2	Water/Liquid	8270C	0.24	10	ug/L	--	--	--	--
Benzo (k) fluoranthene	207-08-9	Water/Liquid	8270C	0.21	10	ug/L	--	--	--	--
Benzoic acid	65-85-0	Water/Liquid	8270C	0.75	10	ug/L	30000	--	--	--
Benzyl alcohol	100-51-6	Water/Liquid	8270C	0.66	10	ug/L	--	--	--	--
Bis(2-chloroethoxy)methane	111-91-1	Water/Liquid	8270C	0.21	10	ug/L	--	--	--	--

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits [3]	Minnesota Tier SLV [4]	Minnesota SRV [5]	Minnesota Tier II Industrial SRV [6]
Bis(2-chloroethyl)ether	111-44-4	Water/Liquid	8270C	0.21	10	ug/L	0.3	--	--	--
Bis(2-chloroisopropyl)ether	39638-32-9	Water/Liquid	8270C	0.14	10	ug/L	--	--	--	--
Bis(2-ethylhexyl)phthalate	117-81-7	Water/Liquid	8270C	0.45	10	ug/L	20 (1)	--	--	--
Butyl benzyl phthalate	85-68-7	Water/Liquid	8270C	0.33	10	ug/L	100	--	--	--
Carbazole	86-74-8	Water/Liquid	8270C	0.24	10	ug/L	--	--	--	--
Chrysene	218-01-9	Water/Liquid	8270C	0.15	10	ug/L	--	--	--	--
Dibenz (a,h) anthracene	53-70-3	Water/Liquid	8270C	0.25	10	ug/L	--	--	--	--
Dibenzofuran	132-64-9	Water/Liquid	8270C	0.27	10	ug/L	--	--	--	--
Diethyl phthalate	84-66-2	Water/Liquid	8270C	0.32	10	ug/L	6000	--	--	--
Dimethyl phthalate	131-11-3	Water/Liquid	8270C	0.26	10	ug/L	70000	--	--	--
Di-n-butyl phthalate	84-74-2	Water/Liquid	8270C	0.33	10	ug/L	700	--	--	--
Di-n-octyl phthalate	117-84-0	Water/Liquid	8270C	0.42	10	ug/L	--	--	--	--
Fluoranthene	206-44-0	Water/Liquid	8270C	0.23	10	ug/L	300	--	--	--
Fluorene	86-73-7	Water/Liquid	8270C	0.16	10	ug/L	300	--	--	--
Hexachlorobenzene	118-74-1	Water/Liquid	8270C	0.15	10	ug/L	0.2	--	--	--
Hexachlorobutadiene	87-68-3	Water/Liquid	8270C	0.34	10	ug/L	1	--	--	--
Hexachlorocyclopentadiene	77-47-4	Water/Liquid	8270C	0.22	10	ug/L	--	--	--	--
Hexachloroethane	67-72-1	Water/Liquid	8270C	0.30	10	ug/L	--	--	--	--
Indeno (1,2,3-cd) pyrene	193-39-5	Water/Liquid	8270C	0.19	10	ug/L	--	--	--	--
Isophorone	78-59-1	Water/Liquid	8270C	0.23	10	ug/L	100	--	--	--
Naphthalene	91-20-3	Water/Liquid	8270C	0.19	10	ug/L	300	--	--	--
Nitrobenzene	98-95-3	Water/Liquid	8270C	0.26	10	ug/L	--	--	--	--
N-Nitrosodimethylamine	62-75-9	Water/Liquid	8270C	0.30	10	ug/L	--	--	--	--
N-Nitrosodi-n-propylamine	621-64-7	Water/Liquid	8270C	0.28	10	ug/L	--	--	--	--
N-Nitrosodiphenylamine ***	86-30-6	Water/Liquid	8270C	0.27	10	ug/L	70	--	--	--
Diphenylamine ***	122-39-4	Water/Liquid	8270C	--	--	--	--	--	--	--
Pentachlorophenol	87-86-5	Water/Liquid	8270C	0.99	10	ug/L	1 (3)	--	--	--
Phenanthrene	85-01-8	Water/Liquid	8270C	0.13	10	ug/L	--	--	--	--
Phenol	108-95-2	Water/Liquid	8270C	0.59	10	ug/L	4000	--	--	--
Pyrene	129-00-0	Water/Liquid	8270C	0.24	10	ug/L	200	--	--	--

Notes:
M - the values with this notation indicate the limit is for all combined isomers of this compound
T - the values with this notation represent the limit for the total carcinogenic PAHs as BaP
C - Mercury as mercuric chloride
(TA) - Legend Technical Services, Inc. will subcontract this analysis to Test America, West Sacramento, California.
(Braun) - Legend Technical Services, Inc. will subcontract this analysis to Braun Intertec, Minneapolis, MN.
(1) Not a HRL but a Health Based Value (HBV)
(2) (SRL)-Specific Risk Level (water concentration which corresponds to a riskof 1E-5.
(3) Not a HRL but an EPA Maximum Contaminant Level (MCL).
(4) Value is representative of the lowest exposure duration published in the 2008 Health Risk Limits.
(5) Value represents the criteria for Chromium, hexavalent.
(6) Set at short-term HRL.
(7) Not a HRL, but a Risk Assessment Advice (RAA).
(8) Value represents the criteria for Chromium, Trivalent.
[3] - Minnesota Department of Health, Health Risk Limit (HRL) unless noted otherwise.
[4] - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Soil Leaching Value (SLV)
[5] - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Soil Reference Value (SRV)
[6] - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Tier II Industrial SRV.

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October 16, 2009

Ms. Kelly Neppl
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0904320
RE: 23190B05.07

Enclosed are the results of analyses for samples received by the laboratory on 10/02/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of this report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

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Client Manager II
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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904320
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/16/09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WSW-207605	0904320-01	Water	09/29/09 11:55	10/02/09 16:00
MW-D3-007	0904320-02	Water	09/29/09 15:30	10/02/09 16:00
MW-E2-305	0904320-03	Water	09/29/09 17:35	10/02/09 16:00
MW-E2-009	0904320-04	Water	09/30/09 13:05	10/02/09 16:00
M-1	0904320-05	Water	10/02/09 00:00	10/02/09 16:00
FB-1	0904320-06	Water	09/29/09 18:20	10/02/09 16:00
MW-E2-012	0904320-07	Water	10/02/09 11:40	10/02/09 16:00

Shipping Container Information

Default Cooler Temperature (°C): 4.5

Received on ice: Yes
Temperature blank was present
Received on ice pack: No
Received on melt water: No
Ambient: No
Acceptable (IH/ISO only): No
Custody seals: No

Case Narrative:

MN Certification does not apply to dichlorofluoromethane, tetrahydrofuran, and 1,1,2-trichlorotrifluoroethane in the 8260B analysis or to carbazole in the 8270C analysis.

Diethyl phthalate was detected in the 8270 water batch B9J0602 method blank between the MDL and RL. It was not detected in the sample. An LCS/LCSD/MS were prepared and analyzed for the batch instead of the method specified LCS/MS/MSD. Insufficient sample was received to meet method QC requirements.

Beryllium recoveries in the MS/MSD samples for the 6020 batch B9J1409 were below laboratory control limits. Recoveries in the LCS/LCSD samples and the corresponding RPDs were within limits. The MS/MSD source sample was sample WSW-207605.

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904320
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	10/16/09

DISSOLVED METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-D3-007 (0904320-02) Water Sampled: 09/29/09 15:30 Received: 10/02/09 16:00										
Antimony	**2.4**	0.50	0.046	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	
Arsenic	<10	10	2.0	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Beryllium	<0.027	0.50	0.027	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	
Cadmium	<1.0	1.0	0.099	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	
Copper	<20	20	1.4	ug/L	1	"	"	"	"	
Lead	<3.0	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B9J1308	10/13/09	10/16/09	EPA 7470A (Dissolved)	
Nickel	<5.0	5.0	0.28	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Selenium	<20	20	2.2	ug/L	1	"	"	"	"	
Silver	<5.0	5.0	0.18	ug/L	1	"	"	"	"	
Thallium	<0.0081	0.50	0.0081	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	
Zinc	**23**	20	4.4	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
MW-E2-305 (0904320-03) Water Sampled: 09/29/09 17:35 Received: 10/02/09 16:00										
Antimony	**0.60**	0.50	0.046	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	
Arsenic	<10	10	2.0	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Beryllium	<0.027	0.50	0.027	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	
Cadmium	<1.0	1.0	0.099	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	
Copper	<20	20	1.4	ug/L	1	"	"	"	"	
Lead	<3.0	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B9J1308	10/13/09	10/16/09	EPA 7470A (Dissolved)	
Nickel	<5.0	5.0	0.28	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Selenium	<20	20	2.2	ug/L	1	"	"	"	"	
Silver	<5.0	5.0	0.18	ug/L	1	"	"	"	"	
Thallium	<0.0081	0.50	0.0081	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	
Zinc	**170**	20	4.4	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
MW-E2-009 (0904320-04) Water Sampled: 09/30/09 13:05 Received: 10/02/09 16:00										
Antimony	**0.69**	0.50	0.046	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	
Arsenic	<10	10	2.0	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	

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Barr Engineering Co.	Project:	23190B05.07	
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #: 0904320
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported: 10/16/09

DISSOLVED METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-E2-009 (0904320-04) Water Sampled: 09/30/09 13:05 Received: 10/02/09 16:00										
Beryllium	<0.027	0.50	0.027	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	
Cadmium	<1.0	1.0	0.099	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	
Copper	<20	20	1.4	ug/L	1	"	"	"	"	
Lead	<3.0	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B9J1308	10/13/09	10/16/09	EPA 7470A (Dissolved)	
Nickel	<5.0	5.0	0.28	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Selenium	<20	20	2.2	ug/L	1	"	"	"	"	
Silver	<5.0	5.0	0.18	ug/L	1	"	"	"	"	
Thallium	<0.0081	0.50	0.0081	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	
Zinc	<20	20	4.4	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
M-1 (0904320-05) Water Sampled: 10/02/09 00:00 Received: 10/02/09 16:00										
Antimony	**0.078**	0.50	0.046	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	J
Arsenic	<10	10	2.0	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Beryllium	<0.027	0.50	0.027	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	
Cadmium	<1.0	1.0	0.099	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	
Copper	<20	20	1.4	ug/L	1	"	"	"	"	
Lead	<3.0	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B9J1308	10/13/09	10/16/09	EPA 7470A (Dissolved)	
Nickel	<5.0	5.0	0.28	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Selenium	<20	20	2.2	ug/L	1	"	"	"	"	
Silver	<5.0	5.0	0.18	ug/L	1	"	"	"	"	
Thallium	<0.0081	0.50	0.0081	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	
Zinc	<20	20	4.4	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
FB-1 (0904320-06) Water Sampled: 09/29/09 18:20 Received: 10/02/09 16:00										
Antimony	**0.89**	0.50	0.046	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	
Arsenic	<10	10	2.0	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Beryllium	**1.1**	0.50	0.027	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	
Cadmium	<1.0	1.0	0.099	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904320
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	10/16/09

DISSOLVED METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
FB-1 (0904320-06) Water Sampled: 09/29/09 18:20 Received: 10/02/09 16:00										
Copper	<20	20	1.4	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Lead	<3.0	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B9J1308	10/13/09	10/16/09	EPA 7470A (Dissolved)	
Nickel	<5.0	5.0	0.28	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Selenium	<20	20	2.2	ug/L	1	"	"	"	"	
Silver	<5.0	5.0	0.18	ug/L	1	"	"	"	"	
Thallium	**1.1**	0.50	0.0081	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	
Zinc	<20	20	4.4	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
MW-E2-012 (0904320-07) Water Sampled: 10/02/09 11:40 Received: 10/02/09 16:00										
Antimony	<0.046	0.50	0.046	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	
Arsenic	<10	10	2.0	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Beryllium	<0.027	0.50	0.027	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	
Cadmium	<1.0	1.0	0.099	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	
Copper	<20	20	1.4	ug/L	1	"	"	"	"	
Lead	<3.0	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B9J1308	10/13/09	10/16/09	EPA 7470A (Dissolved)	
Nickel	<5.0	5.0	0.28	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Selenium	<20	20	2.2	ug/L	1	"	"	"	"	
Silver	<5.0	5.0	0.18	ug/L	1	"	"	"	"	
Thallium	<0.0081	0.50	0.0081	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	
Zinc	<20	20	4.4	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904320
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/16/09

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WSW-207605 (0904320-01) Water Sampled: 09/29/09 11:55 Received: 10/02/09 16:00										
Antimony	<0.046	0.50	0.046	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020	
Arsenic	<10	10	2.0	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B	
Beryllium	<0.027	0.50	0.027	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020	M2
Cadmium	<1.0	1.0	0.099	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	
Copper	<20	20	1.4	ug/L	1	"	"	"	"	
Lead	<3.0	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B9J1308	10/13/09	10/16/09	EPA 7470A	
Nickel	<5.0	5.0	0.28	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B	
Selenium	<20	20	2.2	ug/L	1	"	"	"	"	
Silver	<5.0	5.0	0.18	ug/L	1	"	"	"	"	
Thallium	**0.082**	0.50	0.0081	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020	J
Zinc	**270**	20	4.4	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904320
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/16/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WSW-207605 (0904320-01) Water Sampled: 09/29/09 11:55 Received: 10/02/09 16:00										
1,2,4-Trichlorobenzene	<0.18	9.3	0.18	ug/L	1	B9J0602	10/06/09	10/06/09	EPA 8270C	
1,2-Dichlorobenzene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.56	9.3	0.56	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	9.3	0.74	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<1.5	9.3	1.5	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<0.93	9.3	0.93	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<0.31	9.3	0.31	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
2-Chlorophenol	<0.42	9.3	0.42	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<0.61	9.3	0.61	ug/L	1	"	"	"	"	
2-Methylphenol	<0.58	9.3	0.58	ug/L	1	"	"	"	"	
2-Nitroaniline	<0.67	9.3	0.67	ug/L	1	"	"	"	"	
2-Nitrophenol	<0.83	9.3	0.83	ug/L	1	"	"	"	"	
3,3´-Dichlorobenzidine	<6.8	23	6.8	ug/L	1	"	"	"	"	
3-Nitroaniline	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.60	9.3	0.60	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.51	9.3	0.51	ug/L	1	"	"	"	"	
4-Chloroaniline	<2.1	9.3	2.1	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
4-Methylphenol	<0.73	9.3	0.73	ug/L	1	"	"	"	"	
4-Nitroaniline	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
4-Nitrophenol	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Acenaphthene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
Acenaphthylene	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
Aniline	<2.0	9.3	2.0	ug/L	1	"	"	"	"	
Anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzidine	<17	93	17	ug/L	1	"	"	"	"	
Benzo (a) anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzo (a) pyrene	<0.27	9.3	0.27	ug/L	1	"	"	"	"	
Benzo (b) fluoranthene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904320
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/16/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WSW-207605 (0904320-01) Water Sampled: 09/29/09 11:55 Received: 10/02/09 16:00										
Benzo (k) fluoranthene	<0.29	9.3	0.29	ug/L	1	B9J0602	10/06/09	10/06/09	EPA 8270C	
Benzoic acid	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Benzyl alcohol	<0.50	9.3	0.50	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.17	9.3	0.17	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.18	9.3	0.18	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.40	9.3	0.40	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Carbazole	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Chrysene	<0.25	9.3	0.25	ug/L	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dibenzofuran	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Diethyl phthalate	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dimethyl phthalate	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<0.35	9.3	0.35	ug/L	1	"	"	"	"	
Fluoranthene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Fluorene	<0.37	9.3	0.37	ug/L	1	"	"	"	"	
Hexachlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Hexachloroethane	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Isophorone	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Naphthalene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Nitrobenzene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<0.88	9.3	0.88	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Pentachlorophenol	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
Phenanthrene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Phenol	<0.53	9.3	0.53	ug/L	1	"	"	"	"	
Pyrene	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	*87.8*			*48.5-114 %*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	*75.3*			*41.7-98.4 %*		"	"	"	"	
Surrogate: 2-Fluorophenol	*50.5*			*30-93.5 %*		"	"	"	"	
Surrogate: Nitrobenzene-d5	*72.6*			*47.4-97.8 %*		"	"	"	"	
Surrogate: Phenol-d6	*45.3*			*30-91.5 %*		"	"	"	"	
Surrogate: Terphenyl-d14	*61.5*			*30-108 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904320
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/16/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WSW-207605 (0904320-01) Water Sampled: 09/29/09 11:55 Received: 10/02/09 16:00										
1,1,1,2-Tetrachloroethane	<0.28	1.0	0.28	ug/L	1	B9J0608	10/06/09	10/07/09	EPA 8260B	
1,1,1-Trichloroethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.28	1.0	0.28	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<0.11	1.0	0.11	ug/L	1	"	"	"	"	
1,1-Dichloroethene	<0.12	1.0	0.12	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.47	5.0	0.47	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	2.5	0.24	ug/L	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.32	5.0	0.32	ug/L	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	5.0	0.60	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
2-Butanone	<0.67	20	0.67	ug/L	1	"	"	"	"	
2-Chlorotoluene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
4-Chlorotoluene	<0.14	1.0	0.14	ug/L	1	"	"	"	"	
Acetone	<2.8	20	2.8	ug/L	1	"	"	"	"	
Allyl chloride	<0.76	5.0	0.76	ug/L	1	"	"	"	"	
Benzene	<0.093	1.0	0.093	ug/L	1	"	"	"	"	
Bromobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Bromochloromethane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Bromodichloromethane	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Bromoform	<0.50	5.0	0.50	ug/L	1	"	"	"	"	
Bromomethane	<0.95	5.0	0.95	ug/L	1	"	"	"	"	
Carbon tetrachloride	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Chlorobenzene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
Chloroethane	<0.46	2.5	0.46	ug/L	1	"	"	"	"	
Chloroform	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Chloromethane	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904320
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	10/16/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WSW-207605 (0904320-01) Water Sampled: 09/29/09 11:55 Received: 10/02/09 16:00										
cis-1,3-Dichloropropene	<0.16	1.0	0.16	ug/L	1	B9J0608	10/06/09	10/07/09	EPA 8260B	
Dibromochloromethane	<0.50	2.5	0.50	ug/L	1	"	"	"	"	
Dibromomethane	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<0.31	1.0	0.31	ug/L	1	"	"	"	"	
Ethyl ether	<0.53	5.0	0.53	ug/L	1	"	"	"	"	
Ethylbenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.76	10	0.76	ug/L	1	"	"	"	"	
Isopropylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
m,p-Xylene	<0.42	2.0	0.42	ug/L	1	"	"	"	"	
Methyl isobutyl ketone	<1.1	5.0	1.1	ug/L	1	"	"	"	"	
Methyl tert-butyl ether	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
Methylene chloride	<0.65	5.0	0.65	ug/L	1	"	"	"	"	
Naphthalene	<0.40	5.0	0.40	ug/L	1	"	"	"	"	
n-Butylbenzene	<0.32	2.5	0.32	ug/L	1	"	"	"	"	
n-Propylbenzene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
o-Xylene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
sec-Butylbenzene	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Styrene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
tert-Butylbenzene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Tetrachloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Tetrahydrofuran	<0.77	20	0.77	ug/L	1	"	"	"	"	
Toluene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.29	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Vinyl chloride	<0.087	1.0	0.087	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*115*			*80-121 %*		"	"	"	"	
Surrogate: Dibromofluoromethane	*108*			*79.9-121 %*		"	"	"	"	
Surrogate: Toluene-d8	*103*			*80-120 %*		"	"	"	"	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904320
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	10/16/09

DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9J1308 - EPA 245.1/7470A Digestion											
Blank (B9J1308-BLK1)					Prepared: 10/13/09		Analyzed: 10/16/09				
Mercury	< 0.20	0.20	0.018	ug/L							
LCS (B9J1308-BS1)					Prepared: 10/13/09		Analyzed: 10/16/09				
Mercury	1.94	0.20	0.018	ug/L	2.00		97.0	80-120			
LCS Dup (B9J1308-BSD1)					Prepared: 10/13/09		Analyzed: 10/16/09				
Mercury	1.88	0.20	0.018	ug/L	2.00		94.0	80-120	3.14	20	
Matrix Spike (B9J1308-MS1)		**Source: 0904314-01**			Prepared: 10/13/09		Analyzed: 10/16/09				
Mercury	2.19	0.20	0.018	ug/L	2.00	0.460	86.5	75-125			
Matrix Spike Dup (B9J1308-MSD1)		**Source: 0904314-01**			Prepared: 10/13/09		Analyzed: 10/16/09				
Mercury	2.18	0.20	0.018	ug/L	2.00	0.460	86.0	75-125	0.458	20	
Batch B9J1409 - EPA 200.8 Digestion											
Blank (B9J1409-BLK1)					Prepared: 10/14/09		Analyzed: 10/16/09				
Antimony	< 0.046	0.50	0.046	ug/L							
Beryllium	< 0.027	0.50	0.027	ug/L							
Thallium	< 0.0081	0.50	0.0081	ug/L							
LCS (B9J1409-BS1)					Prepared: 10/14/09		Analyzed: 10/16/09				
Antimony	23.0	0.50	0.046	ug/L	20.0		115	80-120			
Beryllium	20.9	0.50	0.027	ug/L	20.0		104	80-120			
Thallium	21.1	0.50	0.0081	ug/L	20.0		106	80-120			
LCS Dup (B9J1409-BSD1)					Prepared: 10/14/09		Analyzed: 10/16/09				
Antimony	22.1	0.50	0.046	ug/L	20.0		111	80-120	3.91	20	
Beryllium	20.0	0.50	0.027	ug/L	20.0		99.9	80-120	4.39	20	
Thallium	21.3	0.50	0.0081	ug/L	20.0		106	80-120	0.571	20	
Matrix Spike (B9J1409-MS1)		**Source: 0904320-01**			Prepared: 10/14/09		Analyzed: 10/16/09				
Antimony	22.4	0.50	0.046	ug/L	20.0	<0.50	112	75-125			
Beryllium	3.01	0.50	0.027	ug/L	20.0	<0.50	15.0	75-125			M2
Thallium	20.9	0.50	0.0081	ug/L	20.0	<0.50	104	75-125			
Matrix Spike Dup (B9J1409-MSD1)		**Source: 0904320-01**			Prepared: 10/14/09		Analyzed: 10/16/09				
Antimony	22.1	0.50	0.046	ug/L	20.0	<0.50	111	75-125	1.15	20	
Beryllium	3.01	0.50	0.027	ug/L	20.0	<0.50	15.0	75-125	0.0266	20	M2
Thallium	21.3	0.50	0.0081	ug/L	20.0	<0.50	106	75-125	2.03	20	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904320
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	10/16/09

DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9J1410 - EPA 200.7/3005A Digestion											
Blank (B9J1410-BLK1)					Prepared: 10/14/09		Analyzed: 10/15/09				
Arsenic	< 10	10	2.0	ug/L							
Cadmium	< 1.0	1.0	0.099	ug/L							
Chromium	< 10	10	0.24	ug/L							
Copper	< 20	20	1.4	ug/L							
Lead	< 3.0	3.0	0.68	ug/L							
Nickel	< 5.0	5.0	0.28	ug/L							
Selenium	< 20	20	2.2	ug/L							
Silver	< 5.0	5.0	0.18	ug/L							
Zinc	< 20	20	4.4	ug/L							
LCS (B9J1410-BS1)					Prepared: 10/14/09		Analyzed: 10/15/09				
Arsenic	403	10	2.0	ug/L	399		101	80-120			
Cadmium	430	1.0	0.099	ug/L	399		108	80-120			
Chromium	423	10	0.24	ug/L	399		106	80-120			
Copper	415	20	1.4	ug/L	399		104	80-120			
Lead	427	3.0	0.68	ug/L	399		107	80-120			
Nickel	426	5.0	0.28	ug/L	399		107	80-120			
Selenium	396	20	2.2	ug/L	399		99.3	80-120			
Silver	41.3	5.0	0.18	ug/L	39.9		103	80-120			
Zinc	430	20	4.4	ug/L	399		108	80-120			
LCS Dup (B9J1410-BSD1)					Prepared: 10/14/09		Analyzed: 10/15/09				
Arsenic	405	10	2.0	ug/L	399		102	80-120	0.581	20	
Cadmium	431	1.0	0.099	ug/L	399		108	80-120	0.206	20	
Chromium	425	10	0.24	ug/L	399		106	80-120	0.454	20	
Copper	413	20	1.4	ug/L	399		104	80-120	0.350	20	
Lead	430	3.0	0.68	ug/L	399		108	80-120	0.629	20	
Nickel	429	5.0	0.28	ug/L	399		107	80-120	0.638	20	
Selenium	400	20	2.2	ug/L	399		100	80-120	0.974	20	
Silver	42.0	5.0	0.18	ug/L	39.9		105	80-120	1.63	20	
Zinc	430	20	4.4	ug/L	399		108	80-120	0.114	20	
Matrix Spike (B9J1410-MS1)		**Source: 0904314-01**			Prepared: 10/14/09		Analyzed: 10/15/09				
Arsenic	403	10	2.0	ug/L	399	<10	101	75-125			
Cadmium	412	1.0	0.099	ug/L	399	<1.0	103	75-125			
Chromium	412	10	0.24	ug/L	399	<10	103	75-125			
Copper	409	20	1.4	ug/L	399	<20	103	75-125			
Lead	414	3.0	0.68	ug/L	399	<3.0	104	75-125			
Nickel	409	5.0	0.28	ug/L	399	<5.0	103	75-125			
Selenium	396	20	2.2	ug/L	399	<20	99.3	75-125			
Silver	41.2	5.0	0.18	ug/L	39.9	<5.0	103	75-125			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904320
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/16/09

DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9J1410 - EPA 200.7/3005A Digestion											
Matrix Spike (B9J1410-MS1)		**Source: 0904314-01**			Prepared: 10/14/09		Analyzed: 10/15/09				
Zinc	406	20	4.4	ug/L	399	<20	102	75-125			
Matrix Spike Dup (B9J1410-MSD1)		**Source: 0904314-01**			Prepared: 10/14/09		Analyzed: 10/15/09				
Arsenic	397	10	2.0	ug/L	399	<10	99.4	75-125	1.63	20	
Cadmium	407	1.0	0.099	ug/L	399	<1.0	102	75-125	1.16	20	
Chromium	406	10	0.24	ug/L	399	<10	102	75-125	1.41	20	
Copper	396	20	1.4	ug/L	399	<20	99.3	75-125	3.24	20	
Lead	407	3.0	0.68	ug/L	399	<3.0	102	75-125	1.64	20	
Nickel	404	5.0	0.28	ug/L	399	<5.0	101	75-125	1.19	20	
Selenium	394	20	2.2	ug/L	399	<20	98.8	75-125	0.468	20	
Silver	40.5	5.0	0.18	ug/L	39.9	<5.0	101	75-125	1.91	20	
Zinc	402	20	4.4	ug/L	399	<20	101	75-125	0.972	20	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904320
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/16/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9J1308 - EPA 245.1/7470A Digestion											
Blank (B9J1308-BLK1)					Prepared: 10/13/09		Analyzed: 10/16/09				
Mercury	< 0.20	0.20	0.018	ug/L							
LCS (B9J1308-BS1)					Prepared: 10/13/09		Analyzed: 10/16/09				
Mercury	1.94	0.20	0.018	ug/L	2.00		97.0	80-120			
LCS Dup (B9J1308-BSD1)					Prepared: 10/13/09		Analyzed: 10/16/09				
Mercury	1.88	0.20	0.018	ug/L	2.00		94.0	80-120	3.14	20	
Matrix Spike (B9J1308-MS1)		**Source: 0904314-01**			Prepared: 10/13/09		Analyzed: 10/16/09				
Mercury	2.19	0.20	0.018	ug/L	2.00	0.460	86.5	75-125			
Matrix Spike Dup (B9J1308-MSD1)		**Source: 0904314-01**			Prepared: 10/13/09		Analyzed: 10/16/09				
Mercury	2.18	0.20	0.018	ug/L	2.00	0.460	86.0	75-125	0.458	20	
Batch B9J1409 - EPA 200.8 Digestion											
Blank (B9J1409-BLK1)					Prepared: 10/14/09		Analyzed: 10/16/09				
Antimony	< 0.046	0.50	0.046	ug/L							
Beryllium	< 0.027	0.50	0.027	ug/L							
Thallium	< 0.0081	0.50	0.0081	ug/L							
LCS (B9J1409-BS1)					Prepared: 10/14/09		Analyzed: 10/16/09				
Antimony	23.0	0.50	0.046	ug/L	20.0		115	80-120			
Beryllium	20.9	0.50	0.027	ug/L	20.0		104	80-120			
Thallium	21.1	0.50	0.0081	ug/L	20.0		106	80-120			
LCS Dup (B9J1409-BSD1)					Prepared: 10/14/09		Analyzed: 10/16/09				
Antimony	22.1	0.50	0.046	ug/L	20.0		111	80-120	3.91	20	
Beryllium	20.0	0.50	0.027	ug/L	20.0		99.9	80-120	4.39	20	
Thallium	21.3	0.50	0.0081	ug/L	20.0		106	80-120	0.571	20	
Matrix Spike (B9J1409-MS1)		**Source: 0904320-01**			Prepared: 10/14/09		Analyzed: 10/16/09				
Antimony	22.4	0.50	0.046	ug/L	20.0	<0.50	112	75-125			
Beryllium	3.01	0.50	0.027	ug/L	20.0	<0.50	15.0	75-125			M2
Thallium	20.9	0.50	0.0081	ug/L	20.0	<0.50	104	75-125			
Matrix Spike Dup (B9J1409-MSD1)		**Source: 0904320-01**			Prepared: 10/14/09		Analyzed: 10/16/09				
Antimony	22.1	0.50	0.046	ug/L	20.0	<0.50	111	75-125	1.15	20	
Beryllium	3.01	0.50	0.027	ug/L	20.0	<0.50	15.0	75-125	0.0266	20	M2
Thallium	21.3	0.50	0.0081	ug/L	20.0	<0.50	106	75-125	2.03	20	

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Barr Engineering Co.	Project:	23190B05.07			
4700 W 77th St	Project Number:	23190B05.07 SIRI 300		Work Order #:	0904320
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl		Date Reported:	10/16/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9J1410 - EPA 200.7/3005A Digestion											
Blank (B9J1410-BLK1)					Prepared: 10/14/09		Analyzed: 10/15/09				
Arsenic	< 10	10	2.0	ug/L							
Cadmium	< 1.0	1.0	0.099	ug/L							
Chromium	< 10	10	0.24	ug/L							
Copper	< 20	20	1.4	ug/L							
Lead	< 3.0	3.0	0.68	ug/L							
Nickel	< 5.0	5.0	0.28	ug/L							
Selenium	< 20	20	2.2	ug/L							
Silver	< 5.0	5.0	0.18	ug/L							
Zinc	< 20	20	4.4	ug/L							
LCS (B9J1410-BS1)					Prepared: 10/14/09		Analyzed: 10/15/09				
Arsenic	403	10	2.0	ug/L	399		101	80-120			
Cadmium	430	1.0	0.099	ug/L	399		108	80-120			
Chromium	423	10	0.24	ug/L	399		106	80-120			
Copper	415	20	1.4	ug/L	399		104	80-120			
Lead	427	3.0	0.68	ug/L	399		107	80-120			
Nickel	426	5.0	0.28	ug/L	399		107	80-120			
Selenium	396	20	2.2	ug/L	399		99.3	80-120			
Silver	41.3	5.0	0.18	ug/L	39.9		103	80-120			
Zinc	430	20	4.4	ug/L	399		108	80-120			
LCS Dup (B9J1410-BSD1)					Prepared: 10/14/09		Analyzed: 10/15/09				
Arsenic	405	10	2.0	ug/L	399		102	80-120	0.581	20	
Cadmium	431	1.0	0.099	ug/L	399		108	80-120	0.206	20	
Chromium	425	10	0.24	ug/L	399		106	80-120	0.454	20	
Copper	413	20	1.4	ug/L	399		104	80-120	0.350	20	
Lead	430	3.0	0.68	ug/L	399		108	80-120	0.629	20	
Nickel	429	5.0	0.28	ug/L	399		107	80-120	0.638	20	
Selenium	400	20	2.2	ug/L	399		100	80-120	0.974	20	
Silver	42.0	5.0	0.18	ug/L	39.9		105	80-120	1.63	20	
Zinc	430	20	4.4	ug/L	399		108	80-120	0.114	20	
Matrix Spike (B9J1410-MS1)		**Source: 0904314-01**			Prepared: 10/14/09		Analyzed: 10/15/09				
Arsenic	403	10	2.0	ug/L	399	<10	101	75-125			
Cadmium	412	1.0	0.099	ug/L	399	<1.0	103	75-125			
Chromium	412	10	0.24	ug/L	399	<10	103	75-125			
Copper	409	20	1.4	ug/L	399	<20	103	75-125			
Lead	414	3.0	0.68	ug/L	399	<3.0	104	75-125			
Nickel	409	5.0	0.28	ug/L	399	<5.0	103	75-125			
Selenium	396	20	2.2	ug/L	399	<20	99.3	75-125			
Silver	41.2	5.0	0.18	ug/L	39.9	<5.0	103	75-125			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904320
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/16/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9J1410 - EPA 200.7/3005A Digestion											
Matrix Spike (B9J1410-MS1)		**Source: 0904314-01**			Prepared: 10/14/09		Analyzed: 10/15/09				
Zinc	406	20	4.4	ug/L	399	<20	102	75-125			
Matrix Spike Dup (B9J1410-MSD1)		**Source: 0904314-01**			Prepared: 10/14/09		Analyzed: 10/15/09				
Arsenic	397	10	2.0	ug/L	399	<10	99.4	75-125	1.63	20	
Cadmium	407	1.0	0.099	ug/L	399	<1.0	102	75-125	1.16	20	
Chromium	406	10	0.24	ug/L	399	<10	102	75-125	1.41	20	
Copper	396	20	1.4	ug/L	399	<20	99.3	75-125	3.24	20	
Lead	407	3.0	0.68	ug/L	399	<3.0	102	75-125	1.64	20	
Nickel	404	5.0	0.28	ug/L	399	<5.0	101	75-125	1.19	20	
Selenium	394	20	2.2	ug/L	399	<20	98.8	75-125	0.468	20	
Silver	40.5	5.0	0.18	ug/L	39.9	<5.0	101	75-125	1.91	20	
Zinc	402	20	4.4	ug/L	399	<20	101	75-125	0.972	20	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904320
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/16/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9J0602 - EPA 3510C (Sep Funnel)											
Blank (B9J0602-BLK1)					Prepared & Analyzed: 10/06/09						
1,2,4-Trichlorobenzene	< 0.19	10	0.19	ug/L							
1,2-Dichlorobenzene	< 0.23	10	0.23	ug/L							
1,2-Diphenylhydrazine as Azobenzene	< 0.24	10	0.24	ug/L							
1,3-Dichlorobenzene	< 0.21	10	0.21	ug/L							
1,4-Dichlorobenzene	< 0.22	10	0.22	ug/L							
2,3,4,6-Tetrachlorophenol	< 0.61	10	0.61	ug/L							
2,4,5-Trichlorophenol	< 0.80	10	0.80	ug/L							
2,4,6-Trichlorophenol	< 0.48	10	0.48	ug/L							
2,4-Dichlorophenol	< 0.47	10	0.47	ug/L							
2,4-Dimethylphenol	< 1.6	10	1.6	ug/L							
2,4-Dinitrophenol	< 1.0	10	1.0	ug/L							
2,4-Dinitrotoluene	< 0.33	10	0.33	ug/L							
2,6-Dichlorophenol	< 0.48	10	0.48	ug/L							
2,6-Dinitrotoluene	< 0.36	10	0.36	ug/L							
2-Chloronaphthalene	< 0.28	10	0.28	ug/L							
2-Chlorophenol	< 0.45	10	0.45	ug/L							
2-Methylnaphthalene	< 0.66	10	0.66	ug/L							
2-Methylphenol	< 0.63	10	0.63	ug/L							
2-Nitroaniline	< 0.72	10	0.72	ug/L							
2-Nitrophenol	< 0.90	10	0.90	ug/L							
3,3´-Dichlorobenzidine	< 7.3	25	7.3	ug/L							
3-Nitroaniline	< 1.2	10	1.2	ug/L							
4,6-Dinitro-2-methylphenol	< 0.65	10	0.65	ug/L							
4-Bromophenyl phenyl ether	< 0.17	10	0.17	ug/L							
4-Chloro-3-methylphenol	< 0.55	10	0.55	ug/L							
4-Chloroaniline	< 2.3	10	2.3	ug/L							
4-Chlorophenyl phenyl ether	< 0.25	10	0.25	ug/L							
4-Methylphenol	< 0.79	10	0.79	ug/L							
4-Nitroaniline	< 0.59	10	0.59	ug/L							
4-Nitrophenol	< 1.2	10	1.2	ug/L							
Acenaphthene	< 0.36	10	0.36	ug/L							
Acenaphthylene	< 0.25	10	0.25	ug/L							
Aniline	< 2.2	10	2.2	ug/L							
Anthracene	< 0.37	10	0.37	ug/L							
Benzidine	< 18	100	18	ug/L							
Benzo (a) anthracene	< 0.37	10	0.37	ug/L							
Benzo (a) pyrene	< 0.29	10	0.29	ug/L							
Benzo (b) fluoranthene	< 0.22	10	0.22	ug/L							
Benzo (g,h,i) perylene	< 0.26	10	0.26	ug/L							

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904320
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/16/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9J0602 - EPA 3510C (Sep Funnel)											
Blank (B9J0602-BLK1)					Prepared & Analyzed: 10/06/09						
Benzo (k) fluoranthene	< 0.31	10	0.31	ug/L							
Benzoic acid	< 1.2	10	1.2	ug/L							
Benzyl alcohol	< 0.54	10	0.54	ug/L							
Bis(2-chloroethoxy)methane	< 0.18	10	0.18	ug/L							
Bis(2-chloroethyl)ether	< 0.17	10	0.17	ug/L							
Bis(2-chloroisopropyl)ether	< 0.19	10	0.19	ug/L							
Bis(2-ethylhexyl)phthalate	< 0.43	10	0.43	ug/L							
Butyl benzyl phthalate	< 0.37	10	0.37	ug/L							
Carbazole	< 0.26	10	0.26	ug/L							
Chrysene	< 0.27	10	0.27	ug/L							
Dibenz (a,h) anthracene	< 0.23	10	0.23	ug/L							
Dibenzofuran	< 0.39	10	0.39	ug/L							
Diethyl phthalate	2.12	10	0.23	ug/L							B-02, J
Dimethyl phthalate	< 0.24	10	0.24	ug/L							
Di-n-butyl phthalate	< 0.28	10	0.28	ug/L							
Di-n-octyl phthalate	< 0.38	10	0.38	ug/L							
Fluoranthene	< 0.39	10	0.39	ug/L							
Fluorene	< 0.40	10	0.40	ug/L							
Hexachlorobenzene	< 0.20	10	0.20	ug/L							
Hexachlorobutadiene	< 0.26	10	0.26	ug/L							
Hexachlorocyclopentadiene	< 0.31	10	0.31	ug/L							
Hexachloroethane	< 0.31	10	0.31	ug/L							
Indeno (1,2,3-cd) pyrene	< 0.31	10	0.31	ug/L							
Isophorone	< 0.23	10	0.23	ug/L							
Naphthalene	< 0.37	10	0.37	ug/L							
Nitrobenzene	< 0.39	10	0.39	ug/L							
N-Nitrosodimethylamine	< 0.95	10	0.95	ug/L							
N-Nitrosodi-n-propylamine	< 0.21	10	0.21	ug/L							
N-Nitrosodiphenylamine	< 0.23	10	0.23	ug/L							
Pentachlorophenol	< 0.59	10	0.59	ug/L							
Phenanthrene	< 0.39	10	0.39	ug/L							
Phenol	< 0.57	10	0.57	ug/L							
Pyrene	< 0.47	10	0.47	ug/L							
Surrogate: 2,4,6-Tribromophenol	*91.7*			*ug/L*	*100*		*91.7*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*66.5*			*ug/L*	*100*		*66.5*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*64.7*			*ug/L*	*100*		*64.7*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*69.6*			*ug/L*	*100*		*69.6*	*47.4-97.8*			
Surrogate: Phenol-d6	*60.8*			*ug/L*	*100*		*60.8*	*30-91.5*			
Surrogate: Terphenyl-d14	*74.7*			*ug/L*	*100*		*74.7*	*30-108*			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904320
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/16/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9J0602 - EPA 3510C (Sep Funnel)											
LCS (B9J0602-BS1)					Prepared & Analyzed: 10/06/09						
1,2,4-Trichlorobenzene	54.8	10	0.19	ug/L	100		54.8	48.2-88.3			
1,4-Dichlorobenzene	47.7	10	0.22	ug/L	100		47.7	42.8-82.2			
2,4-Dinitrotoluene	77.6	10	0.33	ug/L	100		77.6	64.6-98.9			
2-Chlorophenol	62.6	10	0.45	ug/L	100		62.6	56.5-88.1			
4-Chloro-3-methylphenol	68.3	10	0.55	ug/L	100		68.3	63.4-95.2			
4-Nitrophenol	62.0	10	1.2	ug/L	100		62.0	51.3-90.6			
Anthracene	74.7	10	0.37	ug/L	100		74.7	66.7-92.8			
Benzo (a) anthracene	82.0	10	0.37	ug/L	100		82.0	72.7-97.2			
Benzo (a) pyrene	76.8	10	0.29	ug/L	100		76.8	66.4-101			
Chrysene	82.1	10	0.27	ug/L	100		82.1	71.5-98.1			
Fluoranthene	76.6	10	0.39	ug/L	100		76.6	68.8-94			
Fluorene	70.7	10	0.40	ug/L	100		70.7	64.2-94.4			
N-Nitrosodi-n-propylamine	66.6	10	0.21	ug/L	100		66.6	63.6-92.8			
Pentachlorophenol	74.7	10	0.59	ug/L	100		74.7	60.2-101			
Phenanthrene	76.2	10	0.39	ug/L	100		76.2	68.1-94.8			
Phenol	48.3	10	0.57	ug/L	100		48.3	39.6-71			
Surrogate: 2,4,6-Tribromophenol	*83.4*			*ug/L*	*100*		*83.4*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*63.5*			*ug/L*	*100*		*63.5*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*61.3*			*ug/L*	*100*		*61.3*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*65.2*			*ug/L*	*100*		*65.2*	*47.4-97.8*			
Surrogate: Phenol-d6	*56.3*			*ug/L*	*100*		*56.3*	*30-91.5*			
Surrogate: Terphenyl-d14	*77.7*			*ug/L*	*100*		*77.7*	*30-108*			
LCS Dup (B9J0602-BSD1)					Prepared & Analyzed: 10/06/09						**Q9, QM-10**
1,2,4-Trichlorobenzene	60.6	10	0.19	ug/L	100		60.6	48.2-88.3	10.0	20	
1,4-Dichlorobenzene	53.5	10	0.22	ug/L	100		53.5	42.8-82.2	11.6	20	
2,4-Dinitrotoluene	83.6	10	0.33	ug/L	100		83.6	64.6-98.9	7.47	20	
2-Chlorophenol	70.6	10	0.45	ug/L	100		70.6	56.5-88.1	12.0	20	
4-Chloro-3-methylphenol	74.1	10	0.55	ug/L	100		74.1	63.4-95.2	8.14	20	
4-Nitrophenol	65.0	10	1.2	ug/L	100		65.0	51.3-90.6	4.79	20	
Anthracene	80.4	10	0.37	ug/L	100		80.4	66.7-92.8	7.28	20	
Benzo (a) anthracene	88.7	10	0.37	ug/L	100		88.7	72.7-97.2	7.81	20	
Benzo (a) pyrene	82.2	10	0.29	ug/L	100		82.2	66.4-101	6.77	20	
Chrysene	88.3	10	0.27	ug/L	100		88.3	71.5-98.1	7.32	20	
Fluoranthene	80.3	10	0.39	ug/L	100		80.3	68.8-94	4.79	20	
Fluorene	76.5	10	0.40	ug/L	100		76.5	64.2-94.4	7.83	20	
N-Nitrosodi-n-propylamine	75.6	10	0.21	ug/L	100		75.6	63.6-92.8	12.8	20	
Pentachlorophenol	80.1	10	0.59	ug/L	100		80.1	60.2-101	7.01	20	
Phenanthrene	81.8	10	0.39	ug/L	100		81.8	68.1-94.8	7.04	20	
Phenol	54.2	10	0.57	ug/L	100		54.2	39.6-71	11.5	20	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904320
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/16/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9J0602 - EPA 3510C (Sep Funnel)											
LCS Dup (B9J0602-BSD1)					Prepared & Analyzed: 10/06/09						**Q9, QM-10**
Surrogate: 2,4,6-Tribromophenol	*89.3*			*ug/L*	*100*		*89.3*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*72.3*			*ug/L*	*100*		*72.3*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*69.0*			*ug/L*	*100*		*69.0*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*74.7*			*ug/L*	*100*		*74.7*	*47.4-97.8*			
Surrogate: Phenol-d6	*63.2*			*ug/L*	*100*		*63.2*	*30-91.5*			
Surrogate: Terphenyl-d14	*83.9*			*ug/L*	*100*		*83.9*	*30-108*			
Matrix Spike (B9J0602-MS1)		**Source: 0904311-02**			Prepared & Analyzed: 10/06/09						
1,2,4-Trichlorobenzene	73.1	10	0.19	ug/L	101	<10	72.3	43.8-87.4			
1,4-Dichlorobenzene	62.3	10	0.22	ug/L	101	<10	61.7	43.7-78.7			
2,4-Dinitrotoluene	80.5	10	0.33	ug/L	101	<10	79.7	52.8-100			
2-Chlorophenol	68.3	10	0.45	ug/L	101	<10	67.6	30.1-95			
4-Chloro-3-methylphenol	72.6	10	0.55	ug/L	101	<10	71.9	44.8-98.7			
4-Nitrophenol	65.1	10	1.2	ug/L	101	<10	64.4	32.5-99.6			
Anthracene	78.3	10	0.37	ug/L	101	<10	77.5	44.8-97.6			
Benzo (a) anthracene	85.5	10	0.37	ug/L	101	<10	84.7	30-115			
Benzo (a) pyrene	80.2	10	0.29	ug/L	101	<10	79.4	30-110			
Chrysene	85.7	10	0.27	ug/L	101	<10	84.8	30-115			
Fluoranthene	78.6	10	0.39	ug/L	101	<10	77.8	37.4-103			
Fluorene	74.3	10	0.40	ug/L	101	<10	73.6	49.6-92.1			
N-Nitrosodi-n-propylamine	72.3	10	0.21	ug/L	101	<10	71.6	44.9-100			
Pentachlorophenol	78.0	10	0.59	ug/L	101	<10	77.2	31.2-123			
Phenanthrene	80.2	10	0.39	ug/L	101	<10	79.4	47-99.1			
Phenol	52.9	10	0.57	ug/L	101	<10	52.3	30-79.5			
Surrogate: 2,4,6-Tribromophenol	*87.0*			*ug/L*	*101*		*86.1*	*48.5-114*			
Surrogate: 2-Fluorobiphenyl	*72.2*			*ug/L*	*101*		*71.5*	*41.7-98.4*			
Surrogate: 2-Fluorophenol	*67.0*			*ug/L*	*101*		*66.4*	*30-93.5*			
Surrogate: Nitrobenzene-d5	*72.1*			*ug/L*	*101*		*71.3*	*47.4-97.8*			
Surrogate: Phenol-d6	*61.8*			*ug/L*	*101*		*61.2*	*30-91.5*			
Surrogate: Terphenyl-d14	*80.7*			*ug/L*	*101*		*79.9*	*30-108*			

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Fax: 651-642-1239

Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904320
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/16/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9J0608 - EPA 5030 Water (Purge and Trap)											
Blank (B9J0608-BLK1)					Prepared: 10/06/09 Analyzed: 10/07/09						
1,1,1,2-Tetrachloroethane	< 0.28	1.0	0.28	ug/L							
1,1,1-Trichloroethane	< 0.17	1.0	0.17	ug/L							
1,1,2,2-Tetrachloroethane	< 0.13	1.0	0.13	ug/L							
1,1,2-Trichloroethane	< 0.19	1.0	0.19	ug/L							
1,1,2-Trichlorotrifluoroethane	< 0.28	1.0	0.28	ug/L							
1,1-Dichloroethane	< 0.11	1.0	0.11	ug/L							
1,1-Dichloroethene	< 0.12	1.0	0.12	ug/L							
1,1-Dichloropropene	< 0.15	1.0	0.15	ug/L							
1,2,3-Trichlorobenzene	< 0.47	5.0	0.47	ug/L							
1,2,3-Trichloropropane	< 0.24	2.5	0.24	ug/L							
1,2,4-Trichlorobenzene	< 0.32	5.0	0.32	ug/L							
1,2,4-Trimethylbenzene	< 0.17	1.0	0.17	ug/L							
1,2-Dibromo-3-chloropropane	< 0.60	5.0	0.60	ug/L							
1,2-Dibromoethane (EDB)	< 0.37	2.5	0.37	ug/L							
1,2-Dichlorobenzene	< 0.16	1.0	0.16	ug/L							
1,2-Dichloroethane	< 0.18	1.0	0.18	ug/L							
1,2-Dichloropropane	< 0.21	1.0	0.21	ug/L							
1,3,5-Trimethylbenzene	< 0.18	1.0	0.18	ug/L							
1,3-Dichlorobenzene	< 0.21	1.0	0.21	ug/L							
1,3-Dichloropropane	< 0.15	1.0	0.15	ug/L							
1,4-Dichlorobenzene	< 0.17	1.0	0.17	ug/L							
2,2-Dichloropropane	< 0.58	5.0	0.58	ug/L							
2-Butanone	< 0.67	20	0.67	ug/L							
2-Chlorotoluene	< 0.17	1.0	0.17	ug/L							
4-Chlorotoluene	< 0.14	1.0	0.14	ug/L							
Acetone	< 2.8	20	2.8	ug/L							
Allyl chloride	< 0.76	5.0	0.76	ug/L							
Benzene	< 0.093	1.0	0.093	ug/L							
Bromobenzene	< 0.17	1.0	0.17	ug/L							
Bromochloromethane	< 0.21	1.0	0.21	ug/L							
Bromodichloromethane	< 0.22	1.0	0.22	ug/L							
Bromoform	< 0.50	5.0	0.50	ug/L							
Bromomethane	< 0.95	5.0	0.95	ug/L							
Carbon tetrachloride	< 0.16	1.0	0.16	ug/L							
Chlorobenzene	< 0.15	1.0	0.15	ug/L							
Chloroethane	< 0.46	2.5	0.46	ug/L							
Chloroform	< 0.19	1.0	0.19	ug/L							
Chloromethane	< 0.37	2.5	0.37	ug/L							
cis-1,2-Dichloroethene	< 0.19	1.0	0.19	ug/L							

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904320
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/16/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9J0608 - EPA 5030 Water (Purge and Trap)											
Blank (B9J0608-BLK1)					Prepared: 10/06/09		Analyzed: 10/07/09				
cis-1,3-Dichloropropene	< 0.16	1.0	0.16	ug/L							
Dibromochloromethane	< 0.50	2.5	0.50	ug/L							
Dibromomethane	< 0.30	2.5	0.30	ug/L							
Dichlorodifluoromethane	< 0.58	5.0	0.58	ug/L							
Dichlorofluoromethane	< 0.31	1.0	0.31	ug/L							
Ethyl ether	< 0.53	5.0	0.53	ug/L							
Ethylbenzene	< 0.21	1.0	0.21	ug/L							
Hexachlorobutadiene	< 0.76	10	0.76	ug/L							
Isopropylbenzene	< 0.17	1.0	0.17	ug/L							
m,p-Xylene	< 0.42	2.0	0.42	ug/L							
Methyl isobutyl ketone	< 1.1	5.0	1.1	ug/L							
Methyl tert-butyl ether	< 0.13	1.0	0.13	ug/L							
Methylene chloride	< 0.65	5.0	0.65	ug/L							
Naphthalene	< 0.40	5.0	0.40	ug/L							
n-Butylbenzene	< 0.32	2.5	0.32	ug/L							
n-Propylbenzene	< 0.13	1.0	0.13	ug/L							
o-Xylene	< 0.18	1.0	0.18	ug/L							
p-Isopropyltoluene	< 0.30	2.5	0.30	ug/L							
sec-Butylbenzene	< 0.22	1.0	0.22	ug/L							
Styrene	< 0.13	1.0	0.13	ug/L							
tert-Butylbenzene	< 0.19	1.0	0.19	ug/L							
Tetrachloroethene	< 0.20	1.0	0.20	ug/L							
Tetrahydrofuran	< 0.77	20	0.77	ug/L							
Toluene	< 0.21	1.0	0.21	ug/L							
trans-1,2-Dichloroethene	< 0.29	1.0	0.29	ug/L							
trans-1,3-Dichloropropene	< 0.17	1.0	0.17	ug/L							
Trichloroethene	< 0.20	1.0	0.20	ug/L							
Trichlorofluoromethane	< 0.17	1.0	0.17	ug/L							
Vinyl chloride	< 0.087	1.0	0.087	ug/L							
Surrogate: 4-Bromofluorobenzene	*61.3*			*ug/L*	*55.0*		*111*	*80-121*			
Surrogate: Dibromofluoromethane	*56.4*			*ug/L*	*55.0*		*102*	*79.9-121*			
Surrogate: Toluene-d8	*55.4*			*ug/L*	*55.0*		*101*	*80-120*			
LCS (B9J0608-BS1)					Prepared: 10/06/09		Analyzed: 10/07/09				
1,1,2,2-Tetrachloroethane	51.1	1.0	0.13	ug/L	50.0		102	80-121			
1,1-Dichloroethane	51.5	1.0	0.11	ug/L	50.0		103	80-125			
1,1-Dichloroethene	56.1	1.0	0.12	ug/L	50.0		112	80-125			
1,3,5-Trimethylbenzene	50.7	1.0	0.18	ug/L	50.0		101	75.4-125			
1,4-Dichlorobenzene	48.5	1.0	0.17	ug/L	50.0		97.1	75-125			
2-Chlorotoluene	49.3	1.0	0.17	ug/L	50.0		98.6	75.4-125			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904320
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/16/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9J0608 - EPA 5030 Water (Purge and Trap)											
LCS (B9J0608-BS1)					Prepared: 10/06/09		Analyzed: 10/07/09				
Benzene	52.4	1.0	0.093	ug/L	50.0		105	80-120			
Bromoform	47.8	5.0	0.50	ug/L	50.0		95.6	80-120			
Chlorobenzene	49.0	1.0	0.15	ug/L	50.0		97.9	80-120			
Chloroform	49.8	1.0	0.19	ug/L	50.0		99.6	80-123			
Ethylbenzene	50.6	1.0	0.21	ug/L	50.0		101	80-120			
n-Butylbenzene	48.6	2.5	0.32	ug/L	50.0		97.3	75-125			
n-Propylbenzene	51.0	1.0	0.13	ug/L	50.0		102	75.8-125			
Toluene	51.3	1.0	0.21	ug/L	50.0		103	80-120			
Trichloroethene	52.6	1.0	0.20	ug/L	50.0		105	80-120			
Vinyl chloride	51.7	1.0	0.087	ug/L	50.0		103	75-130			
Surrogate: 4-Bromofluorobenzene	*63.8*			*ug/L*	*55.0*		*116*	*80-121*			
Surrogate: Dibromofluoromethane	*57.5*			*ug/L*	*55.0*		*105*	*79.9-121*			
Surrogate: Toluene-d8	*56.9*			*ug/L*	*55.0*		*104*	*80-120*			
Matrix Spike (B9J0608-MS1)		**Source: 0904276-01**			Prepared: 10/06/09		Analyzed: 10/07/09				
1,1,2,2-Tetrachloroethane	49.8	1.0	0.13	ug/L	50.0	<1.0	99.6	76.8-125			
1,1-Dichloroethane	51.2	1.0	0.11	ug/L	50.0	<1.0	102	80-125			
1,1-Dichloroethene	55.2	1.0	0.12	ug/L	50.0	<1.0	110	80-125			
1,3,5-Trimethylbenzene	49.3	1.0	0.18	ug/L	50.0	<1.0	98.6	75-125			
1,4-Dichlorobenzene	47.1	1.0	0.17	ug/L	50.0	<1.0	94.2	75-125			
2-Chlorotoluene	47.6	1.0	0.17	ug/L	50.0	<1.0	95.3	75-125			
Benzene	52.3	1.0	0.093	ug/L	50.0	<1.0	105	80-120			
Bromoform	50.6	5.0	0.50	ug/L	50.0	<5.0	101	80-120			
Chlorobenzene	49.6	1.0	0.15	ug/L	50.0	<1.0	99.3	80-120			
Chloroform	50.3	1.0	0.19	ug/L	50.0	<1.0	101	79.8-125			
Ethylbenzene	52.6	1.0	0.21	ug/L	50.0	<1.0	105	80-120			
n-Butylbenzene	49.0	2.5	0.32	ug/L	50.0	<2.5	98.1	75-130			
n-Propylbenzene	49.8	1.0	0.13	ug/L	50.0	<1.0	99.6	75-125			
Toluene	50.6	1.0	0.21	ug/L	50.0	<1.0	101	80-120			
Trichloroethene	51.6	1.0	0.20	ug/L	50.0	<1.0	103	80-120			
Vinyl chloride	51.6	1.0	0.087	ug/L	50.0	<1.0	103	75-130			
Surrogate: 4-Bromofluorobenzene	*63.0*			*ug/L*	*55.0*		*114*	*80-121*			
Surrogate: Dibromofluoromethane	*56.2*			*ug/L*	*55.0*		*102*	*79.9-121*			
Surrogate: Toluene-d8	*57.3*			*ug/L*	*55.0*		*104*	*80-120*			
Matrix Spike Dup (B9J0608-MSD1)		**Source: 0904276-01**			Prepared: 10/06/09		Analyzed: 10/07/09				
1,1,2,2-Tetrachloroethane	49.9	1.0	0.13	ug/L	50.0	<1.0	99.7	76.8-125	0.151	20	
1,1-Dichloroethane	52.2	1.0	0.11	ug/L	50.0	<1.0	104	80-125	2.01	20	
1,1-Dichloroethene	55.4	1.0	0.12	ug/L	50.0	<1.0	111	80-125	0.312	20	
1,3,5-Trimethylbenzene	50.3	1.0	0.18	ug/L	50.0	<1.0	101	75-125	1.99	20	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904320
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/16/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9J0608 - EPA 5030 Water (Purge and Trap)											
Matrix Spike Dup (B9J0608-MSD1)		**Source: 0904276-01**			Prepared: 10/06/09		Analyzed: 10/07/09				
1,4-Dichlorobenzene	48.8	1.0	0.17	ug/L	50.0	<1.0	97.5	75-125	3.48	20	
2-Chlorotoluene	49.4	1.0	0.17	ug/L	50.0	<1.0	98.7	75-125	3.56	20	
Benzene	52.6	1.0	0.093	ug/L	50.0	<1.0	105	80-120	0.531	20	
Bromoform	47.9	5.0	0.50	ug/L	50.0	<5.0	95.8	80-120	5.46	20	
Chlorobenzene	48.4	1.0	0.15	ug/L	50.0	<1.0	96.9	80-120	2.45	20	
Chloroform	50.3	1.0	0.19	ug/L	50.0	<1.0	101	79.8-125	0.00716	20	
Ethylbenzene	50.5	1.0	0.21	ug/L	50.0	<1.0	101	80-120	4.09	20	
n-Butylbenzene	50.1	2.5	0.32	ug/L	50.0	<2.5	100	75-130	2.11	20	
n-Propylbenzene	50.5	1.0	0.13	ug/L	50.0	<1.0	101	75-125	1.47	20	
Toluene	51.3	1.0	0.21	ug/L	50.0	<1.0	103	80-120	1.22	20	
Trichloroethene	52.5	1.0	0.20	ug/L	50.0	<1.0	105	80-120	1.75	20	
Vinyl chloride	52.8	1.0	0.087	ug/L	50.0	<1.0	106	75-130	2.26	20	
Surrogate: 4-Bromofluorobenzene	*62.9*			*ug/L*	*55.0*		*114*	*80-121*			
Surrogate: Dibromofluoromethane	*55.3*			*ug/L*	*55.0*		*100*	*79.9-121*			
Surrogate: Toluene-d8	*56.9*			*ug/L*	*55.0*		*104*	*80-120*			

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904320
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	10/16/09

Notes and Definitions

QM-10	LCS/LCSD were analyzed in place of MS/MSD.
Q9	Insufficient sample received to meet method QC requirements.
M2	Matrix spike recovery was low, the associated blank spike recovery was acceptable.
J	Parameter was present between the MDL and RL and should be considered an estimated value
B-02	Target analyte was present in the method blank between the MDL and RL.
<	Less than value listed
dry	Sample results reported on a dry weight basis
NA	Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL	Method Detection Limit
RL	Reporting Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
MS	Matrix Spike = Laboratory Fortified Matrix (LFM)

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0904320

Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number: 23/19-0B05 S1 R1 300

Project Name

№ 27902

COC ____ of ____

Project Manager: JME

Project Contact: KJN

Sampled by: KSJ

Laboratory: Legend

	Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Volatile Organics (Pres.) *1	Semivolatile Organics *2	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	General (Unpreserved) *3	Cyanide (NaOH)	Nutrients (H_2SO_4) *4	Oil and Grease (H_2SO_4)	Sulfide (Zn Acetate)	Methane	Bacteria ($Na_2S_2O_3$)	DRO (HCl)	VOCs (2-oz tared MeOH) *1	GRO, BTEX (2-oz tared MeOH) *1	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.) *2	% Moisture (plastic vial, unpres.)	Total No. Of Containers	Remarks:
01	1. WSW-207605	9/29/09	1155	✓		✓			3	1		2															6	Table 1, VOC's, SVOC's Metals
02	2. MW-D3-007	↓	1530	✓		✓					1																1	Metals
03	3. MW-E2-305	↓	1735	✓		✓					1																1	↓
04	4. MW-E2-009	9/30/09	1305	✓		✓					1																1	↓
05	5. M-1	10/2/09		✓		✓		✓			1																1	↓
06	6. FB-1	9/29/09	1820	✓				✓			1																1	↓
07	7. MW-E2-012	10/2/09	1140	✓		✓					1																1	↓
	8.																											
	9.																											
	10.																											
	11.																											
	12.																											

Common Parameter/Container - Preservation Key

*1 - *Volatile Organics = BTEX, GRO, TPH, Full List*
*2 - *Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs*
*3 - *General = pH, Chloride, Floride, Alkalinity, TSS, TDS, TS, Sulfate*
*4 - *Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN*

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
[signature]	Y N	10/2/09				
Relinquished By:	On Ice? Y N	Date	Time	Received by: [signature]	Date 10/2/09	Time 16:00

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☒ Sampler ☐ Other ____

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

4.C

H:\RLG\STDFORMS\Chain Of Custody Form RLG Rev. 070126

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November 17, 2009

REVISION

Ms. Kelly Neppl
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0904748
RE: 23190B05.07

This is a revised report. The details of the revision are listed in the case narrative on the following page.

Enclosed are the results of analyses for samples received by the laboratory on 11/10/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of the original report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

Terri Olson
Client Manager II
tolson@legend-group.com

Barb Rutten
Report Reviewer
brutten@legend-group.com

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LEGEND Technical Services, Inc.
www.legend-group.com

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904748
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	11/17/09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC5-SS2C	0904748-01	Soil	11/10/09 12:30	11/10/09 14:55
SOC5-SS2D	0904748-02	Soil	11/10/09 12:45	11/10/09 14:55
SOC5-SS2E	0904748-03	Soil	11/10/09 13:00	11/10/09 14:55
SOC5-SS2F	0904748-04	Soil	11/10/09 13:30	11/10/09 14:55
SOC5-SS2G	0904748-05	Soil	11/10/09 13:45	11/10/09 14:55
SOC5-SS2H	0904748-06	Soil	11/10/09 14:00	11/10/09 14:55
SOC5-SS2I	0904748-07	Soil	11/10/09 14:15	11/10/09 14:55
SOC5-SS2B	0904748-08	Soil	11/10/09 14:30	11/10/09 14:55
M-1	0904748-09	Soil	11/10/09 00:00	11/10/09 14:55

Shipping Container Information

Default Cooler Temperature (°C): 4.3

Received on ice: Yes
Received on melt water: No
Custody seals: No

Temperature blank was present
Ambient: No

Received on ice pack: No
Acceptable (IH/ISO only): No

Case Narrative:

At the client's request, this report was revised on November 17, 2009 to change the identification of sample SOC5-SS2 to SOC5-SS2B.

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UMP019652

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88 Empire Drive
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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904748
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	11/17/09

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS2C (0904748-01) Soil Sampled: 11/10/09 12:30 Received: 11/10/09 14:55										
Mercury	<0.12	0.12	0.0051	mg/kg dry	1	B9K1104	11/11/09	11/11/09	EPA 7471A	
SOC5-SS2D (0904748-02) Soil Sampled: 11/10/09 12:45 Received: 11/10/09 14:55										
Mercury	<0.13	0.13	0.0054	mg/kg dry	1	B9K1104	11/11/09	11/11/09	EPA 7471A	
SOC5-SS2E (0904748-03) Soil Sampled: 11/10/09 13:00 Received: 11/10/09 14:55										
Mercury	<0.12	0.12	0.0051	mg/kg dry	1	B9K1104	11/11/09	11/11/09	EPA 7471A	
SOC5-SS2F (0904748-04) Soil Sampled: 11/10/09 13:30 Received: 11/10/09 14:55										
Mercury	<0.11	0.11	0.0046	mg/kg dry	1	B9K1104	11/11/09	11/11/09	EPA 7471A	
SOC5-SS2G (0904748-05) Soil Sampled: 11/10/09 13:45 Received: 11/10/09 14:55										
Mercury	<0.13	0.13	0.0055	mg/kg dry	1	B9K1104	11/11/09	11/11/09	EPA 7471A	
SOC5-SS2H (0904748-06) Soil Sampled: 11/10/09 14:00 Received: 11/10/09 14:55										
Mercury	**0.17**	0.12	0.0052	mg/kg dry	1	B9K1104	11/11/09	11/11/09	EPA 7471A	
SOC5-SS2I (0904748-07) Soil Sampled: 11/10/09 14:15 Received: 11/10/09 14:55										
Mercury	<0.11	0.11	0.0048	mg/kg dry	1	B9K1104	11/11/09	11/11/09	EPA 7471A	
SOC5-SS2B (0904748-08) Soil Sampled: 11/10/09 14:30 Received: 11/10/09 14:55										
Mercury	**3.0**	1.2	0.051	mg/kg dry	10	B9K1104	11/11/09	11/11/09	EPA 7471A	
M-1 (0904748-09) Soil Sampled: 11/10/09 00:00 Received: 11/10/09 14:55										
Mercury	<0.11	0.11	0.0048	mg/kg dry	1	B9K1104	11/11/09	11/11/09	EPA 7471A	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904748
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	11/17/09

PERCENT SOLIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS2C (0904748-01) Soil Sampled: 11/10/09 12:30 Received: 11/10/09 14:55										
% Solids	**82**			%	1	B9K1107	11/11/09	11/12/09	% calculation	
SOC5-SS2D (0904748-02) Soil Sampled: 11/10/09 12:45 Received: 11/10/09 14:55										
% Solids	**78**			%	1	B9K1107	11/11/09	11/12/09	% calculation	
SOC5-SS2E (0904748-03) Soil Sampled: 11/10/09 13:00 Received: 11/10/09 14:55										
% Solids	**82**			%	1	B9K1107	11/11/09	11/12/09	% calculation	
SOC5-SS2F (0904748-04) Soil Sampled: 11/10/09 13:30 Received: 11/10/09 14:55										
% Solids	**91**			%	1	B9K1107	11/11/09	11/12/09	% calculation	
SOC5-SS2G (0904748-05) Soil Sampled: 11/10/09 13:45 Received: 11/10/09 14:55										
% Solids	**77**			%	1	B9K1107	11/11/09	11/12/09	% calculation	
SOC5-SS2H (0904748-06) Soil Sampled: 11/10/09 14:00 Received: 11/10/09 14:55										
% Solids	**80**			%	1	B9K1107	11/11/09	11/12/09	% calculation	
SOC5-SS2I (0904748-07) Soil Sampled: 11/10/09 14:15 Received: 11/10/09 14:55										
% Solids	**88**			%	1	B9K1107	11/11/09	11/12/09	% calculation	
SOC5-SS2B (0904748-08) Soil Sampled: 11/10/09 14:30 Received: 11/10/09 14:55										
% Solids	**83**			%	1	B9K1107	11/11/09	11/12/09	% calculation	
M-1 (0904748-09) Soil Sampled: 11/10/09 00:00 Received: 11/10/09 14:55										
% Solids	**88**			%	1	B9K1107	11/11/09	11/12/09	% calculation	

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88 Empire Drive
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Tel: 651-642-1150
Fax: 651-642-1239

Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904748
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	11/17/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9K1104 - EPA 7471A											
Blank (B9K1104-BLK1)					Prepared & Analyzed: 11/11/09						
Mercury	< 0.10	0.10	0.0042	mg/kg wet							
LCS (B9K1104-BS1)					Prepared & Analyzed: 11/11/09						
Mercury	0.212	0.10	0.0042	mg/kg wet	0.200		106	80-120			
LCS Dup (B9K1104-BSD1)					Prepared & Analyzed: 11/11/09						
Mercury	0.189	0.10	0.0042	mg/kg wet	0.200		94.5	80-120	11.5	20	
Matrix Spike (B9K1104-MS1)		**Source: 0904748-01**			Prepared & Analyzed: 11/11/09						
Mercury	0.330	0.12	0.0051	mg/kg dry	0.244	<0.12	105	75-125			
Matrix Spike Dup (B9K1104-MSD1)		**Source: 0904748-01**			Prepared & Analyzed: 11/11/09						
Mercury	0.332	0.12	0.0051	mg/kg dry	0.244	<0.12	105	75-125	0.368	20	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904748
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	11/17/09

PERCENT SOLIDS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9K1107 - General Preparation											
Duplicate (B9K1107-DUP1)		**Source: 0904748-03**			Prepared: 11/11/09		Analyzed: 11/12/09				
% Solids	81.0			%		82.0			1.23	20	
Duplicate (B9K1107-DUP2)		**Source: 0904754-03**			Prepared: 11/11/09		Analyzed: 11/12/09				
% Solids	72.0			%		72.0			0.00	20	

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 300	Work Order #:	0904748
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	11/17/09

Notes and Definitions

<	Less than value listed
dry	Sample results reported on a dry weight basis
NA	Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL	Method Detection Limit
RL	Reporting Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
MS	Matrix Spike = Laboratory Fortified Matrix (LFM)

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UMP019657

LEGEND Technical Services, Inc.
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88 Empire Drive
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Fax: 651-642-1239

Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

0904748

COC 1 of 1

Project Number: 23/19-0805.07 SIRI 300

Project Name: UMore – SSI/RI

Sample Origination State MN (use two letter postal state abbreviation)

COC Number: № 29778

Project Manager: JME/JSA

Project QC Contact: KJN/AAN

Sampled by: KCB/KJN

Laboratory: legend

Number of Containers/Preservative

	Location	Start Depth	Stop Depth	Depth Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Water: VOCs (HCl) #1	Water: SVOCs (unpreserved) #2	Water: Dissolved Metals (HNO_3)	Water: Total Metals (HNO_3)	Water: General (unpreserved) #3	Water: Diesel Range Organics (HCl)	Water: Nutrients (H_2SO_4) #4	Soil: VOCs (tared MeOH) #1	Soil: GRO, BTEX (tared MeOH) #1	Soil: DRO (tared unpreserved)	Soil: Metals (unpreserved)	Soil: SVOCs (unpreserved) #2	Soil: % Solids (plastic vial, unpres.)	Total Number Of Containers	Analyze Mercury
01	1. SOC5-SS2.C	0	0.5	ft	11/10/09	1230		X	X													X	X		2	
02	2. SOC5-SS2D	0	0.5	ft	11/10/09	1245		X	X													X	X		2	
03	3. SOC5-SS2E	0	0.5	ft		1300		X	X													X	X		2	
04	4. SOC5-SS2F	0	0.5	ft		1330		X	X													X	X		2	
05	5. SOC5-SS2G	0	0.5	ft		1345		X	X													X	X		2	
06	6. SOC5-SS2H	0	0.5	ft		1400		X	X													X	X		2	
07	7. SOC5-SS2I	0	0.5	ft		1415		X	X													X	X		2	
08	8. SOC5-SS2	1.5	2	ft		1430		X	X													X	X		2	
09	9. M-1	–	–	–		–		X	X													X	X			RUSH, 3-DAY Mercury TAT
	10.																									

Common Parameter/Container - Preservation Key

- #1 - Volatile Organics = BTEX, GRO, TPH, 8260 Full List
- #2 - Semivolatile Organics = PAHs, PCP, Dioxins, 8270 Full List, Herbicide/Pesticide/PCBs
- #3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
- #4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
[signature]	X N	11/10/09	1455			
Relinquished By:	On Ice? Y N	Date	Time	Received by: [signature]	Date 11/10/09	Time 1455

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other: _____

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

dropped off 4.3°c

H:RLG\STDFORMS\Chain Of Custody Form 2005 RLG Rev. 09/01/09

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December 31, 2009

Ms. Kelly Neppl
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0905284
RE: 23190B05.07

Enclosed are the results of analyses for samples received by the laboratory on 12/23/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of this report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

Terri Olson
Client Manager II
tolson@legend-group.com

Erin Sloan
Report Reviewer
esloan@legend-group.com

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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 700	Work Order #:	0905284
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	12/31/09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC5-SS2B_3-4	0905284-01	Soil	12/23/09 11:45	12/23/09 14:04
SOC5-SS2J_0-1	0905284-02	Soil	12/23/09 10:37	12/23/09 14:04
SOC5-SS2J_2-3	0905284-03	Soil	12/23/09 10:38	12/23/09 14:04
SOC5-SS2K_0-1	0905284-04	Soil	12/23/09 11:26	12/23/09 14:04
SOC5-SS2K_2-3	0905284-05	Soil	12/23/09 11:27	12/23/09 14:04
SOC5-SS2L_0-1	0905284-06	Soil	12/23/09 10:55	12/23/09 14:04
SOC5-SS2M_0-1	0905284-07	Soil	12/23/09 11:00	12/23/09 14:04
SOC5-SS2N_0-1	0905284-08	Soil	12/23/09 09:45	12/23/09 14:04
SOC5-SS2O_0-1	0905284-09	Soil	12/23/09 09:55	12/23/09 14:04
SOC5-SS2O_2-3	0905284-10	Soil	12/23/09 09:56	12/23/09 14:04
SOC5-SS2P_0-1	0905284-11	Soil	12/23/09 10:00	12/23/09 14:04
SOC5-SS2Q_0-2	0905284-12	Soil	12/23/09 09:35	12/23/09 14:04
SOC5-SS2R_0-2	0905284-13	Soil	12/23/09 09:10	12/23/09 14:04
SOC5-SS2T_0-1	0905284-14	Soil	12/23/09 11:40	12/23/09 14:04
SOC5-SS2T_2-3	0905284-15	Soil	12/23/09 11:41	12/23/09 14:04
M-1	0905284-16	Soil	12/23/09 00:00	12/23/09 14:04

Shipping Container Information

Default Cooler Temperature (°C): 1.4

Received on ice: Yes
Received on melt water: No
Custody seals: No

Temperature blank was present
Ambient: No

Received on ice pack: No
Acceptable (IH/ISO only): No

Case Narrative:

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

UMP019660

LEGEND Technical Services, Inc.
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88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 700	Work Order #:	0905284
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	12/31/09

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS2B_3-4 (0905284-01) Soil Sampled: 12/23/09 11:45 Received: 12/23/09 14:04										
Mercury	<0.10	0.10	0.0043	mg/kg dry	1	B9L2907	12/29/09	12/30/09	EPA 7471A	
SOC5-SS2J_0-1 (0905284-02) Soil Sampled: 12/23/09 10:37 Received: 12/23/09 14:04										
Mercury	<0.11	0.11	0.0046	mg/kg dry	1	B9L2907	12/29/09	12/30/09	EPA 7471A	
SOC5-SS2J_2-3 (0905284-03) Soil Sampled: 12/23/09 10:38 Received: 12/23/09 14:04										
Mercury	<0.10	0.10	0.0043	mg/kg dry	1	B9L2907	12/29/09	12/30/09	EPA 7471A	
SOC5-SS2K_0-1 (0905284-04) Soil Sampled: 12/23/09 11:26 Received: 12/23/09 14:04										
Mercury	<0.098	0.098	0.0041	mg/kg dry	1	B9L2907	12/29/09	12/30/09	EPA 7471A	
SOC5-SS2K_2-3 (0905284-05) Soil Sampled: 12/23/09 11:27 Received: 12/23/09 14:04										
Mercury	<0.098	0.098	0.0041	mg/kg dry	1	B9L2907	12/29/09	12/30/09	EPA 7471A	
SOC5-SS2L_0-1 (0905284-06) Soil Sampled: 12/23/09 10:55 Received: 12/23/09 14:04										
Mercury	<0.10	0.10	0.0043	mg/kg dry	1	B9L2907	12/29/09	12/30/09	EPA 7471A	
SOC5-SS2M_0-1 (0905284-07) Soil Sampled: 12/23/09 11:00 Received: 12/23/09 14:04										
Mercury	<0.10	0.10	0.0044	mg/kg dry	1	B9L2907	12/29/09	12/30/09	EPA 7471A	
SOC5-SS2N_0-1 (0905284-08) Soil Sampled: 12/23/09 09:45 Received: 12/23/09 14:04										
Mercury	<0.12	0.12	0.0050	mg/kg dry	1	B9L2907	12/29/09	12/30/09	EPA 7471A	
SOC5-SS2O_0-1 (0905284-09) Soil Sampled: 12/23/09 09:55 Received: 12/23/09 14:04										
Mercury	<0.12	0.12	0.0052	mg/kg dry	1	B9L2907	12/29/09	12/30/09	EPA 7471A	
SOC5-SS2O_2-3 (0905284-10) Soil Sampled: 12/23/09 09:56 Received: 12/23/09 14:04										
Mercury	<0.11	0.11	0.0048	mg/kg dry	1	B9L2907	12/29/09	12/30/09	EPA 7471A	
SOC5-SS2P_0-1 (0905284-11) Soil Sampled: 12/23/09 10:00 Received: 12/23/09 14:04										
Mercury	<0.13	0.13	0.0055	mg/kg dry	1	B9L2907	12/29/09	12/30/09	EPA 7471A	
SOC5-SS2Q_0-2 (0905284-12) Soil Sampled: 12/23/09 09:35 Received: 12/23/09 14:04										
Mercury	<0.10	0.10	0.0044	mg/kg dry	1	B9L2907	12/29/09	12/30/09	EPA 7471A	
SOC5-SS2R_0-2 (0905284-13) Soil Sampled: 12/23/09 09:10 Received: 12/23/09 14:04										
Mercury	<0.13	0.13	0.0055	mg/kg dry	1	B9L2907	12/29/09	12/30/09	EPA 7471A	
SOC5-SS2T_0-1 (0905284-14) Soil Sampled: 12/23/09 11:40 Received: 12/23/09 14:04										
Mercury	<0.11	0.11	0.0045	mg/kg dry	1	B9L2907	12/29/09	12/30/09	EPA 7471A	

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UMP019661

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Tel: 651-642-1150
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Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 700	Work Order #:	0905284
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	12/31/09

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS2T_2-3 (0905284-15) Soil Sampled: 12/23/09 11:41 Received: 12/23/09 14:04										
Mercury	<0.10	0.10	0.0043	mg/kg dry	1	B9L2907	12/29/09	12/30/09	EPA 7471A	
M-1 (0905284-16) Soil Sampled: 12/23/09 00:00 Received: 12/23/09 14:04										
Mercury	<0.10	0.10	0.0043	mg/kg dry	1	B9L2907	12/29/09	12/30/09	EPA 7471A	

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St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

Barr Engineering Co.	Project:	23190B05.07	
4700 W 77th St	Project Number:	23190B05.07 SIRI 700	Work Order #: 0905284
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported: 12/31/09

PERCENT SOLIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS2B_3-4 (0905284-01) Soil Sampled: 12/23/09 11:45 Received: 12/23/09 14:04										
% Solids	**97**			%	1	B9L2812	12/28/09	12/29/09	% calculation	
SOC5-SS2J_0-1 (0905284-02) Soil Sampled: 12/23/09 10:37 Received: 12/23/09 14:04										
% Solids	**85**			%	1	B9L2812	12/28/09	12/29/09	% calculation	
SOC5-SS2J_2-3 (0905284-03) Soil Sampled: 12/23/09 10:38 Received: 12/23/09 14:04										
% Solids	**97**			%	1	B9L2812	12/28/09	12/29/09	% calculation	
SOC5-SS2K_0-1 (0905284-04) Soil Sampled: 12/23/09 11:26 Received: 12/23/09 14:04										
% Solids	**96**			%	1	B9L2812	12/28/09	12/29/09	% calculation	
SOC5-SS2K_2-3 (0905284-05) Soil Sampled: 12/23/09 11:27 Received: 12/23/09 14:04										
% Solids	**96**			%	1	B9L2812	12/28/09	12/29/09	% calculation	
SOC5-SS2L_0-1 (0905284-06) Soil Sampled: 12/23/09 10:55 Received: 12/23/09 14:04										
% Solids	**88**			%	1	B9L2812	12/28/09	12/29/09	% calculation	
SOC5-SS2M_0-1 (0905284-07) Soil Sampled: 12/23/09 11:00 Received: 12/23/09 14:04										
% Solids	**90**			%	1	B9L2812	12/28/09	12/29/09	% calculation	
SOC5-SS2N_0-1 (0905284-08) Soil Sampled: 12/23/09 09:45 Received: 12/23/09 14:04										
% Solids	**84**			%	1	B9L2812	12/28/09	12/29/09	% calculation	
SOC5-SS2O_0-1 (0905284-09) Soil Sampled: 12/23/09 09:55 Received: 12/23/09 14:04										
% Solids	**81**			%	1	B9L2812	12/28/09	12/29/09	% calculation	
SOC5-SS2O_2-3 (0905284-10) Soil Sampled: 12/23/09 09:56 Received: 12/23/09 14:04										
% Solids	**88**			%	1	B9L2812	12/28/09	12/29/09	% calculation	
SOC5-SS2P_0-1 (0905284-11) Soil Sampled: 12/23/09 10:00 Received: 12/23/09 14:04										
% Solids	**76**			%	1	B9L2812	12/28/09	12/29/09	% calculation	
SOC5-SS2Q_0-2 (0905284-12) Soil Sampled: 12/23/09 09:35 Received: 12/23/09 14:04										
% Solids	**87**			%	1	B9L2812	12/28/09	12/29/09	% calculation	
SOC5-SS2R_0-2 (0905284-13) Soil Sampled: 12/23/09 09:10 Received: 12/23/09 14:04										
% Solids	**77**			%	1	B9L2812	12/28/09	12/29/09	% calculation	
SOC5-SS2T_0-1 (0905284-14) Soil Sampled: 12/23/09 11:40 Received: 12/23/09 14:04										
% Solids	**87**			%	1	B9L2812	12/28/09	12/29/09	% calculation	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

UMP019663

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 700	Work Order #:	0905284
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	12/31/09

PERCENT SOLIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC5-SS2T_2-3 (0905284-15) Soil Sampled: 12/23/09 11:41 Received: 12/23/09 14:04										
% Solids	**97**			%	1	B9L2812	12/28/09	12/29/09	% calculation	
M-1 (0905284-16) Soil Sampled: 12/23/09 00:00 Received: 12/23/09 14:04										
% Solids	**97**			%	1	B9L2812	12/28/09	12/29/09	% calculation	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

UMP019664

LEGEND Technical Services, Inc.
www.legend-group.com

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 700	Work Order #:	0905284
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	12/31/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9L2907 - EPA 7471A											
Blank (B9L2907-BLK1)					Prepared: 12/29/09		Analyzed: 12/30/09				
Mercury	< 0.10	0.10	0.0042	mg/kg wet							
LCS (B9L2907-BS1)					Prepared: 12/29/09		Analyzed: 12/30/09				
Mercury	0.175	0.10	0.0042	mg/kg wet	0.200		87.5	80-120			
LCS Dup (B9L2907-BSD1)					Prepared: 12/29/09		Analyzed: 12/30/09				
Mercury	0.193	0.10	0.0042	mg/kg wet	0.200		96.5	80-120	9.78	20	
Matrix Spike (B9L2907-MS1)		**Source: 0905284-01**			Prepared: 12/29/09		Analyzed: 12/30/09				
Mercury	0.219	0.10	0.0043	mg/kg dry	0.206	<0.10	106	75-125			
Matrix Spike Dup (B9L2907-MSD1)		**Source: 0905284-01**			Prepared: 12/29/09		Analyzed: 12/30/09				
Mercury	0.208	0.10	0.0043	mg/kg dry	0.206	<0.10	101	75-125	4.83	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

UMP019665

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 700	Work Order #:	0905284
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	12/31/09

PERCENT SOLIDS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9L2812 - General Preparation											
Duplicate (B9L2812-DUP1)		**Source: 0905284-06**			Prepared: 12/28/09		Analyzed: 12/29/09				
% Solids	89.0			%		88.0			1.13	20	
Duplicate (B9L2812-DUP2)		**Source: 0905284-16**			Prepared: 12/28/09		Analyzed: 12/29/09				
% Solids	97.0			%		97.0			0.00	20	
Duplicate (B9L2812-DUP3)		**Source: 0905285-06**			Prepared: 12/28/09		Analyzed: 12/29/09				
% Solids	85.0			%		86.0			1.17	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

Barr Engineering Co.	Project:	23190B05.07		
4700 W 77th St	Project Number:	23190B05.07 SIRI 700	Work Order #:	0905284
Minneapolis, MN 55435	Project Manager:	Ms. Kelly Neppl	Date Reported:	12/31/09

Notes and Definitions

<	Less than value listed
dry	Sample results reported on a dry weight basis
NA	Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL	Method Detection Limit
RL	Reporting Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
MS	Matrix Spike = Laboratory Fortified Matrix (LFM)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

UMP-019667

LEGEND Technical Services, Inc.
www.legend-group.com

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

09052847

Project Number: 23/19-0B05.07 SIRI 700

Project Name: UMore SSI/RI Mercury follow-up

Sample Origination State MN (use two letter postal state abbreviation)

COC Number: № 32151

COC 1 of 2

Project Manager: JME/JSA

Project QC Contact: KJN/APN

Sampled by: KJN/KCB

Laboratory: Legend

Number of Containers/Preservative — Water: VOCs (HCl) #1; SVOCs (unpreserved) #2; Dissolved Metals (HNO3); Total Metals (HNO3); General (unpreserved) #3; Diesel Range Organics (HCl); Nutrients (H2SO4) #4. Soil: VOCs (tared MeOH) #1; GRO, BTEX (tared MeOH) #1; DRO (tared unpreserved); Metals (unpreserved); SVOCs (unpreserved) #2; % Solids (plastic vial, unpres.)

	Location	Start Depth	Stop Depth	Depth Unit (m/ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Total Number Of Containers	Analyze Mercury
01	1. SOC5-SS#28	3	4	ft	12/23/2009	1145		X	X			2	
02	2. SOC5-SS#2J	0	1	↓	↓	1037		X	X			2	
03	3. SOC5-SS2J	2	3	↓	↓	1038		X	X			2	
04	4. SOC5-SS2K	0	1	↓	↓	1126		X	X			2	
05	5. SOC5-SS2K	2	3	↓	↓	1127		X	X			2	
06	6. SOC5-SS2L	0	1	↓	↓	1055		X	X			2	
07	7. SOC5-SS2M	0	1	↓	↓	1100		X	X			2	
08	8. SOC5-SS2N	0	1	↓	↓	945		X	X			2	
09	9. SOC5-SS2O	0	1	↓	↓	955		X	X			2	
10	10. SOC5-SS2O	2	3	↓	↓	956		X	X			2	

RUSH 5-day TAT

Common Parameter/Container - Preservation Key

#1 - Volatile Organics = BTEX, GRO, TPH, 8260 Full List
#2 - Semivolatile Organics = PAHs, PCP, Dioxins, 8270, Full List, Herbicide/Pesticide/PCBs
#3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
#4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
[illegible]	(Y) N	12/23/09	2:00 PM			
Relinquished By:	On Ice? Y N	Date	Time	Received by: [signature]	Date 12/23/09	Time 4:04

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other: _____

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

1.4°C dropped off

FOLLSTDFORMS\Chain Of Custody Form 2009 Rev. 05/01/09

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LEGEND Technical Services, Inc.
www.legend-group.com

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

0905284

COC 2 of 2

Project Number: 23/19-0B05.07 SIR1 700

UMore Project Name: SSI/RI Mercury Follow-up

Sample Origination State MN (use two letter postal state abbreviation)

COC Number: № 32152

Project Manager: JME/JSA

Project QC Contact: KJN/AAN

Sampled by: KJN/KLB

Laboratory: Legend

	Location	Start Depth	Stop Depth	Depth Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Water: VOCs (HCl) #1	Water: SVOCs (unpreserved) #2	Water: Dissolved Metals (HNO_3)	Water: Total Metals (HNO_3)	Water: General (unpreserved) #3	Water: Diesel Range Organics (HCl)	Water: Nutrients (H_2SO_4) #4	Soil: VOCs (tared MeOH) #1	Soil: GRO, BTEX (tared MeOH) #1	Soil: DRO (tared unpreserved)	Soil: Metals (unpreserved)	Soil: SVOCs (unpreserved) #2	Soil: % Solids (plastic vial, unpres.)	Total Number Of Containers	Analyze Mercury
11	1. SOC5-SS2P	0	1	ft	12/23/2009	1000		X	X													X	X			
12	2. SOC5-SS2Q	0	2			0935		X		X												X	X			
13	3. SOC5-SS2R	0	2			0910		X		X												X	X			
14	4. SOC5-SS2T	0	1			1140		X	X													X	X			
15	5. SOC5-SS2T	2	3			1141		X	X													X	X			
16	6. M-1	–	–	–		–		X	X													X	X			
	7.																									
	8.																									
	9.																									
	10.																									

Number of Containers/Preservative

RUSH 5-day TAT

Common Parameter/Container - Preservation Key

#1 - Volatile Organics = BTEX, GRO, TPH, 8260 Full List
#2 - Semivolatile Organics = PAHs, PCP, Dioxins, 8270 Full List, Herbicide/Pesticide/PCBs
#3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
#4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
KEVIN NAPPL	(Y) N	12/23/09	2:00PM			
Relinquished By:	On Ice? Y N	Date	Time	Received by: [signature]	Date 12/23/09	Time 1409

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other:

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

1.4°C dropped off

K:\LG\STDFORMS\Chain Of Custody Form 2009 RLG Rev 05/01/09

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

INVOICE

LEGEND Technical Services, Inc.
www.legend-group.com

88 Empire Drive St. Paul, MN 55103 651-642-1150
Federal Tax ID#: 41-1698058 Fax: 651-642-1239

INVOICE #: **0905284**
Invoiced On: **12/31/09**
Invoice Due: **02/01/10**

Sold To:
Barr Engineering Co.
Attn: Accounts Payable
4700 W 77th St
Minneapolis, MN 55435

Ship To:
Barr Engineering Co.
Ms. Kelly Neppl
4700 W 77th St
Minneapolis, MN 55435

Client Manager:	Terri Olson	Customer ID:	BARR
Received:	12/23/09	PO Number:	23190B05.07 SIRI 700
Terms:	Net 30 days	Work Order #:	0905284

Test Code	Item/Description	Quantity	Price	Total Price
ENVMET	Hg Total 7470A/7471A	16	$52.50	$840.00
MISC	Solids, Dry Weight	16	$0.00	$0.00

For credit card payments
call 651-221-4073

TOTAL: **$840.00**

Thank You For Your Business

Past due balance subject to a finance charge of 1½% per month or 18% per annum. Please reference invoice # with payment.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

September 30, 2009

TestAmerica Project Number: G9I020226
PO/Contract: 23/19-0B05.07S1R1 300

Kelly Neppl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Dear Ms. Neppl,

This report contains the analytical results for the samples received under chain of custody by TestAmerica on September 2, 2009. These samples are associated with your UMore Park project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4442.

Sincerely,

Karen Sellers

Karen M. Sellers
Project Manager

Table of Contents

TestAmerica West Sacramento Project Number G9I020226

Case Narrative

Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

General Chemistry - Various Methods
Samples: 1, 2, 3, 4, 5, 6
- Sample Data Sheets
- Method Blank Report
- Laboratory QC Reports

Case Narrative

TestAmerica West Sacramento Project Number G9I020226

There are no anomalies associated with this project.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ACCREDITED IN ACCORDANCE WITH nelac

TestAmerica Laboratories West Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	New York*	11666
Arizona	AZ0708	Oregon*	CA 200005
Arkansas	88-0691	Pennsylvania	68-1272
California*	01119CA	South Carolina	87014
Colorado	NA	Texas	T104704399-08-TX
Connecticut	PH-0691	Utah*	QUAN1
Florida*	E87570	Virginia	00178
Georgia	960	Washington	C1281
Hawaii	NA	West Virginia	9930C, 334
Illinois	200060	Wisconsin	998204680
Kansas*	E-10375	NFESC	NA
Louisiana*	30612	USACE	NA
Michigan	9947	USDA Foreign Plant	37-82605
Nevada	CA44	USDA Foreign Soil	P330-09-00055
New Jersey*	CA005	US Fish & Wildlife	LE148388-0
New Mexico	NA	Guam	09-014r

*NELAP accredited. A more detailed parameter list is available upon request. Updated 3/25/2009

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

Sample Summary

TestAmerica West Sacramento Project Number G9I020226

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
LJ7QM	1	SOC5-SS2-0.5'	8/31/2009 09:35 AM	9/2/2009 09:10 AM
LJ7R2	2	SOC5-SS1-0.5'	8/31/2009 10:50 AM	9/2/2009 09:10 AM
LJ7R4	3	SOC5-SS4-0.5'	8/31/2009 11:45 AM	9/2/2009 09:10 AM
LJ7R7	4	SOC5-SS3-0.5'	8/31/2009 01:25 PM	9/2/2009 09:10 AM
LJ7R9	5	SOC5-SS5-0.5'	8/31/2009 03:30 PM	9/2/2009 09:10 AM
LJ7TC	6	SOC5-SS6-0.5'	8/31/2009 03:55 PM	9/2/2009 09:10 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

COC 1 of 1

Project Number: 23/19-0B05,07 SI RI 300

Project Name: UMore UMA-SSI/RI

№ 28802

Project Manager: JME/JSA

Project Contact: KJN/AAN

Sampled by: KJN/KCB

Laboratory: Test America

Number of Containers/Preservative — Water: Volatile Organics (Pres.) *1; Semivolatile Organics *2; Dissolved Metals (HNO_3); Total Metals (HNO_3); General (Unpreserved) *3; Cyanide (NaOH); Nutrients (H_2SO_4) *4; Oil and Grease (H_2SO_4); Sulfide (Zn Acetate); Methane; Bacteria ($Na_2S_2O_3$); DRO (HCl). Soil: VOCs (2-oz tared MeOH) *1; GRO, BTEX (2-oz tared MeOH) *1; DRO (2-oz tared) - 25 grams; Metals (2-oz unpreserved); SVOCs (2 or 4-oz unpres.) *2; % Moisture (plastic vial, unpres.); Nitrocellulose; Total No. Of Containers

Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Volatile Organics (Pres.) *1	Semivolatile Organics *2	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	General (Unpreserved) *3	Cyanide (NaOH)	Nutrients (H_2SO_4) *4	Oil and Grease (H_2SO_4)	Sulfide (Zn Acetate)	Methane	Bacteria ($Na_2S_2O_3$)	DRO (HCl)	VOCs (2-oz tared MeOH) *1	GRO, BTEX (2-oz tared MeOH) *1	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.) *2	% Moisture (plastic vial, unpres.)	Nitrocellulose	Total No. Of Containers	Remarks
1. SOC5-SS2-0.5'	8/31/09	935		X	X																				X	X	2	Analyze Nitrocellulose
2. SOC5-SS1-0.5'		1050		X	X																				X	X	2	
3. SOC5-SS4-0.5'		1145		X	X																				X	X	2	
4. SOC5-SS3-0.5'		1325		X	X																				X	X	2	
5. SOC5-SS5-0.5'		1530		X	X																				X	X	2	
6. SOC5-SS6-0.5'		1555		X	X																				X	X	2	
7.																												
8.																												
9.																												
10.																												
11.																												
12.																												

Common Parameter/Container - Preservation Key

*1 - Volatile Organics = BTEX, GRO, TPH, Full List
*2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
*3 - General = pH, Chloride, Flouride, Alkalinity, TSS, TDS, TS, Sulfate
*4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
[signature]	(Y) N	9/1/09	1645	[signature]	9-1-09	1600
Relinquished By: [signature]	On Ice? Y N	Date 9-1	Time	Received by: [signature]	Date 9/2/09	Time 1000

Samples Shipped VIA ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other _____

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab, Yellow - Field Copy; Pink - Lab Coordinator

TestAmerica West Sacramento (916) 373-5600
H:\RLG\STDFORMS\Chain Of Custody Form RLG Rev 07\01\05
6 of 22

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

LOT RECEIPT CHECKLIST
TestAmerica West Sacramento

CLIENT Barr Eng. PM ps LOG # 60443

LOT# (QUANTIMS ID) G9I020226 QUOTE# 83148 LOCATION W20

		Initials	Date
DATE RECEIVED 9/2/09 TIME RECEIVED 0910		CV	9/2/09
DELIVERED BY	☑ FEDEX ☐ CA OVERNIGHT ☐ CLIENT ☐ AIRBORNE ☐ GOLDENSTATE ☐ DHL ☐ UPS ☐ BAX GLOBAL ☐ GO-GETTERS ☐ TAL COURIER ☐ VALLEY LOGISTICS ☐ MORGAN HILL COURIER ☐ OTHER		
CUSTODY SEAL STATUS	☐ INTACT ☐ BROKEN ☑ N/A		
CUSTODY SEAL #(S)			
SHIPPPING CONTAINER(S)	☑ TAL ☐ CLIENT ☐ N/A		
TEMPERTURE RECORD (IN °C)	IR 4 ☐ 5 ☑ ☐ OTHER		
COC #(S)	28802		
TEMPERATURE BLANK	Observed: 0 Corrected: 2		
SAMPLE TEMPERATURE	Observed: 3 3 1 Average: 2 Corrected Average: 2		
COLLECTOR'S NAME:	☑ Verified from COC ☐ Not on COC		
pH MEASURED	☐ YES ☐ ANOMALY ☑ N/A		
LABELED BY			
LABELS CHECKED BY			
PEER REVIEW	☑ NA		
SHORT HOLD TEST NOTIFICATION	SAMPLE RECEIVING		
	WETCHEM ☑ N/A		
	VOA-ENCORES ☑ N/A		
☐ METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL	☑ N/A		
☑ COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES	☐ N/A		
☐ CLOUSEAU	☐ TEMPERATURE EXCEEDED (2 °C – 6 °C)*1 ☑ N/A		

☐ WET ICE ☐ BLUE ICE ☐ GEL PACK ☐ NO COOLING AGENTS USED ☐ PM NOTIFIED

Notes:

*1 Acceptable temperature range for State of Wisconsin samples is≤4°C

TestAmerica West Sacramento

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Bottle Lot Inventory

Lot ID: G9I020226

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*																				
VOAh*																				
AGB																				
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
____AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
____CGJ																				
500CGJ																				
250CGJ																				
125CGJ	2	2	2	2	2	2														
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
_____"CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

h = hydrochloric acid **s** = sulfuric acid **na** = sodium hydroxide **n** = nitric acid **zn** = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

QA-185 4/09 RKE

LEAVE NO SPACES BLANK USE "NA" IF NOT APPLICABLE

General Chemistry - Various Methods

Barr Engineering Company

Client Sample ID: SOC5-SS2-0.5'

General Chemistry

Lot-Sample #...: G9I020226-001 Work Order #...: LJ7QM Matrix.....: SOLID
Date Sampled...: 08/31/09 Date Received..: 09/02/09
% Moisture.....: 20

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	6.2	mg/kg	MCAWW 353.2	09/24-09/25/09	9267300
		Dilution Factor: 1				
Percent Moisture	19.7	0.10	%	ASTM D 2216-90	09/29-09/30/09	9272510
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight

Barr Engineering Company

Client Sample ID: SOC5-SS1-0.5'

General Chemistry

Lot-Sample #...: G9I020226-002 Work Order #...: LJ7R2 Matrix.....: SOLID
Date Sampled...: 08/31/09 Date Received..: 09/02/09
% Moisture.....: 20

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	6.3	mg/kg	MCAWW 353.2	09/24-09/25/09	9267300
		Dilution Factor: 1				
Percent Moisture	20.0	0.10	%	ASTM D 2216-90	09/29-09/30/09	9272510
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight

Barr Engineering Company

Client Sample ID: SOC5-SS4-0.5'

General Chemistry

Lot-Sample #...: G9I020226-003 Work Order #...: LJ7R4 Matrix.....: SOLID
Date Sampled...: 08/31/09 Date Received..: 09/02/09
% Moisture.....: 20

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	6.3	mg/kg	MCAWW 353.2	09/24-09/25/09	9267300
		Dilution Factor: 1				
Percent Moisture	20.2	0.10	%	ASTM D 2216-90	09/29-09/30/09	9272510
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight

Barr Engineering Company

Client Sample ID: SOC5-SS3-0.5'

General Chemistry

Lot-Sample #...: G9I020226-004 Work Order #...: LJ7R7 Matrix.....: SOLID
Date Sampled...: 08/31/09 Date Received..: 09/02/09
% Moisture.....: 20

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	6.3	mg/kg	MCAWW 353.2	09/24-09/25/09	9267300
		Dilution Factor: 1				
Percent Moisture	20.2	0.10	%	ASTM D 2216-90	09/29-09/30/09	9272510
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight

Barr Engineering Company

Client Sample ID: SOC5-SS5-0.5'

General Chemistry

Lot-Sample #...: G9I020226-005 Work Order #...: LJ7R9 Matrix.....: SOLID
Date Sampled...: 08/31/09 Date Received..: 09/02/09
% Moisture.....: 22

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	6.4	mg/kg	MCAWW 353.2	09/24-09/25/09	9267300
		Dilution Factor: 1				
Percent Moisture	22.4	0.10	%	ASTM D 2216-90	09/29-09/30/09	9272510
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight

Barr Engineering Company

Client Sample ID: SOC5-SS6-0.5'

General Chemistry

Lot-Sample #...: G9I020226-006 Work Order #...: LJ7TC Matrix.....: SOLID
Date Sampled...: 08/31/09 Date Received..: 09/02/09
% Moisture.....: 17

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	6.1	mg/kg	MCAWW 353.2	09/24-09/25/09	9267300
		Dilution Factor: 1				
Percent Moisture	17.4	0.10	%	ASTM D 2216-90	09/29-09/30/09	9272510
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight

QC DATA ASSOCIATION SUMMARY

G9I020226

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	ASTM D 2216-90		9272510	9273136
	SOLID	MCAWW 353.2		9267300	9267178
002	SOLID	ASTM D 2216-90		9272510	9273136
	SOLID	MCAWW 353.2		9267300	9267178
003	SOLID	ASTM D 2216-90		9272510	9273136
	SOLID	MCAWW 353.2		9267300	9267178
004	SOLID	ASTM D 2216-90		9272510	9273136
	SOLID	MCAWW 353.2		9267300	9267178
005	SOLID	ASTM D 2216-90		9272510	9273136
	SOLID	MCAWW 353.2		9267300	9267178
006	SOLID	ASTM D 2216-90		9272510	9273136
	SOLID	MCAWW 353.2		9267300	9267178

METHOD BLANK REPORT

General Chemistry

Client Lot #...: G9I020226 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LLEC21AA		MB Lot-Sample #:	G9I240000-300	
	ND	5.0	mg/kg	MCAWW 353.2	09/24-09/25/09	9267300
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I020226 Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LLEC21AC	LCS Lot-Sample#: G9I240000-300		
	73	(34 - 115)	MCAWW 353.2	09/24-09/25/09	9267300
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9I020226 Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose			Work Order #: LLEC21AC LCS Lot-Sample#: G9I240000-300				
	50.7	36.9	mg/kg	73	MCAWW 353.2	09/24-09/25/09	9267300
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I020226 Matrix.....: SOLID
Date Sampled...: 09/01/09 Date Received..: 09/03/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
						% Moisture.....: 19	
Nitrocellulose		WO#: LKEVH1AC-MS/LKEVH1AD-MSD				MS Lot-Sample #: G9I050179-001	
	65	(34 - 115)			MCAWW 353.2	09/24-09/25/09	9267300
	57	(34 - 115)	11	(0-71)	MCAWW 353.2	09/24-09/25/09	9267300
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

Results and reporting limits have been adjusted for dry weight

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9I020226 Matrix.....: SOLID
Date Sampled...: 09/01/09 Date Received..: 09/03/09

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
							% Moisture.....: 19		
Nitrocellulose			WO#: LKEVH1AC-MS/LKEVH1AD-MSD				MS Lot-Sample #: G9I050179-001		
	ND	62.0	43.1	mg/kg	65		MCAWW 353.2	09/24-09/25/09	9267300
	ND	62.8	38.5	mg/kg	57	11	MCAWW 353.2	09/24-09/25/09	9267300
			Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

Results and reporting limits have been adjusted for dry weight

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I020226 **Work Order #...:** LJ7QM-SMP LJ7QM-DUP **Matrix.....:** SOLID

Date Sampled...: 08/31/09 **Date Received..:** 09/02/09

% Moisture.....: 20

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture						SD Lot-Sample #:	G9I020226-001	
	19.7	18.3	%	7.3	(0-20)	ASTM D 2216-90	09/29-09/30/09	9272510

Dilution Factor: 1

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

September 30, 2009

TestAmerica Project Number: G9I050179
PO/Contract: 23/19-OB0507S1R1300

Kelly Neppl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Dear Ms. Neppl,

This report contains the analytical results for the samples received under chain of custody by TestAmerica on September 3, 2009. These samples are associated with your UMore Park project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4442.

Sincerely,

Karen Sellers

Karen M. Sellers
Project Manager

Table of Contents

TestAmerica West Sacramento Project Number G9I050179

Case Narrative

Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

General Chemistry - Various Methods
Samples: 1, 2
- Sample Data Sheet
- Method Blank Report
- Laboratory QC Reports

Case Narrative

TestAmerica West Sacramento Project Number G9I050179

WATER, 353.2, Nitrocellulose as N
Sample: 2
The matrix spike duplicate (MSD) associated with this extraction batch has a recovery and precision outside the established control limits for Nitrocellulose. The MSD sample was spilled in the extraction area and approximately ½ the sample was lost. Acceptable laboratory control sample (LCS) data demonstrate that the analytical system is in control.

There were no other anomalies associated with this project.

TestAmerica Laboratories West Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	New York*	11666
Arizona	AZ0708	Oregon*	CA 200005
Arkansas	88-0691	Pennsylvania	68-1272
California*	01119CA	South Carolina	87014
Colorado	NA	Texas	T104704399-08-TX
Connecticut	PH-0691	Utah*	QUAN1
Florida*	E87570	Virginia	00178
Georgia	960	Washington	C1281
Hawaii	NA	West Virginia	9930C, 334
Illinois	200060	Wisconsin	998204680
Kansas*	E-10375	NFESC	NA
Louisiana*	30612	USACE	NA
Michigan	9947	USDA Foreign Plant	37-82605
Nevada	CA44	USDA Foreign Soil	P330-09-00055
New Jersey*	CA005	US Fish & Wildlife	LE148388-0
New Mexico	NA	Guam	09-014r

*NELAP accredited. A more detailed parameter list is available upon request. Updated 3/25/2009

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

Sample Summary

TestAmerica West Sacramento Project Number G9I050179

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
LKEVH	1	SOC5-SS9-0.5'	9/1/2009 08:50 AM	9/3/2009 09:30 AM
LKEVR	2	FB-1	9/1/2009 10:30 AM	9/3/2009 09:30 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

UMP019698

Chain of Custody

BARR

4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

COC 1 of 1

Project Manager: JSA/JME

Project Contact: KJN/AAN

Sampled by: KCB

Laboratory: Test America

Project Number: 23/19-0B05.07 S1 R 1300

Project Name: UMA-SSI/RI

№ 28811

Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil	Matrix:	Type: Grab	Type: Comp.	Type: QC	Volatile Organics (Pres.) *1	Semivolatile Organics *2	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	General (Unpreserved) *3	Cyanide (NaOH)	Nutrients (H_2SO_4) *4	Oil and Grease (H_2SO_4)	Sulfide (Zn Acetate)	Methane	Bacteria ($Na_2S_2O_3$)	DRO (HCl)	Nitrocellulose		VOCs (2-oz tared MeOH) *1	GRO, BTEX (2-oz tared MeOH) *1	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.) *2	% Moisture (plastic vial, unpres)	Nitrocellulose		Total No. Of Containers	Remarks
1. SOC5-SS9-0.5'	9/1/09	850		X		X																							X		4	Analyze Nitrocellulose (MS/MSD vol included)
2. FB-1	↓	1030	X			X		X													X										1	Analyze Nitrocellulose
3.																																
4.																																
5.																																
6.																																
7.																																
8.																																
9.																																
10.																																
11.																																
12.																																

Number of Containers/Preservative — Water / Soil

Common Parameter/Container - Preservation Key

*1 - Volatile Organics = BTEX, GRO, TPH, Full List
*2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
*3 - General = pH, Chloride, Flouride, Alkalinity, TSS, TDS, TS, Sulfate
*4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice? Y N	Date	Time	Received by:	Date	Time
[signature]	Y	9/2/09	630	[signature]	9-3-09	
Relinquished By: [signature]	On Ice? Y N	Date 9-3-09	Time	Received by: [signature]	Date 9-4-09	Time 1400

Samples Shipped VIA ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy, Pink - Lab Coordinator

TestAmerica West Sacramento (916) 373-5600
H:\RLG\STDFORMS\Chain Of Custody Form RLG Rev 07\01\05
UMP019699

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

LOT RECEIPT CHECKLIST
TestAmerica West Sacramento

CLIENT Legend // TAC - Minnesota BARR PM KS LOG # 68461

LOT# (QUANTIMS ID) G9I050179 QUOTE# 83148 LOCATION W17B

		Initials	Date
DATE RECEIVED 9-3-09 TIME RECEIVED 930		CH	9-3-09
DELIVERED BY	☑ FEDEX ☐ CA OVERNIGHT ☐ CLIENT ☐ AIRBORNE ☐ GOLDENSTATE ☐ DHL ☐ UPS ☐ BAX GLOBAL ☐ GO-GETTERS ☐ TAL COURIER ☐ VALLEY LOGISTICS ☐ MORGAN HILL COURIER ☐ OTHER		
CUSTODY SEAL STATUS	☐ INTACT ☐ BROKEN ☑ N/A		
CUSTODY SEAL #(S)			
SHIPPPING CONTAINER(S)	☐ TAL ☑ CLIENT ☐ N/A		
TEMPERTURE RECORD (IN °C)	IR 4 ☐ 5 ☑ ☐ OTHER		
COC #(S)	N/A		
TEMPERATURE BLANK	Observed 3 Corrected 5		
SAMPLE TEMPERATURE	Observed 3 6 7 Average 5 Corrected Average: 5		
COLLECTOR'S NAME:	☑ Verified from COC ☑ ~~Not on COC~~		
pH MEASURED	☐ YES ☐ ANOMALY ☑ N/A		
LABELED BY			9-5-09
LABELS CHECKED BY			
PEER REVIEW	☑ NA		
SHORT HOLD TEST NOTIFICATION	SAMPLE RECEIVING		
	WETCHEM ☑ N/A		
	VOA-ENCORES ☑ N/A		
☐ METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL	☑ N/A		
☐ COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES	☑ N/A		
☑ CLOUSEAU	☐ TEMPERATURE EXCEEDED (2 °C – 6 °C)*1 ☐ N/A		
☐ WET ICE	☐ BLUE ICE ☐ GEL PACK ☐ NO COOLING AGENTS USED ☑ PM NOTIFIED		

Notes: NO COC - rec'd 9-4-09

*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C.

LEAVE NO SPACES BLANK. USE "N/A" IF NOT APPLICABLE

TestAmerica West Sacramento

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Bottle Lot Inventory

Lot ID: G9I050179

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*																				
VOAh*																				
AGB																				
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
____AGJ																				
500AGJ		1																		
250AGJ																				
125AGJ																				
____CGJ																				
500CGJ																				
250CGJ																				
125CGJ	4																			
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
_____"CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

h = hydrochloric acid **s** = sulfuric acid **na** = sodium hydroxide **n** = nitric acid **zn** = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

QA-185 4/09 RKE

LEAVE NO SPACES BLANK. USE "NA" IF NOT APPLICABLE.

General Chemistry - Various Methods

Barr Engineering Company

Client Sample ID: SOC5-SS9-0.5'

General Chemistry

Lot-Sample #...: G9I050179-001 Work Order #...: LKEVH Matrix.....: SOLID
Date Sampled...: 09/01/09 Date Received..: 09/03/09
% Moisture.....: 19

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	6.2	mg/kg	MCAWW 353.2	09/24-09/25/09	9267300
		Dilution Factor: 1				
Percent Moisture	18.8	0.10	%	ASTM D 2216-90	09/29-09/30/09	9272510
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Barr Engineering Company

Client Sample ID: FB-1

General Chemistry

Lot-Sample #...: G9I050179-002 Work Order #...: LKEVR Matrix.....: WATER
Date Sampled...: 09/01/09 Date Received..: 09/03/09

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	09/25-09/28/09	9268492

Dilution Factor 1

QC DATA ASSOCIATION SUMMARY

G9I050179

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	ASTM D 2216-90		9272510	9273136
	SOLID	MCAWW 353.2		9267300	9267178
002	WATER	MCAWW 353.2		9268492	9268277

METHOD BLANK REPORT

General Chemistry

Client Lot #...: G9I050179 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LLEC21AA		MB Lot-Sample #:	G9I240000-300	
	ND	5.0	mg/kg	MCAWW 353.2	09/24-09/25/09	9267300
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: G9I050179 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LLH5A1AA		MB Lot-Sample #:	G9I250000-492	
	ND	0.50	mg/L	MCAWW 353.2	09/25-09/28/09	9268492
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I050179 Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LLEC21AC	LCS Lot-Sample#: G9I240000-300		
	73	(34 - 115)	MCAWW 353.2	09/24-09/25/09	9267300
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9I050179 Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose			Work Order #:	LLEC21AC	LCS Lot-Sample#:	G9I240000-300	
	50.7	36.9	mg/kg	73	MCAWW 353.2	09/24-09/25/09	9267300
			Dilution Factor	1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I050179 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LLH5A1AC	LCS Lot-Sample#: G9I250000-492		
	77	(26 - 144)	MCAWW 353.2	09/25-09/28/09	9268492

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9I050179 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose			Work Order #: LLH5A1AC LCS Lot-Sample#: G9I25000C-492				
	2.03	1.56	mg/L	77	MCAWW 353.2	09/25-09/28/09	9268492
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I050179 Matrix.....: SOLID
Date Sampled...: 09/01/09 Date Received..: 09/03/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
						% Moisture.....: 19	
Nitrocellulose		WO#: LKEVH1AC-MS/LKEVH1AD-MSD				MS Lot-Sample #: G9I050179-001	
	65	(34 - 115)			MCAWW 353.2	09/24-09/25/09	9267300
	57	(34 - 115)	11	(0-71)	MCAWW 353.2	09/24-09/25/09	9267300
		Dilution Factor. 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

Results and reporting limits have been adjusted for dry weight

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9I050179 Matrix.....: SOLID
Date Sampled...: 09/01/09 Date Received..: 09/03/09

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
							% Moisture.....: 19		
Nitrocellulose			WO#: LKEVH1AC-MS/LKEVH1AD-MSD				MS Lot-Sample #: G9I050179-001		
	ND	62.0	43.1	mg/kg	65		MCAWW 353.2	09/24-09/25/09	9267300
	ND	62.8	38.5	mg/kg	57	11	MCAWW 353.2	09/24-09/25/09	9267300
			Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I050179 Matrix.....: WATER
Date Sampled...: 09/03/09 Date Received..: 09/05/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		WO#:	LKGDT1AD-MS/LKGDT1AE-MSD			MS Lot-Sample #: G9I080183-006	
	60	(26 - 144)			MCAWW 353.2	09/25-09/28/09	9268492
	27 *	(26 - 144)	76	(0-45)	MCAWW 353.2	09/25-09/28/09	9268492

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

* Relative percent difference (RPD) is outside stated control limits

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9I050179 Matrix.....: WATER
Date Sampled...: 09/03/09 Date Received..: 09/05/09

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose			WO#: LKGDT1AD-MS/LKGDT1AE-MSD				MS Lot-Sample #: G9I080183-006		
	ND	2.03	1.22	mg/L	60		MCAWW 353.2	09/25-09/28/09	9268492
	ND	2.03	0.550 *	mg/L	27	76	MCAWW 353.2	09/25-09/28/09	9268492
			Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

* Relative percent difference (RPD) is outside stated control limits

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I050179 Work Order #...: LJ7QM-SMP Matrix.....: SOLID
LJ7QM-DUP
Date Sampled...: 08/31/09 Date Received..: 09/02/09
% Moisture.....: 20

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture						SD Lot-Sample #:	G9I020226-001	
	19.7	18.3	%	7.3	(0-20)	ASTM D 2216-90	09/29-09/30/09	9272510

Dilution Factor: 1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

September 30, 2009

TestAmerica Project Number: G9I050183
PO/Contract: 23/19-B05.07S1R1300

Kelly Neppl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Dear Ms. Neppl,

This report contains the analytical results for the samples received under chain of custody by TestAmerica on September 4, 2009. These samples are associated with your UMore Park project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4442.

Sincerely,

Karen Sellers

Karen M. Sellers
Project Manager

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TestAmerica West Sacramento Project Number G9I050183

Case Narrative

Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

General Chemistry - Various Methods
Samples: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10
- Sample Data Sheets
- Method Blank Reports
- Laboratory QC Reports

Case Narrative

TestAmerica West Sacramento Project Number G9I050183

WATER, 353.2, Nitrocellulose as N
Sample: 9
The matrix spike duplicate (MSD) associated with this extraction batch has a recovery and precision outside the established control limits for Nitrocellulose. The MSD sample was spilled in the extraction area and approximately ½ the sample was lost. Acceptable laboratory control sample (LCS) data demonstrate that the analytical system is in control.

There were no other anomalies associated with this project.

TestAmerica Laboratories West Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	New York*	11666
Arizona	AZ0708	Oregon*	CA 200005
Arkansas	88-0691	Pennsylvania	68-1272
California*	01119CA	South Carolina	87014
Colorado	NA	Texas	T104704399-08-TX
Connecticut	PH-0691	Utah*	QUAN1
Florida*	E87570	Virginia	00178
Georgia	960	Washington	C1281
Hawaii	NA	West Virginia	9930C, 334
Illinois	200060	Wisconsin	998204680
Kansas*	E-10375	NFESC	NA
Louisiana*	30612	USACE	NA
Michigan	9947	USDA Foreign Plant	37-82605
Nevada	CA44	USDA Foreign Soil	P330-09-00055
New Jersey*	CA005	US Fish & Wildlife	LE148388-0
New Mexico	NA	Guam	09-014r

*NELAP accredited. A more detailed parameter list is available upon request. Updated 3/25/2009

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

Sample Summary

TestAmerica West Sacramento Project Number G9I050183

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
LKEWV	1	SOC5-GP6(1-2)	8/31/2009 09:25 AM	9/4/2009 09:50 AM
LKEWW	2	SOC5-GP6(18-20)	8/31/2009 10:45 AM	9/4/2009 09:50 AM
LKEWX	3	SOC5-GP5(1.5-2.5)	8/31/2009 11:30 AM	9/4/2009 09:50 AM
LKEW0	4	SOC5-GP5(10-12)	8/31/2009 12:05 PM	9/4/2009 09:50 AM
LKEW1	5	SOC5-GP7(0.5-2)	8/31/2009 01:15 PM	9/4/2009 09:50 AM
LKEW2	6	SOC5-GP7(19-20)	8/31/2009 01:50 PM	9/4/2009 09:50 AM
LKEW3	7	SOC5-GP8(1-1.5)	8/31/2009 02:30 PM	9/4/2009 09:50 AM
LKEW4	8	SOC5-GP8(5-7)	8/31/2009 03:15 PM	9/4/2009 09:50 AM
LKEW5	9	SOC5-GP4	9/1/2009 09:00 AM	9/4/2009 09:50 AM
LKEW6	10	SOC5-BLD604-NPIPE	9/2/2009 11:00 AM	9/4/2009 09:50 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

G9I050183

Chain of Custody

BARR

4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number: 23/19-B05.07 S1 R1 30.0

Project Name: UMA SS1/R1

№ 23236

COC 1 of 1

Project Manager: JME

Project Contact: KSN

Sampled by: ESC

Laboratory: TestAmerica

Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Water: Volatile Organics (Pres.) *1	Water: Semivolatile Organics *2	Water: Dissolved Metals (HNO_3)	Water: Total Metals (HNO_3)	Water: General (Unpreserved) *3	Water: Cyanide (NaOH)	Water: Nutrients (H_2SO_4) *4	Water: Oil and Grease (H_2SO_4)	Water: Sulfide (Zn Acetate)	Water: Methane	Water: Bacteria ($Na_2S_2O_3$)	Water: DRO (HCl)	Water: Nitrocellulose	Soil: VOCs (2-oz tared MeOH) *1	Soil: GRO, BTEX (2-oz tared MeOH) *1	Soil: DRO (2-oz tared) - 25 grams	Soil: Metals (2-oz unpreserved)	Soil: SVOCs (2 or 4-oz unpres.) *2	Soil: % Moisture (plastic vial, unpres.)	Soil: Nitrocellulose	Total No. Of Containers	Remarks
1. SOCS-GP6(1-2)	8-31-09	0925		X	X															~~2~~							2	2	See attached analyte
2. SOCS-GP6(18-20)	8-31-09	1045		X	X															~~2~~							2	2	list
3. SOCS-GP5(1.5-2.5)	8-31-09	1130		X	X															~~2~~							2	2	
4. SOCS-GP5(~~11-11.5~~ 10-12)	8-31-09	1205		X	X															~~2~~							2	2	
5. SOCS-GP7(0.5-2)	8-31-09	1315		X	X															~~2~~							2	2	
6. SOCS-GP7(19-20)	8-31-09	1350		X	X															~~2~~							2	2	
7. SOCS-GP8(1-1.5)	8-31-09	1430		X	X															~~2~~							2	2	
8. SOCS-GP8(5-7)	8-31-09	1515		X	X															~~2~~							2	2	
9. SOCS-GP4	9-1-09	0900	X		X															1								1	
10.																													
11.																													
12.																													

Common Parameter/Container - Preservation Key

*1 - Volatile Organics = BTEX, GRO, TPH, Full List
*2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
*3 - General = pH, Chloride, Flouride, Alkalinity, TSS, TDS, TS, Sulfate
*4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
[signature]	(Y) N	9/3/09	645	[signature]	9-3-09	1900
Relinquished By: [signature]	On Ice? (Y) N	Date 9-3	Time 1955	Received by: [signature]	Date 9-4-09	Time 1100

Samples Shipped VIA ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

H:\BI\GISTEQRMS\Chain Of Custody Form BLG Rev 070105

TestAmerica West Sacramento (916) 373 - 5600

UMP019722

G9I050

Chain of Custody

BARR

4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

COC 1 of 1

Project Number: 23/19 0B05,07 S1R1 300

Project Name: UMA-SSI/R1

№ 28807

Project Manager: JME/JSA

Project Contact: KJN/AAN

Sampled by: KCB/JME

Laboratory: Test America

Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil	Matrix:	Type: Grab	Type: Comp.	Type: QC	Water: Volatile Organics (Pres.) *1	Water: Semivolatile Organics *2	Water: Dissolved Metals (HNO_3)	Water: Total Metals (HNO_3)	Water: General (Unpreserved) *3	Water: Cyanide (NaOH)	Water: Nutrients (H_2SO_4) *4	Water: Oil and Grease (H_2SO_4)	Water: Sulfide (Zn Acetate)	Water: Methane	Water: Bacteria ($Na_2S_2O_3$)	Water: DRO (HCl)	Soil: VOCs (2-oz tared MeOH) *1	Soil: GRO, BTEX (2-oz tared MeOH) *1	Soil: DRO (2-oz tared) - 25 grams	Soil: Metals (2-oz unpreserved)	Soil: SVOCs (2 or 4-oz unpres.) *2	Soil: % Moisture (plastic vial, unpres.)	Soil: Nitrocellulose	Total No. Of Containers	Remarks
1. SOCS-bld 604-NPipe	9/2/09	1100		X	X	X																					X	1	Analyze Nitrocellulose
2.																													
3.																													
4.																													
5.																													
6.																													
7.																													
8.																													
9.																													
10.																													
11.																													
12.																													

Common Parameter/Container - Preservation Key

*1 - Volatile Organics = BTEX, GRO, TPH, Full List
*2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
*3 - General = pH, Chloride, Flouride, Alkalinity, TSS, TDS, TS, Sulfate
*4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice? Y N	Date	Time	Received by:	Date	Time
[signature]	Y	9/2/09	645	[signature]	9-3	1700
Relinquished By: [signature]	On Ice? Y N	Date 9-3	Time 1855	Received by: [signature]	Date 9-4-09	Time 1400

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

LOT RECEIPT CHECKLIST
TestAmerica West Sacramento

CLIENT BAPR PM KS LOG # 60497

LOT# (QUANTIMS ID) G9I050183 QUOTE# 83148 LOCATION WLD

		Initials	Date
DATE RECEIVED 9-4-09 TIME RECEIVED 950		AL	9-4-09
DELIVERED BY	☑ FEDEX ☐ CA OVERNIGHT ☐ CLIENT ☐ AIRBORNE ☐ GOLDENSTATE ☐ DHL ☐ UPS ☐ BAX GLOBAL ☐ GO-GETTERS ☐ TAL COURIER ☐ VALLEY LOGISTICS ☐ MORGAN HILL COURIER ☐ OTHER		
CUSTODY SEAL STATUS	☐ INTACT ☐ BROKEN ☑ N/A		
CUSTODY SEAL #(S)			
SHIPPPING CONTAINER(S)	☐ TAL ☑ CLIENT ☐ N/A		
TEMPERTURE RECORD (IN °C)	IR 4 ☐ 5 ☑ ☐ OTHER		
COC #(S)			
TEMPERATURE BLANK	Observed: NA Corrected:		
SAMPLE TEMPERATURE Observed: 5 6 8	Average: 6 Corrected Average: 6		
COLLECTOR'S NAME	☑ Verified from COC ☐ Not on COC		
pH MEASURED	☐ YES ☐ ANOMALY ☑ N/A		
LABELED BY		L	9-5-09
LABELS CHECKED BY			
PEER REVIEW	☑ N/A		
SHORT HOLD TEST NOTIFICATION	SAMPLE RECEIVING		
	WETCHEM ☑ N/A		
	VOA-ENCORES ☑ N/A		
☐ METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL	☑ N/A		
☑ COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES	☐ N/A		
☐ CLOUSEAU	☐ TEMPERATURE EXCEEDED (2 °C – 6 °C)*1 ☑ N/A		

☐ WET ICE ☐ BLUE ICE ☐ GEL PACK ☐ NO COOLING AGENTS USED ☐ PM NOTIFIED

Notes:

*1 Acceptable temperature range for State of Wisconsin samples is≤4°C

LEAVE NO SPACES BLANK. USE "N/A" IF NOT APPLICABLE.

TestAmerica West Sacramento

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Bottle Lot Inventory

Lot ID: G9i050183

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*																				
VOAh*																				
AGB																				
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB									1											
____AGJ																				
500AGJ																				
250AGJ																				
125AGJ	2	2	2	2	2	2	2	2		1										
____CGJ																				
500CGJ																				
250CGJ																				
125CGJ																				
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
_____"CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

h = hydrochloric acid **s** = sulfuric acid **na** = sodium hydroxide **n** = nitric acid **zn** = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

QA-185 4/09 RKE

LEAVE NO SPACES BLANK USE "NA" IF NOT APPLICABLE.

General Chemistry - Various Methods

Barr Engineering Company

Client Sample ID: SOC5-GP6(1-2)

General Chemistry

Lot-Sample #...: G9I050183-001 Work Order #...: LKEWV Matrix.....: SOLID
Date Sampled...: 08/31/09 Date Received..: 09/04/09
% Moisture.....: 7.8

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	5.4	mg/kg	MCAWW 353.2	09/24-09/25/09	9267300
		Dilution Factor: 1				
Percent Moisture	7.8	0.10	%	ASTM D 2216-90	09/29-09/30/09	9272510
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight

Barr Engineering Company

Client Sample ID: SOC5-GP6(18-20)

General Chemistry

Lot-Sample #...: G9I050183-002 Work Order #...: LKEWW Matrix.....: SOLID
Date Sampled...: 08/31/09 Date Received..: 09/04/09
% Moisture.....: 2.9

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	5.1	mg/kg	MCAWW 353.2	09/24-09/25/09	9267300
		Dilution Factor: 1				
Percent Moisture	2.9	0.10	%	ASTM D 2216-90	09/29-09/30/09	9272510
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight

Barr Engineering Company

Client Sample ID: SOC5-GP5(1.5-2.5)

General Chemistry

Lot-Sample #...: G9I050183-003 Work Order #...: LKEWX Matrix.....: SOLID
Date Sampled...: 08/31/09 Date Received..: 09/04/09
% Moisture.....: 3.0

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	5.2	mg/kg	MCAWW 353.2	09/24-09/25/09	9267300
		Dilution Factor: 1				
Percent Moisture	3.0	0.10	%	ASTM D 2216-90	09/29-09/30/09	9272510
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight

(

Barr Engineering Company

Client Sample ID: SOC5-GP5(10-12)

General Chemistry

Lot-Sample #...: G9I050183-004 Work Order #...: LKEW0 Matrix.....: SOLID
Date Sampled...: 08/31/09 Date Received..: 09/04/09
% Moisture.....: 4.6

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	5.2	mg/kg	MCAWW 353.2	09/24-09/25/09	9267300
		Dilution Factor: 1				
Percent Moisture	4.6	0.10	%	ASTM D 2216-90	09/29-09/30/09	9272510
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight

Barr Engineering Company

Client Sample ID: SOC5-GP7(0.5-2)

General Chemistry

Lot-Sample #...: G9I050183-005 Work Order #...: LKEW1 Matrix.....: SOLID
Date Sampled...: 08/31/09 Date Received..: 09/04/09
% Moisture.....: 2.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	5.1	mg/kg	MCAWW 353.2	09/24-09/25/09	9267300
		Dilution Factor: 1				
Percent Moisture	2.4	0.10	%	ASTM D 2216-90	09/29-09/30/09	9272510
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight

Barr Engineering Company

Client Sample ID: SOC5-GP7(19-20)

General Chemistry

Lot-Sample #...: G9I050183-006 Work Order #...: LKEW2 Matrix.....: SOLID
Date Sampled...: 08/31/09 Date Received..: 09/04/09
% Moisture.....: 3.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	5.2	mg/kg	MCAWW 353.2	09/24-09/25/09	9267300
		Dilution Factor: 1				
Percent Moisture	3.4	0.10	%	ASTM D 2216-90	09/29-09/30/09	9272510
		Dilution Factor 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight

Barr Engineering Company

Client Sample ID: SOC5-GP8(1-1.5)

General Chemistry

Lot-Sample #...: G9I050183-007 Work Order #...: LKEW3 Matrix.....: SOLID
Date Sampled...: 08/31/09 Date Received..: 09/04/09
% Moisture.....: 12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	5.7	mg/kg	MCAWW 353.2	09/24-09/25/09	9267300
		Dilution Factor: 1				
Percent Moisture	11.6	0.10	%	ASTM D 2216-90	09/29-09/30/09	9272510
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight

Barr Engineering Company

Client Sample ID: SOC5-GP8(5-7)

General Chemistry

Lot-Sample #...: G9I050183-008 Work Order #...: LKEW4 Matrix.....: SOLID
Date Sampled...: 08/31/09 Date Received..: 09/04/09
% Moisture.....: 3.3

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	5.2	mg/kg	MCAWW 353.2	09/24-09/25/09	9267300
		Dilution Factor: 1				
Percent Moisture	3.3	0.10	%	ASTM D 2216-90	09/29-09/30/09	9272510
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight

Barr Engineering Company

Client Sample ID: SOC5-GP4

General Chemistry

Lot-Sample #...: G9I050183-009 Work Order #...: LKEW5 Matrix.....: WATER
Date Sampled...: 09/01/09 Date Received..: 09/04/09

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	09/25-09/28/09	9268492

Dilution Factor: 1

Barr Engineering Company

Client Sample ID: SOC5-BLD604-NPIPE

General Chemistry

Lot-Sample #...: G9I050183-010 Work Order #...: LKEW6 Matrix.....: SOLID
Date Sampled...: 09/02/09 Date Received..: 09/04/09
% Moisture.....: 8.0

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	5.4	mg/kg	MCAWW 353.2	09/24-09/25/09	9267300
		Dilution Factor: 1				
Percent Moisture	8.1	0.10	%	ASTM D 2216-90	09/29-09/30/09	9272510
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight

QC DATA ASSOCIATION SUMMARY

G9I050183

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	ASTM D 2216-90		9272510	9273136
	SOLID	MCAWW 353.2		9267300	9267178
002	SOLID	ASTM D 2216-90		9272510	9273136
	SOLID	MCAWW 353.2		9267300	9267178
003	SOLID	ASTM D 2216-90		9272510	9273136
	SOLID	MCAWW 353.2		9267300	9267178
004	SOLID	ASTM D 2216-90		9272510	9273136
	SOLID	MCAWW 353.2		9267300	9267178
005	SOLID	ASTM D 2216-90		9272510	9273136
	SOLID	MCAWW 353.2		9267300	9267178
006	SOLID	ASTM D 2216-90		9272510	9273136
	SOLID	MCAWW 353.2		9267300	9267178
007	SOLID	ASTM D 2216-90		9272510	9273136
	SOLID	MCAWW 353.2		9267300	9267178
008	SOLID	ASTM D 2216-90		9272510	9273136
	SOLID	MCAWW 353.2		9267300	9267178
009	WATER	MCAWW 353.2		9268492	9268277
010	SOLID	ASTM D 2216-90		9272510	9273136
	SOLID	MCAWW 353.2		9267300	9267178

METHOD BLANK REPORT

General Chemistry

Client Lot #...: G9I050183 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #:	LLEC21AA	MB Lot-Sample #:	G9I240000-300	
	ND	5.0	mg/kg	MCAWW 353.2	09/24-09/25/09	9267300
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

METHOD BLANK REPORT

General Chemistry

Client Lot #...: G9I050183 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LLH5A1AA		MB Lot-Sample #:	G9I250000-492	
	ND	0.50	mg/L	MCAWW 353.2	09/25-09/28/09	9268492
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I050183 Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LLEC21AC	LCS Lot-Sample#: G9I240000-300		
	73	(34 - 115)	MCAWW 353.2	09/24-09/25/09	9267300
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9I050183 Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose			Work Order #:	LLEC21AC	LCS Lot-Sample#:	G9I240000-300	
	50.7	36.9	mg/kg	73	MCAWW 353.2	09/24-09/25/09	9267300
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I050183 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LLH5A1AC	LCS Lot-Sample#: G9I250000-492		
	77	(26 - 144)	MCAWW 353.2	09/25-09/28/09	9268492
		Dilution Factor 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9I050183 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose			Work Order #:	LLH5A1AC	LCS Lot-Sample#:	G9I250000-492	
	2.03	1.56	mg/L	77	MCAWW 353.2	09/25-09/28/09	9268492
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I050183 Matrix.....: SOLID
Date Sampled...: 09/01/09 Date Received..: 09/03/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
						% Moisture.....: 19	
Nitrocellulose		WO#: LKEVH1AC-MS/LKEVH1AD-MSD				MS Lot-Sample #: G9I050179-001	
	65	(34 - 115)			MCAWW 353.2	09/24-09/25/09	9267300
	57	(34 - 115)	11	(0-71)	MCAWW 353.2	09/24-09/25/09	9267300
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

Results and reporting limits have been adjusted for dry weight

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9I050183 Matrix.....: SOLID
Date Sampled...: 09/01/09 Date Received..: 09/03/09

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
							% Moisture.....: 19		
Nitrocellulose			WO#: LKEVH1AC-MS/LKEVH1AD-MSD				MS Lot-Sample #: G9I050179-001		
	ND	62.0	43.1	mg/kg	65		MCAWW 353.2	09/24-09/25/09	9267300
	ND	62.8	38.5	mg/kg	57	11	MCAWW 353.2	09/24-09/25/09	9267300
			Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

Results and reporting limits have been adjusted for dry weight

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I050183 Matrix.....: WATER
Date Sampled...: 09/03/09 Date Received..: 09/05/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		WO#:	LKGDT1AD-MS/LKGDT1AE-MSD			MS Lot-Sample #: G9I080183-006	
	60	(26 - 144)			MCAWW 353.2	09/25-09/28/09	9268492
	27 *	(26 - 144)	76	(0-45)	MCAWW 353.2	09/25-09/28/09	9268492

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

* Relative percent difference (RPD) is outside stated control limits

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9I050183 Matrix.....: WATER
Date Sampled...: 09/03/09 Date Received..: 09/05/09

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose			WO#: LKGDT1AD-MS/LKGDT1AE-MSD				MS Lot-Sample #: G9I080183-006		
	ND	2.03	1.22	mg/L	60		MCAWW 353.2	09/25-09/28/09	9268492
	ND	2.03	0.550 *	mg/L	27	76	MCAWW 353.2	09/25-09/28/09	9268492
			Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

* Relative percent difference (RPD) is outside stated control limits

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I050183 **Work Order #...:** LJ7QM-SMP LJ7QM-DUP **Matrix.....:** SOLID

Date Sampled...: 08/31/09 **Date Received..:** 09/02/09

% Moisture.....: 20

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture						SD Lot-Sample #:	G9I020226-001	
	19.7	18.3	%	7.3	(0-20)	ASTM D 2216-90	09/29-09/30/09	9272510

Dilution Factor: 1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

September 30, 2009

TestAmerica Project Number: G9I080183
PO/Contract: 23/19-OB05.07 SIR1 300

Kelly Neppl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Dear Ms. Neppl,

This report contains the analytical results for the samples received under chain of custody by TestAmerica on September 5, 2009. These samples are associated with your UMore Park project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4442.

Sincerely,

Karen Sellers

Karen M. Sellers
Project Manager

Table of Contents

TestAmerica West Sacramento Project Number G9I080183

Case Narrative

Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

General Chemistry - Various Methods
Samples: 2, 3, 4, 5, 6
- Sample Data Sheet
- Method Blank Report
- Laboratory QC Reports

Case Narrative

TestAmerica West Sacramento Project Number G9I080183

General Comments

Please note that the analysis of sample SOC5-TT22-2' was cancelled by the client on September 8, 2009.

WATER, 353.2, Nitrocellulose as N
Samples: 4, 5, 6
The matrix spike duplicate (MSD) associated with this extraction batch has a recovery and precision outside the established control limits for Nitrocellulose. The MSD sample was spilled in the extraction area and approximately ½ the sample was lost. Acceptable laboratory control sample (LCS) data demonstrate that the analytical system is in control.

There were no other anomalies associated with this project.

TestAmerica Laboratories West Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	New York*	11666
Arizona	AZ0708	Oregon*	CA 200005
Arkansas	88-0691	Pennsylvania	68-1272
California*	01119CA	South Carolina	87014
Colorado	NA	Texas	T104704399-08-TX
Connecticut	PH-0691	Utah*	QUAN1
Florida*	E87570	Virginia	00178
Georgia	960	Washington	C1281
Hawaii	NA	West Virginia	9930C, 334
Illinois	200060	Wisconsin	998204680
Kansas*	E-10375	NFESC	NA
Louisiana*	30612	USACE	NA
Michigan	9947	USDA Foreign Plant	37-82605
Nevada	CA44	USDA Foreign Soil	P330-09-00055
New Jersey*	CA005	US Fish & Wildlife	LE148388-0
New Mexico	NA	Guam	09-014r

*NELAP accredited. A more detailed parameter list is available upon request. Updated 3/25/2009

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

Sample Summary

TestAmerica West Sacramento Project Number G9I080183

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
LKGDD	2	SOC5-TT5-4'	9/3/2009 03:00 PM	9/5/2009 09:30 AM
LKGDE	3	SOC5-TT2-3'	9/3/2009 05:00 PM	9/5/2009 09:30 AM
LKGDH	4	SOC5-GP1	9/2/2009 09:50 AM	9/5/2009 09:30 AM
LKGDQ	5	SOC5-DUP1	9/2/2009 12:00 PM	9/5/2009 09:30 AM
LKGDT	6	MS/MSD-WATER	9/3/2009 02:30 PM	9/5/2009 09:30 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Chain of Custody

BARR

4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

COC 1 of 1

Project Number: 23/19-0805-07 SIRI 300

Project Name: UMA - SSI/RI

Sample Origination State MN (use two letter postal state abbreviation)

COC Number: № 29822

Project Manager: JSA/JME

Project QC Contact: KJN/AAN

Sampled by: KCB

Laboratory: Test America

Number of Containers/Preservative

	Location	Start Depth	Stop Depth	Depth Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix: Water	Matrix: Soil	Matrix:	Type: Grab	Type: Comp.	Type: QC	Water: VOCs (HCl) #1	Water: SVOCs (unpreserved) #2	Water: Dissolved Metals (HNO_3)	Water: Total Metals (HNO_3)	Water: General (unpreserved) #3	Water: Diesel Range Organics (HCl)	Water: Nutrients (H_2SO_4) #4	Soil: VOCs (tared MeOH) #1	Soil: GRO, BTEX (tared MeOH) #1	Soil: DRO (tared unpreserved)	Soil: Metals (unpreserved)	Soil: SVOCs (unpreserved) #2	Soil: % Solids (plastic vial, unpres.)	Soil: Nitrocellulose	Total Number Of Containers	Analyze Nitrocellulose
1	1. SOC5-TT22-2'	2	2	ft	9/3/09	1100			X	X																X	1	
2	2. SOC5-TT5-4'	4	4	ft	9/3/09	1500		X		X																X	2	
3	3. SOC5-TT2-3'	3	3	ft	9/3/09	1700		X		X																X	2	
	4.																											
	5.																											
	6.																											
	7.																											
	8. KB 9/9/09 Sample SOC5-TT22-2' cancelled per Kelly Neppl via e-mail 9/8/09																											
	9.																											
	10.																											

Common Parameter/Container - Preservation Key

#1 - Volatile Organics = BTEX, GRO, TPH, 8260 Full List
#2 - Semivolatile Organics = PAHs, PCP, Dioxins, 8270 Full List, Herbicide/Pesticide/PCBs
#3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
#4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
KRISTEN BATZ	(Y) N	9/3/09	1700	[illegible]	9-4	1510
KELLY NEPPL	(Y) N	9/4/09	800	[illegible]	05 [illegible]	1305

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other: _____

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

6 of 28
TestAmerica West Sacramento (916) 373-5600
H:\RLG\STDFORMS\Chain Of Custody Form 2009 RLG Rev 09\01\09
G3\0\80183
UMP019754

Chain of Custody

BARR

4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

007

COC 1 of 1

Project Number: 23/19-BOS,SI RI 300

Project Name: UMA SSI/RI

№ 28510

Project Manager: JME

Project Contact: KJN

Sampled by: ESC

Laboratory: Test America

Number of Containers/Preservative

Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil	Matrix:	Type: Grab	Type: Comp.	Type: QC	Volatile Organics (Pres.) *1	Semivolatile Organics *2	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	General (Unpreserved) *3	Cyanide (NaOH)	Nutrients (H_2SO_4) *4	Oil and Grease (H_2SO_4)	Sulfide (Zn Acetate)	Methane	Bacteria ($Na_2S_2O_3$)	DRO (HCl)	Nitrocellulose	Perchlorate	VOCs (2-oz tared MeOH) *1	GRO, BTEX (2-oz tared MeOH) *1	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.) *2	% Moisture (plastic vial, unpres.)			Total No. Of Containers	Remarks
4 1. SOCS-GP1	9-2-09	0950	X			X															1	1									2	Nitrocellulose, Perchlorate See attached list
5 2. SOCS-Dup1	9-2-09	1200	X					X													1	1									2	"
3.																																
4.																																
5.																																
6.																																
7.																																
8.																																
9.																																
10.																																
11.																																
12.																																

Common Parameter/Container - Preservation Key

*1 - Volatile Organics = BTEX, GRO, TPH, Full List
*2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
*3 - General = pH, Chloride, Flouride, Alkalinity, TSS, TDS, TS, Sulfate
*4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
KRISTEN BETZ	(Y) N	9/3/09	1700	[illegible]	9/3/09	1305
KELLY NEPPL	(Y) N	9/4/09	900	[illegible]	9-14	1510

Samples Shipped VIA ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other

Air Bill Number.

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

TestAmerica West Sacramento (916) 373 - 5600
H:\LGIST\DFORMS\Chain Of Custody Form RLG Rev 07\01\05
UMP019755

Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

.07

COC 1 of 1

Project Number: 23/19-BOSSIRI300

Project Name: UMA SSI/RI

№ 23232

Project Manager: JME

Project Contact: KJN

Sampled by: EJC

Laboratory: Test America

Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Volatile Organics (Pres.) *1	Semivolatile Organics *2	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	General (Unpreserved) *3	Cyanide (NaOH)	Nutrients (H_2SO_4) *4	Oil and Grease (H_2SO_4)	Sulfide (Zn Acetate)	Methane	Bacteria ($Na_2S_2O_3$)	DRO (HCl)	Nitrocellulose	Perchlorate	VOCs (2-oz tared MeOH) *1	GRO, BTEX (2-oz tared MeOH) *1	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.) *2	% Moisture (plastic vial, unpres.)			Total No. Of Containers	Remarks
1. MS-water	9-3-09	1430	X				X	Matrix Spike												1	1									2	Nitrocellulose + Perchlorate See attached analyte list
2. MSD-water	9-3-09	1430	X				X	Matrix Spike Dup												1	1									2	"
3.																															
4.																															
5.																															
6.																															
7.																															
8.																															
9.																															
10.																															
11.																															
12.																															

Common Parameter/Container - Preservation Key

*1 - Volatile Organics = BTEX, GRO, TPH, Full List
*2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
*3 - General = pH, Chloride, Flouride, Alkalinity, TSS, TDS, TS, Sulfate
*4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By	On Ice?	Date	Time	Received by	Date	Time
KRISTEN BOTTE	(Y) N	9/3/09	1700	[illegible]	09/04/09	1305
KELLY NEPPL	(Y) N	9/4/09	800	[illegible]	9-4-09	1510

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

LOT RECEIPT CHECKLIST
TestAmerica West Sacramento

CLIENT BARR PM KS LOG # 60530

LOT# (QUANTIMS ID) G9I080183 QUOTE# 83148 LOCATION WZA

		Initials	Date
DATE RECEIVED 05 SEP 09 TIME RECEIVED 0930		gl	05 SEP 09
DELIVERED BY	☒ FEDEX ☐ CA OVERNIGHT ☐ CLIENT ☐ AIRBORNE ☐ GOLDENSTATE ☐ DHL ☐ UPS ☐ BAX GLOBAL ☐ GO-GETTERS ☐ TAL COURIER ☐ VALLEY LOGISTICS ☐ MORGAN HILL COURIER ☐ OTHER	gl	05 SEP 09
CUSTODY SEAL STATUS	☒ INTACT ☐ BROKEN ☐ N/A	gl	05 SEP 09
CUSTODY SEAL #(S)	n/a	gl	
SHIPPPING CONTAINER(S)	☐ TAL ☒ CLIENT ☐ N/A	gl	05 SEP 09
TEMPERTURE RECORD (IN °C)	IR 4 ☐ 5 ☒ ☐ OTHER	gl	05 SEP 09
COC #(S)	29822	gl	05 SEP 09
TEMPERATURE BLANK	Observed: 4 Corrected: 4	gl	
SAMPLE TEMPERATURE Observed: 4 4 4 Average: 4 Corrected Average: 4			
COLLECTOR'S NAME:	☒ Verified from COC ☐ Not on COC	gl	05 SEP 09
pH MEASURED	☐ YES ☐ ANOMALY ☒ N/A	CW	9-8-09
LABELED BY			
LABELS CHECKED BY			
PEER REVIEW	☒ NA		
SHORT HOLD TEST NOTIFICATION	SAMPLE RECEIVING		
	WETCHEM ☒ N/A		
	VOA-ENCORES ☒ N/A		
☐ METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL	☒ N/A		
☒ COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES	☐ N/A		
☐ CLOUSEAU ☐ TEMPERATURE EXCEEDED (2 °C – 6 °C)*1	☒ N/A		

☐ WET ICE ☐ BLUE ICE ☐ GEL PACK ☐ NO COOLING AGENTS USED ☐ PM NOTIFIED

Notes:

*1 Acceptable temperature range for State of Wisconsin samples is≤4°C.

UMP019757

TestAmerica West Sacramento

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Bottle Lot Inventory

Lot ID: G9I080183

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*																				
VOAh*																				
AGB																				
AGBs																				
~~250~~ 500AGB				1	1	2														
250AGBs																				
250AGBn																				
500AGB																				
____AGJ																				
500AGJ																				
250AGJ																				
125AGJ			2																	
____CGJ																				
500CGJ																				
250CGJ																				
125CGJ	1	2																		
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ			1	1	1	2														
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
____"CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

h = hydrochloric acid **s** = sulfuric acid **na** = sodium hydroxide **n** = nitric acid **zn** = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

QA-185 4/09 RKE

LEAVE NO SPACES BLANK. USE "NA" IF NOT APPLICABLE.

General Chemistry - Various Methods

Barr Engineering Company

Client Sample ID: SOC5-TT5-4'

General Chemistry

Lot-Sample #...: G9I080183-002 Work Order #...: LKGDD Matrix.....: SOLID
Date Sampled...: 09/03/09 Date Received..: 09/05/09
% Moisture.....: 2.3

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	5.1	mg/kg	MCAWW 353.2	09/24-09/25/09	9267300
		Dilution Factor: 1				
Percent Moisture	2.3	0.10	%	ASTM D 2216-90	09/29-09/30/09	9272510
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight

Barr Engineering Company

Client Sample ID: SOC5-TT2-3'

General Chemistry

Lot-Sample #...: G9I080183-003 Work Order #...: LKGDE Matrix.....: SOLID
Date Sampled...: 09/03/09 Date Received..: 09/05/09
% Moisture.....: 3.9

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	5.2	mg/kg	MCAWW 353.2	09/24-09/25/09	9267300
		Dilution Factor: 1				
Percent Moisture	3.9	0.10	%	ASTM D 2216-90	09/29-09/30/09	9272510
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight

Barr Engineering Company

Client Sample ID: SOC5-GP1

General Chemistry

Lot-Sample #...: G9I080183-004 Work Order #...: LKGDH Matrix.....: WATER
Date Sampled...: 09/02/09 Date Received..: 09/05/09

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	09/25-09/28/09	9268492
		Dilution Factor: 1				
Perchlorate	ND	4.0	ug/L	EPA-DW1 314.0	09/22/09	9266227
		Dilution Factor: 1				

Barr Engineering Company

Client Sample ID: SOC5-DUP1

General Chemistry

Lot-Sample #...: G9I080183-005 Work Order #...: LKGDQ Matrix.....: WATER
Date Sampled...: 09/02/09 Date Received..: 09/05/09

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	09/25-09/28/09	9268492
		Dilution Factor: 1				
Perchlorate	ND	4.0	ug/L	EPA-DW1 314.0	09/22/09	9266227
		Dilution Factor: 1				

Barr Engineering Company

Client Sample ID: MS/MSD-WATER

General Chemistry

Lot-Sample #...: G9I080183-006 Work Order #...: LKGDT Matrix.....: WATER
Date Sampled...: 09/03/09 Date Received..: 09/05/09

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	09/25-09/28/09	9268492
		Dilution Factor. 1				
Perchlorate	ND	4.0	ug/L	EPA-DW1 314.0	09/22/09	9266227
		Dilution Factor 1				

QC DATA ASSOCIATION SUMMARY

G9I080183

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
002	SOLID	ASTM D 2216-90		9272510	9273136
	SOLID	MCAWW 353.2		9267300	9267178
003	SOLID	ASTM D 2216-90		9272510	9273136
	SOLID	MCAWW 353.2		9267300	9267178
004	WATER	MCAWW 353.2		9268492	9268277
	WATER	EPA-DW1 314.0		9266227	9266200
005	WATER	MCAWW 353.2		9268492	9268277
	WATER	EPA-DW1 314.0		9266227	9266200
006	WATER	MCAWW 353.2		9268492	9268277
	WATER	EPA-DW1 314.0		9266227	9266200

METHOD BLANK REPORT

General Chemistry

Client Lot #...: G9I080183 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LLH5A1AA		MB Lot-Sample #:	G9I250000-492	
	ND	0.50	mg/L	MCAWW 353.2	09/25-09/28/09	9268492
		Dilution Factor: 1				
Perchlorate		Work Order #: LLA551AA		MB Lot-Sample #:	G9I230000-227	
	ND	4.0	ug/L	EPA-DW1 314.0	09/22/09	9266227
		Dilution Factor. 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

METHOD BLANK REPORT

General Chemistry

Client Lot #...: G9I080183 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #:	LLEC21AA	MB Lot-Sample #:	G9I240000-300	
	ND	5.0	mg/kg	MCAWW 353.2	09/24-09/25/09	9267300
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I080183 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LLH5A1AC	LCS Lot-Sample#: G9I250000-492		
	77	(26 - 144)	MCAWW 353.2	09/25-09/28/09	9268492
		Dilution Factor: 1			
Perchlorate		Work Order #: LLA551AC	LCS Lot-Sample#: G9I230000-227		
	103	(85 - 115)	EPA-DW1 314.0	09/22/09	9266227
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9I080183 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose			Work Order #:	LLH5A1AC	LCS Lot-Sample#:	G9I250000-492	
	2.03	1.56	mg/L	77	MCAWW 353.2	09/25-09/28/09	9268492
			Dilution Factor: 1				
Perchlorate			Work Order #:	LLA551AC	LCS Lot-Sample#:	G9I230000-227	
	50.0	51.6	ug/L	103	EPA-DW1 314.0	09/22/09	9266227
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I080183 Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LLEC21AC	LCS Lot-Sample#: G9I240000-300		
	73	(34 - 115)	MCAWW 353.2	09/24-09/25/09	9267300
		Dilution Factor. 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9I080183 Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose			Work Order #: LLEC21AC LCS Lot-Sample#: G9I240000-300				
	50.7	36.9	mg/kg	73	MCAWW 353.2	09/24-09/25/09	9267300
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I080183 Matrix.....: SOLID
Date Sampled...: 09/01/09 Date Received..: 09/03/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
						% Moisture.....: 19	
Nitrocellulose		WO#: LKEVH1AC-MS/LKEVH1AD-MSD				MS Lot-Sample #: G9I050179-001	
	65	(34 - 115)			MCAWW 353.2	09/24-09/25/09	9267300
	57	(34 - 115)	11	(0-71)	MCAWW 353.2	09/24-09/25/09	9267300
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

Results and reporting limits have been adjusted for dry weight

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9I080183 Matrix.....: SOLID
Date Sampled...: 09/01/09 Date Received..: 09/03/09

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
							% Moisture.....: 19		
Nitrocellulose			WO#: LKEVH1AC-MS/LKEVH1AD-MSD				MS Lot-Sample #: G9I050179-001		
	ND	62.0	43.1	mg/kg	65		MCAWW 353.2	09/24-09/25/09	9267300
	ND	62.8	38.5	mg/kg	57	11	MCAWW 353.2	09/24-09/25/09	9267300
			Dilution Factor 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

Results and reporting limits have been adjusted for dry weight

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I080183 Matrix.....: WATER
Date Sampled...: 09/03/09 Date Received..: 09/05/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		WO#: LKGDT1AD-MS/LKGDT1AE-MSD				MS Lot-Sample #: G9I080183-006	
	60	(26 - 144)			MCAWW 353.2	09/25-09/28/09	9268492
	27 *	(26 - 144)	76	(0-45)	MCAWW 353.2	09/25-09/28/09	9268492
		Dilution Factor: 1					
Perchlorate		WO#: LKGDT1AF-MS/LKGDT1AG-MSD				MS Lot-Sample #: G9I080183-006	
	109	(80 - 120)			EPA-DW1 314.0	09/22/09	9266227
	112	(80 - 120)	3.1	(0-20)	EPA-DW1 314.0	09/22/09	9266227
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

* Relative percent difference (RPD) is outside stated control limits

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9I080183 Matrix.....: WATER
Date Sampled...: 09/03/09 Date Received..: 09/05/09

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose			WO#: LKGDT1AD-MS/LKGDT1AE-MSD				MS Lot-Sample #: G9I080183-006		
	ND	2.03	1.22	mg/L	60		MCAWW 353.2	09/25-09/28/09	9268492
	ND	2.03	0.550 *	mg/L	27	76	MCAWW 353.2	09/25-09/28/09	9268492
			Dilution Factor. 1						
Perchlorate			WO#: LKGDT1AF-MS/LKGDT1AG-MSD				MS Lot-Sample #: G9I080183-006		
	ND	50.0	54.3	ug/L	109		EPA-DW1 314.0	09/22/09	9266227
	ND	50.0	56.0	ug/L	112	3.1	EPA-DW1 314.0	09/22/09	9266227
			Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

* Relative percent difference (RPD) is outside stated control limits

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I080183 Work Order #...: LJ7QM-SMP Matrix.....: SOLID
LJ7QM-DUP
Date Sampled...: 08/31/09 Date Received..: 09/02/09
% Moisture.....: 20

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture						SD Lot-Sample #:	G9I020226-001	
	19.7	18.3	%	7.3	(0-20)	ASTM D 2216-90	09/29-09/30/09	9272510

Dilution Factor: 1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

October 5, 2009

TestAmerica Project Number: G9I100330
PO/Contract: 23/19-B05.07 S1R1 300

Kelly Neppl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Dear Ms. Neppl,

This report contains the analytical results for the samples received under chain of custody by TestAmerica on September 10, 2009. These samples are associated with your UMore Park project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4442.

Sincerely,

Karen Sellers

Karen M. Sellers
Project Manager

Table of Contents

TestAmerica West Sacramento Project Number G9I100330

Case Narrative

Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

General Chemistry - Various Methods
Samples: 1, 2
- Sample Data Sheet
- Method Blank Report
- Laboratory QC Reports

Case Narrative

TestAmerica West Sacramento Project Number G9I100330

WATER, 353.2, Nitrocellulose as N
Samples: 1, 2
The matrix spike duplicate (MSD) associated with this extraction batch has a recovery and precision outside the established control limits for Nitrocellulose. The MSD sample was spilled in the extraction area and approximately ½ the sample was lost. Acceptable laboratory control sample (LCS) data demonstrate that the analytical system is in control.

There were no other anomalies associated with this project.

TestAmerica Laboratories West Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	New York*	11666
Arizona	AZ0708	Oregon*	CA 200005
Arkansas	88-0691	Pennsylvania	68-1272
California*	01119CA	South Carolina	87014
Colorado	NA	Texas	T104704399-08-TX
Connecticut	PH-0691	Utah*	QUAN1
Florida*	E87570	Virginia	00178
Georgia	960	Washington	C1281
Hawaii	NA	West Virginia	9930C, 334
Illinois	200060	Wisconsin	998204680
Kansas*	E-10375	NFESC	NA
Louisiana*	30612	USACE	NA
Michigan	9947	USDA Foreign Plant	37-82605
Nevada	CA44	USDA Foreign Soil	P330-09-00055
New Jersey*	CA005	US Fish & Wildlife	LE148388-0
New Mexico	NA	Guam	09-014r

*NELAP accredited. A more detailed parameter list is available upon request. Updated 3/25/2009

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

Sample Summary

TestAmerica West Sacramento Project Number G9I100330

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
LKLCG	1	SOC5-GP10	9/8/2009 01:00 PM	9/10/2009 10:20 AM
LKLCH	2	SOC5-GP3	9/8/2009 12:00 PM	9/10/2009 10:20 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Chain of Custody

BARR

4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

COC 1 of 1

Project Number: 23/19-B05.07 S1R1 300

Project Name: UMA SS1/R1

Sample Origination State MN (use two letter postal state abbreviation)

COC Number: № 29005

Project Manager: JME

Project QC Contact: KJN

Sampled by: EJC

Laboratory: Test America

Number of Containers/Preservative

Location	Start Depth	Stop Depth	Depth Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix: Water	Matrix: Soil	Matrix:	Type: Grab	Type: Comp.	Type: QC	Water: VOCs (HCl) #1	Water: SVOCs (unpreserved) #2	Water: Dissolved Metals (HNO_3)	Water: Total Metals (HNO_3)	Water: General (unpreserved) #3	Water: Diesel Range Organics (HCl)	Water: Nutrients (H_2SO_4) #4	Water: Nitrocellulose	Water: Perchlorate	Soil: VOCs (tared MeOH) #1	Soil: GRO, BTEX (tared MeOH) #1	Soil: DRO (tared unpreserved)	Soil: Metals (unpreserved)	Soil: SVOCs (unpreserved) #2	Soil: % Solids (plastic vial, unpres.)	Total Number Of Containers	
1. SOCS-GP10	—	—	—	9-8-09	1300	X			X										1	1							2	Nitrocellulose, Perchlorate See attached list
2. SOCS-GP3	—	—	—	9-8-09	1200	X			X										1								1	Nitrocellulose See attached list
3.																												
4.																												
5.																												
6.																												
7.																												
8.																												
9.																												
10.																												

Common Parameter/Container - Preservation Key

#1 - Volatile Organics = BTEX, GRO, TPH, 8260 Full List
#2 - Semivolatile Organics = PAHs, PCP, Dioxins, 8270 Full List, Herbicide/Pesticide/PCBs
#3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
#4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
[illegible] Considine	(Y) N	9/9/09	0715	[illegible]	9-9	1355
[illegible]	Y N	9-9	1440	Cheng Vue	9/10/09	1305

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other: _____

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

H RLG\STDFORMS\Chain Of Custody Form 2009 RLG Rev 09\01\09

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

LOT RECEIPT CHECKLIST
TestAmerica West Sacramento

CLIENT Barr PM KS LOG # 60611

LOT# (QUANTIMS ID) ~~G9I100330~~ 9/10/09 G9I100330 QUOTE# 83148 LOCATION W18A

		Initials	Date
DATE RECEIVED 9/10/09 TIME RECEIVED 1020		QV	9/10/09
DELIVERED BY	☑ FEDEX ☐ CA OVERNIGHT ☐ CLIENT ☐ AIRBORNE ☐ GOLDENSTATE ☐ DHL ☐ UPS ☐ BAX GLOBAL ☐ GO-GETTERS ☐ TAL COURIER ☐ VALLEY LOGISTICS ☐ MORGAN HILL COURIER ☐ OTHER		
CUSTODY SEAL STATUS	☐ INTACT ☐ BROKEN ☑ N/A		
CUSTODY SEAL #(S)			
SHIPPPING CONTAINER(S)	☑ TAL 9/10/09 ☑ CLIENT ☐ N/A		
TEMPERTURE RECORD (IN °C)	IR 4 ☐ 5 ☑ ☐ OTHER		
COC #(S)	~~HB019~~/10/09 2905		
TEMPERATURE BLANK	Observed: N/A Corrected:		
SAMPLE TEMPERATURE	Observed: 1 0 4 (+2) Average: 2 Corrected Average: 2		
COLLECTOR'S NAME:	☑ Verified from COC ☐ Not on COC		
pH MEASURED	☐ YES ☐ ANOMALY ☑ N/A		
LABELED BY			
LABELS CHECKED BY			
PEER REVIEW	☑ NA		
SHORT HOLD TEST NOTIFICATION	SAMPLE RECEIVING		
	WETCHEM ☑ N/A		
	VOA-ENCORES ☑ N/A		
☐ METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL	☑ N/A		
☑ COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES	☐ N/A		
☐ CLOUSEAU	☐ TEMPERATURE EXCEEDED (2 °C – 6 °C)*1 ☑ N/A		

☐ WET ICE ☐ BLUE ICE ☐ GEL PACK ☐ NO COOLING AGENTS USED ☐ PM NOTIFIED

Notes:

*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C

LEAVE NO SPACES BLANK. USE "N/A" IF NOT APPLICABLE

TestAmerica West Sacramento

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Bottle Lot Inventory

Lot ID: G9I100330

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*																				
VOAh*																				
AGB																				
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB	/	/																		
____AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
____CGJ																				
500CGJ																				
250CGJ																				
125CGJ																				
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ	/																			
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
_____"CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

h = hydrochloric acid **s** = sulfuric acid **na** = sodium hydroxide **n** = nitric acid **zn** = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

QA-185 4/09 RKE

LEAVE NO SPACES BLANK. USE "NA" IF NOT APPLICABLE

General Chemistry - Various Methods

Barr Engineering Company

Client Sample ID: SOC5-GP10

General Chemistry

Lot-Sample #...: G9I100330-001 **Work Order #...:** LKLCG **Matrix.....:** W
Date Sampled...: 09/08/09 **Date Received..:** 09/10/09

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	09/25-09/28/09	9268492
		Dilution Factor: 1				
Perchlorate	ND	4.0	ug/L	EPA-DW1 314.0	09/30/09	9274483
		Dilution Factor 1				

Barr Engineering Company

Client Sample ID: SOC5-GP3

General Chemistry

Lot-Sample #...: G9I100330-002 **Work Order #...:** LKLCH **Matrix.....:** W
Date Sampled...: 09/08/09 **Date Received..:** 09/10/09

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	09/25-09/28/09	9268492

Dilution Factor: 1

QC DATA ASSOCIATION SUMMARY

G9I100330

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	W	MCAWW 353.2		9268492	9268277
	W	EPA-DW1 314.0		9274483	9274265
002	W	MCAWW 353.2		9268492	9268277

METHOD BLANK REPORT

General Chemistry

Client Lot #...: G9I100330 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LLH5A1AA		MB Lot-Sample #:	G9I250000-492	
	ND	0.50	mg/L	MCAWW 353.2	09/25-09/28/09	9268492
		Dilution Factor: 1				
Perchlorate		Work Order #: LLT771AA		MB Lot-Sample #:	G9J010000-483	
	ND	4.0	ug/L	EPA-DW1 314.0	09/30/09	9274483
		Dilution Factor. 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I100330 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LLH5A1AC	LCS Lot-Sample#: G9I250000-492		
	77	(26 - 144)	MCAWW 353.2	09/25-09/28/09	9268492
		Dilution Factor: 1			
Perchlorate		Work Order #: LLT771AC	LCS Lot-Sample#: G9J010000-483		
	103	(85 - 115)	EPA-DW1 314.0	09/30/09	9274483
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9I100330 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose			Work Order #:	LLH5A1AC	LCS Lot-Sample#:	G9I250000-492	
	2.03	1.56	mg/L	77	MCAWW 353.2	09/25-09/28/09	9268492
			Dilution Factor	1			
Perchlorate			Work Order #:	LLT771AC	LCS Lot-Sample#:	G9J010000-483	
	50.0	51.3	ug/L	103	EPA-DW1 314.0	09/30/09	9274483
			Dilution Factor	1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I100330 **Matrix.....:** WATER
Date Sampled...: 09/15/09 **Date Received..:** 09/17/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		WO#: LKGDT1AD-MS/LKGDT1AE-MSD				MS Lot-Sample #: G9I080183-006	
	60	(26 - 144)			MCAWW 353.2	09/25-09/28/09	9268492
	27 *	(26 - 144)	76	(0-45)	MCAWW 353.2	09/25-09/28/09	9268492
		Dilution Factor: 1					
Perchlorate		WO#: LK2A41AF-MS/LK2A41AG-MSD				MS Lot-Sample #: G9I170350-001	
	104	(80 - 120)			EPA-DW1 314.0	09/30/09	9274483
	105	(80 - 120)	0.66	(0-20)	EPA-DW1 314.0	09/30/09	9274483
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

* Relative percent difference (RPD) is outside stated control limits

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9I100330 **Matrix.....:** WATER
Date Sampled...: 09/15/09 **Date Received..:** 09/17/09

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose			WO#: LKGDT1AD-MS/LKGDT1AE-MSD				MS Lot-Sample #: G9I080183-006		
	ND	2.03	1.22	mg/L	60		MCAWW 353.2	09/25-09/28/09	9268492
	ND	2.03	0.550 *	mg/L	27	76	MCAWW 353.2	09/25-09/28/09	9268492
			Dilution Factor: 1						
Perchlorate			WO#: LK2A41AF-MS/LK2A41AG-MSD				MS Lot-Sample #: G9I170350-001		
	ND	50.0	52.1	ug/L	104		EPA-DW1 314.0	09/30/09	9274483
	ND	50.0	52.4	ug/L	105	0.66	EPA-DW1 314.0	09/30/09	9274483
			Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

* Relative percent difference (RPD) is outside stated control limits

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

October 9, 2009

TestAmerica Project Number: G9I110353
PO/Contract: 23/19-B05.07 S1R1 300

Kelly Neppl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Dear Ms. Neppl,

This report contains the analytical results for the samples received under chain of custody by TestAmerica on September 11, 2009. These samples are associated with your UMore Park project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4442.

Sincerely,

Karen Sellers

Karen M. Sellers
Project Manager

Table of Contents

TestAmerica West Sacramento Project Number G9I110353

Case Narrative

Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

General Chemistry - Various Methods
Samples: 1, 2, 3
- Sample Data Sheet
- Method Blank Report
- Laboratory QC Reports

Case Narrative

TestAmerica West Sacramento Project Number G9I110353

WATER, 353.2, Nitrocellulose as N
Sample: 1
The matrix spike duplicate (MSD) associated with this extraction batch has a recovery and precision outside the established control limits for Nitrocellulose. The MSD sample was spilled in the extraction area and approximately ½ the sample was lost. Acceptable laboratory control sample (LCS) data demonstrate that the analytical system is in control.

There were no other anomalies associated with this project.

TestAmerica Laboratories West Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	New York*	11666
Arizona	AZ0708	Oregon*	CA 200005
Arkansas	88-0691	Pennsylvania	68-1272
California*	01119CA	South Carolina	87014
Colorado	NA	Texas	T104704399-08-TX
Connecticut	PH-0691	Utah*	QUAN1
Florida*	E87570	Virginia	00178
Georgia	960	Washington	C1281
Hawaii	NA	West Virginia	9930C, 334
Illinois	200060	Wisconsin	998204680
Kansas*	E-10375	NFESC	NA
Louisiana*	30612	USACE	NA
Michigan	9947	USDA Foreign Plant	37-82605
Nevada	CA44	USDA Foreign Soil	P330-09-00055
New Jersey*	CA005	US Fish & Wildlife	LE148388-0
New Mexico	NA	Guam	09-014r

*NELAP accredited. A more detailed parameter list is available upon request. Updated 3/25/2009

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

Sample Summary

TestAmerica West Sacramento Project Number G9I110353

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
LKN1P	1	SOC5-GP11	9/9/2009 09:00 AM	9/11/2009 09:30 AM
LKN1Q	2	SOC4-GP1	9/9/2009 03:15 PM	9/11/2009 09:30 AM
LKN1R	3	SOC4-GP6	9/9/2009 05:20 PM	9/11/2009 09:30 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

G9I110353

Chain of Custody

BARR

4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

COC 1 of 1

Project Number: 23119-B05.07 SIRI 300

Project Name: UMA SSI/RI

Sample Origination State MN (use two letter postal state abbreviation)

COC Number: № 29009

Project Manager: JME

Project QC Contact: KJN

Sampled by: EJC

Laboratory: Test America

Location	Start Depth	Stop Depth	Depth Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix: Water	Matrix: Soil	Matrix:	Type: Grab	Type: Comp.	Type: QC	Water: VOCs (HCl) #1	Water: SVOCs (unpreserved) #2	Water: Dissolved Metals (HNO_3)	Water: Total Metals (HNO_3)	Water: General (unpreserved) #3	Water: Diesel Range Organics (HCl)	Water: Nutrients (H_2SO_4) #4 Nitrocellulose			Soil: VOCs (tared MeOH) #1	Soil: GRO, BTEX (tared MeOH) #1	Soil: DRO (tared unpreserved)	Soil: Metals (unpreserved)	Soil: SVOCs (unpreserved) #2	Soil: % Solids (plastic vial, unpres.) Nitrocellulose		Total Number Of Containers	
1. SOC5-GP11	—	—	—	9-9-09	0900	X			X									1										1	Nitrocellulose see attached list
2. SOC4-GP1	0.5	2	ft	9-9-09	1515		X		X																	2		2	"
3. SOC4-GP6	1	2	ft	9-9-09	1720		X		X																	2		2	"
4.																													
5.																													
6.																													
7.																													
8.																													
9.																													
10.																													

Common Parameter/Container - Preservation Key

#1 - Volatile Organics = BTEX, GRO, TPH, 8260 Full List
#2 - Semivolatile Organics = PAHs, PCP, Dioxins, 8270 Full List, Herbicide/Pesticide/PCBs
#3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
#4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received By:	Date	Time
[signature]	Y N	9-10-09	0645	[signature]	9-10	1430
[signature]	Y N	9-10	1620	[signature]	9-11-09	1045

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other:

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

H:\RLG\STDFORMS\Chain Of Custody Form 2009 RLG Rev 09\01\09

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

LOT RECEIPT CHECKLIST
TestAmerica West Sacramento

CLIENT Barr PM KS LOG # 60652

LOT# (QUANTIMS ID) G9I110353 QUOTE# 83148 LOCATION W10D

		Initials	Date
DATE RECEIVED 9-11-09 TIME RECEIVED 930		AM	9-11-09
DELIVERED BY	☑ FEDEX ☐ CA OVERNIGHT ☐ CLIENT ☐ AIRBORNE ☐ GOLDENSTATE ☐ DHL ☐ UPS ☐ BAX GLOBAL ☐ GO-GETTERS ☐ TAL COURIER ☐ VALLEY LOGISTICS ☐ MORGAN HILL COURIER ☐ OTHER		
CUSTODY SEAL STATUS	☑ INTACT ☐ BROKEN ☐ N/A		
CUSTODY SEAL #(S)	Fed		
SHIPPPING CONTAINER(S)	☐ TAL ☑ CLIENT ☐ N/A		
TEMPERTURE RECORD (IN °C)	IR 4 ☐ 5 ☑ ☐ OTHER		
COC #(S)	Alliance 29009		
TEMPERATURE BLANK	Observed 1 Corrected 3		
SAMPLE TEMPERATURE	Observed 1 2 2 Average 2 Corrected Average 2		
COLLECTOR'S NAME	☑ Verified from COC ☐ Not on COC		
pH MEASURED	☐ YES ☐ ANOMALY ☑ N/A		
LABELED BY			
LABELS CHECKED BY			
PEER REVIEW	☑ NA		
SHORT HOLD TEST NOTIFICATION	SAMPLE RECEIVING		
	WETCHEM ☑ N/A		
	VOA-ENCORES ☑ N/A		
☐ METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL	☑ N/A		
☑ COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES	☐ N/A		
☐ CLOUSEAU ☐ TEMPERATURE EXCEEDED (2 °C – 6 °C)*1	☑ N/A		
☐ WET ICE ☐ BLUE ICE ☐ GEL PACK ☐ NO COOLING AGENTS USED	☐ PM NOTIFIED		

Notes

*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C

UMP019800

TestAmerica West Sacramento

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Bottle Lot Inventory

Lot ID: G9I110353

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*																				
VOAh*																				
AGB																				
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
____AGJ																				
500AGJ	1																			
250AGJ																				
125AGJ		2	2																	
____CGJ																				
500CGJ																				
250CGJ																				
125CGJ																				
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
_____"CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

h = hydrochloric acid **s** = sulfuric acid **na** = sodium hydroxide **n** = nitric acid **zn** = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

QA-185 4/09 RKE

LEAVE NO SPACES BLANK USE "NA" IF NOT APPLICABLE

General Chemistry - Various Methods

Barr Engineering Company

Client Sample ID: SOC5-GP11

General Chemistry

Lot-Sample #...: G9I110353-001 **Work Order #...:** LKN1P **Matrix.....:** WATER
Date Sampled...: 09/09/09 **Date Received..:** 09/11/09

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	09/25-09/28/09	9268492

Dilution Factor: 1

Barr Engineering Company

Client Sample ID: SOC4-GP1

General Chemistry

Lot-Sample #...: G9I110353-002 **Work Order #...:** LKN1Q **Matrix.....:** SO
Date Sampled...: 09/09/09 **Date Received..:** 09/11/09
% Moisture.....: 15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	5.9	mg/kg	MCAWW 353.2	09/28-09/30/09	9271327
		Dilution Factor: 1				
Percent Moisture	**15.2**	**0.10**	**%**	**ASTM D 2216-90**	**10/02-10/05/09**	**9275468**
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Barr Engineering Company

Client Sample ID: SOC4-GP6

General Chemistry

Lot-Sample #...: G9I110353-003 **Work Order #...:** LKN1R **Matrix.....:** SO
Date Sampled...: 09/09/09 **Date Received..:** 09/11/09
% Moisture.....: 12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	5.7	mg/kg	MCAWW 353.2	09/28-09/30/09	9271327
		Dilution Factor: 1				
Percent Moisture	**11.8**	**0.10**	**%**	**ASTM D 2216-90**	**10/02-10/05/09**	**9275468**
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

QC DATA ASSOCIATION SUMMARY

G9I110353

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	MCAWW 353.2		9268492	9268277
002	SOLID	ASTM D 2216-90		9275468	9275311
	SOLID	MCAWW 353.2		9271327	9271214
003	SOLID	ASTM D 2216-90		9275468	9275311
	SOLID	MCAWW 353.2		9271327	9271214

METHOD BLANK REPORT

General Chemistry

Client Lot #...: G9I110353 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LLH5A1AA		MB Lot-Sample #:	G9I250000-492	
	ND	0.50	mg/L	MCAWW 353.2	09/25-09/28/09	9268492
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: G9I110353 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LLLXD1AA		MB Lot-Sample #:	G9I280000-327	
	ND	5.0	mg/kg	MCAWW 353.2	09/28-09/30/09	9271327
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I110353 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LLH5A1AC	LCS Lot-Sample#: G9I250000-492		
	77	(26 - 144)	MCAWW 353.2	09/25-09/28/09	9268492
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9I110353 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose			Work Order #:	LLH5A1AC	LCS Lot-Sample#:	G9I250000-492	
	2.03	1.56	mg/L	77	MCAWW 353.2	09/25-09/28/09	9268492
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I110353 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LLLXD1AC	LCS Lot-Sample#: G9I280000-327		
	61	(34 - 115)	MCAWW 353.2	09/28-09/30/09	9271327
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9I110353 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose			Work Order #: LLLXD1AC		LCS Lot-Sample#: G9I280000-327		
	50.7	30.7	mg/kg	61	MCAWW 353.2	09/28-09/30/09	9271327
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I110353 **Matrix.....:** WATER
Date Sampled...: 09/03/09 **Date Received..:** 09/05/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		WO#:	LKGDT1AD-MS/LKGDT1AE-MSD			MS Lot-Sample #: G9I080183-006	
	60	(26 - 144)			MCAWW 353.2	09/25-09/28/09	9268492
	27 *	(26 - 144)	76	(0-45)	MCAWW 353.2	09/25-09/28/09	9268492
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

* Relative percent difference (RPD) is outside stated control limits

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9I110353 **Matrix.....:** WATER
Date Sampled...: 09/03/09 **Date Received..:** 09/05/09

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose			WO#: LKGDT1AD-MS/LKGDT1AE-MSD				MS Lot-Sample #: G9I080183-006		
	ND	2.03	1.22	mg/L	60		MCAWW 353.2	09/25-09/28/09	9268492
	ND	2.03	0.550 *	mg/L	27	76	MCAWW 353.2	09/25-09/28/09	9268492
			Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

* Relative percent difference (RPD) is outside stated control limits

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I110353 **Matrix.....:** SOLID
Date Sampled...: 09/10/09 **Date Received..:** 09/12/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
						% Moisture.....: 0.0	
Nitrocellulose		WO#: LKPX41AC-MS/LKPX41AD-MSD				MS Lot-Sample #: G9I120178-010	
	78	(34 - 115)			MCAWW 353.2	09/28-09/30/09	9271327
	76	(34 - 115)	1.0	(0-71)	MCAWW 353.2	09/28-09/30/09	9271327
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9I110353 **Matrix.....:** SOLID
Date Sampled...: 09/10/09 **Date Received..:** 09/12/09

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
								% Moisture.....: 0.0	
Nitrocellulose			WO#: LKPX41AC-MS/LKPX41AD-MSD				MS Lot-Sample #: G9I120178-010		
	ND	50.4	39.1	mg/kg	78		MCAWW 353.2	09/28-09/30/09	9271327
	ND	50.7	38.7	mg/kg	76	1.0	MCAWW 353.2	09/28-09/30/09	9271327
			Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I110353 **Work Order #...:** LKN1Q-SMP **Matrix.....:** SO
LKN1Q-DUP
Date Sampled...: 09/09/09 **Date Received..:** 09/11/09
% Moisture.....: 15

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture						SD Lot-Sample #:	G9I110353-002	
	15.2	16.3	%	6.6	(0-20)	ASTM D 2216-90	10/02-10/05/09	9275468

Dilution Factor: 1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

October 9, 2009

TestAmerica Project Number: G9I120168
PO/Contract: 23/19-B05.07 S1R1 300

Kelly Neppl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Dear Ms. Neppl,

This report contains the analytical results for the samples received under chain of custody by TestAmerica on September 12, 2009. These samples are associated with your UMore Park project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4442.

Sincerely,

Karen Sellers

Karen M. Sellers
Project Manager

Table of Contents

TestAmerica West Sacramento Project Number G9I120168

Case Narrative

Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

General Chemistry - Various Methods
Samples: 1, 2, 4, 5, 6
- Sample Data Sheet
- Method Blank Report
- Laboratory QC Reports

Case Narrative

TestAmerica West Sacramento Project Number G9I120168

General Comments

All analyses for the sample Dup-2 (Geoprobe) and the matrix spike/matrix spike duplicate (MS/MSD) for sample SOC4-GP4(1-2) was cancelled by the client on September 15, 2009.

There are no anomalies associated with this project.

TestAmerica Laboratories West Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	New York*	11666
Arizona	AZ0708	Oregon*	CA 200005
Arkansas	88-0691	Pennsylvania	68-1272
California*	01119CA	South Carolina	87014
Colorado	NA	Texas	T104704399-08-TX
Connecticut	PH-0691	Utah*	QUAN1
Florida*	E87570	Virginia	00178
Georgia	960	Washington	C1281
Hawaii	NA	West Virginia	9930C, 334
Illinois	200060	Wisconsin	998204680
Kansas*	E-10375	NFESC	NA
Louisiana*	30612	USACE	NA
Michigan	9947	USDA Foreign Plant	37-82605
Nevada	CA44	USDA Foreign Soil	P330-09-00055
New Jersey*	CA005	US Fish & Wildlife	LE148388-0
New Mexico	NA	Guam	09-014r

*NELAP accredited. A more detailed parameter list is available upon request. Updated 3/25/2009

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

G9i120168

Chain of Custody

BARR

4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

COC 1 of 1

Project Number: 2319-805.07 SIRI 300

Project Name: UMA SSI/RI

Sample Origination State: MN (use two letter postal state abbreviation)

COC Number: № 29015

Project Manager: JME

Project QC Contact: KJN

Sampled by: ESC

Laboratory: TestAmerica

Number of Containers/Preservative

Location	Start Depth	Stop Depth	Depth Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Water: VOCs (HCl) #1	Water: SVOCs (unpreserved) #2	Water: Dissolved Metals (HNO_3)	Water: Total Metals (HNO_3)	Water: General (unpreserved) #3	Water: Diesel Range Organics (HCl)	Water: Nutrients (H_2SO_4) #4 Nitrocellulose	Soil: VOCs (tared MeOH) #1	Soil: GRO, BTEX (tared MeOH) #1	Soil: DRO (tared unpreserved)	Soil: Metals (unpreserved)	Soil: SVOCs (unpreserved) #2	Soil: % Solids (plastic vial, unpres.)	Soil: Nitrocellulose	Total Number Of Containers	
1. SOC4-GP7(1-2)	1	2	ft	9-10-09	1145		X	X																2	2	Nitrocellulose See attached list
2. SOC4-GP4(1-2)	1	2	ft	9-10-09	1300		X	X			(Extra MS/MSD volume)													6	6	"
3. Dup-2 (Geoprobe)	—	—	—	9-10-09	1200		X			X														2	2	"
4. SOC4-GP4	—	—	—	9-10-09	1500	X		X									1								1	"
5. SOC4-GP5(1-3)	1	3	ft	9-10-09	1630		X	X																2	2	"
6. SOC4-GP5	—	—	—	9-10-09	1700	X		X									1								1	"
7.																										
8.																										
9.																										
10.																										

Common Parameter/Container - Preservation Key

#1 - Volatile Organics = BTEX, GRO, TPH, 8260 Full List
#2 - Semivolatile Organics = PAHs, PCP, Dioxins, 8270 Full List, Herbicide/Pesticide/PCBs
#3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
#4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
[illegible]	(Y) N	9-11-09	0725	[illegible]	9-11	1200
[illegible]	(Y) N	9-11	1730	[illegible]	9/12/09	0950

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other: _____

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

TestAmerica West Sacramento (916) 373 - 5600

H:\RLG\STDFORMS\Chain Of Custody Form 2009 RLG Rev 09\01\09

UMP019822

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

LOT RECEIPT CHECKLIST
TestAmerica West Sacramento

CLIENT Barr PM KS LOG # 60672

LOT# (QUANTIMS ID) G9I120168 QUOTE# 83148 LW 9/11/09 83148 LOCATION W8A

		Initials	Date
DATE RECEIVED 9/12/09 TIME RECEIVED 0855		LV	9/12/09
DELIVERED BY	☑ FEDEX ☐ CA OVERNIGHT ☐ CLIENT ☐ AIRBORNE ☐ GOLDENSTATE ☐ DHL ☐ UPS ☐ BAX GLOBAL ☐ GO-GETTERS ☐ TAL COURIER ☐ VALLEY LOGISTICS ☐ MORGAN HILL COURIER ☐ OTHER		
CUSTODY SEAL STATUS	☐ INTACT ☐ BROKEN ☑ N/A		
CUSTODY SEAL #(S)			
SHIPPPING CONTAINER(S)	☐ TAL ☑ CLIENT ☐ N/A		
TEMPERTURE RECORD (IN °C)	IR 4 ☐ 5 ☑ ☐ OTHER		
COC #(S)	29015		
TEMPERATURE BLANK	Observed ___ Corrected: 3		
SAMPLE TEMPERATURE Observed 3 4 4 4 5 3	Average 4 Corrected Average 4		
COLLECTOR'S NAME	☑ Verified from COC ☐ Not on COC		
pH MEASURED	☐ YES ☐ ANOMALY ☑ N/A		
LABELED BY			
LABELS CHECKED BY			
PEER REVIEW	☑ NA		
SHORT HOLD TEST NOTIFICATION	SAMPLE RECEIVING		
	WETCHEM ☑ N/A		
	VOA-ENCORES ☑ N/A		
☐ METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL	☑ N/A		
☑ COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES	☐ N/A		
☐ CLOUSEAU	☐ TEMPERATURE EXCEEDED (2 °C – 6 °C)*1 ☑ N/A		

☐ WET ICE ☐ BLUE ICE ☐ GEL PACK ☐ NO COOLING AGENTS USED ☐ PM NOTIFIED

Notes.

*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C

UMP019823

TestAmerica West Sacramento

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Bottle Lot Inventory

Lot ID: G9I120168

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*																				
VOAh*																				
AGB																				
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB				1		1														
____AGJ																				
500AGJ																				
250AGJ																				
125AGJ	2	6	2		2															
____CGJ																				
500CGJ																				
250CGJ																				
125CGJ																				
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
_____"CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

h = hydrochloric acid **s** = sulfuric acid **na** = sodium hydroxide **n** = nitric acid **zn** = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

QA-185 4/09 RKE

LEAVE NO SPACES BLANK USE "NA" IF NOT APPLICABLE.

General Chemistry - Various Methods

Barr Engineering Company

Client Sample ID: SOC4-GP7(1-2)

General Chemistry

Lot-Sample #...: G9I120168-001 **Work Order #...:** LKPR8 **Matrix.....:** SO
Date Sampled...: 09/10/09 **Date Received..:** 09/12/09
% Moisture.....: 15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	5.8	mg/kg	MCAWW 353.2	09/28-09/30/09	9271327
		Dilution Factor: 1				
Percent Moisture	**14.5**	**0.10**	**%**	**ASTM D 2216-90**	**10/02-10/05/09**	**9275468**
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Barr Engineering Company

Client Sample ID: SOC4-GP4(1-2)

General Chemistry

Lot-Sample #...: G9I120168-002 **Work Order #...:** LKPTD **Matrix.....:** SO
Date Sampled...: 09/10/09 **Date Received..:** 09/12/09
% Moisture.....: 15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	5.9	mg/kg	MCAWW 353.2	09/28-09/30/09	9271327
		Dilution Factor: 1				
Percent Moisture	**14.6**	**0.10**	**%**	**ASTM D 2216-90**	**10/02-10/05/09**	**9275468**
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Barr Engineering Company

Client Sample ID: SOC4-GP4

General Chemistry

Lot-Sample #...: G9I120168-004 **Work Order #...:** LKPTJ **Matrix.....:** W
Date Sampled...: 09/10/09 **Date Received..:** 09/12/09

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	09/29-09/30/09	9272300

Dilution Factor: 1

Barr Engineering Company

Client Sample ID: SOC4-GP5(1-3)

General Chemistry

Lot-Sample #...: G9I120168-005 **Work Order #...:** LKPTM **Matrix.....:** SO
Date Sampled...: 09/10/09 **Date Received..:** 09/12/09
% Moisture.....: 14

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	5.8	mg/kg	MCAWW 353.2	09/28-09/30/09	9271327
		Dilution Factor: 1				
Percent Moisture	**13.8**	**0.10**	**%**	**ASTM D 2216-90**	**10/02-10/05/09**	**9275468**
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Barr Engineering Company

Client Sample ID: SOC4-GP5

General Chemistry

Lot-Sample #...: G9I120168-006 **Work Order #...:** LKPTP **Matrix.....:** W
Date Sampled...: 09/10/09 **Date Received..:** 09/12/09

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	09/29-09/30/09	9272300

Dilution Factor: 1

QC DATA ASSOCIATION SUMMARY

G9I120168

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SO	ASTM D 2216-90		9275468	9275311
	SO	MCAWW 353.2		9271327	9271214
002	SO	ASTM D 2216-90		9275468	9275311
	SO	MCAWW 353.2		9271327	9271214
004	W	MCAWW 353.2		9272300	9272154
005	SO	ASTM D 2216-90		9275468	9275311
	SO	MCAWW 353.2		9271327	9271214
006	W	MCAWW 353.2		9272300	9272154

METHOD BLANK REPORT

General Chemistry

Client Lot #...: G9I120168 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LLLXD1AA		MB Lot-Sample #:	G9I280000-327	
	ND	5.0	mg/kg	MCAWW 353.2	09/28-09/30/09	9271327
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: G9I120168 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LLM5X1AA		MB Lot-Sample #:	G9I290000-300	
	ND	0.50	mg/L	MCAWW 353.2	09/29-09/30/09	9272300
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I120168 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LLLXD1AC	LCS Lot-Sample#: G9I280000-327		
	61	(34 - 115)	MCAWW 353.2	09/28-09/30/09	9271327
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9I120168 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose			Work Order #: LLLXD1AC		LCS Lot-Sample#: G9I280000-327		
	50.7	30.7	mg/kg	61	MCAWW 353.2	09/28-09/30/09	9271327
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I120168 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LLM5X1AC		LCS Lot-Sample#: G9I290000-300	
	86	(26 - 144)	MCAWW 353.2	09/29-09/30/09	9272300
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9I120168 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose			Work Order #:	LLM5X1AC	LCS Lot-Sample#:	G9I290000-300	
	2.03	1.75	mg/L	86	MCAWW 353.2	09/29-09/30/09	9272300
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I120168 **Matrix.....:** SOLID
Date Sampled...: 09/10/09 **Date Received..:** 09/12/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
						% Moisture.....: 18	
Nitrocellulose		WO#: LKPX41AC-MS/LKPX41AD-MSD				MS Lot-Sample #: G9I120178-010	
	78	(34 - 115)			MCAWW 353.2	09/28-09/30/09	9271327
	76	(34 - 115)	1.0	(0-71)	MCAWW 353.2	09/28-09/30/09	9271327
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9I120168 **Matrix.....:** SOLID
Date Sampled...: 09/10/09 **Date Received..:** 09/12/09

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
								% Moisture.....: 18	
Nitrocellulose			WO#: LKPX41AC-MS/LKPX41AD-MSD				MS Lot-Sample #: G9I120178-010		
	ND	61.4	47.7	mg/kg	78		MCAWW 353.2	09/28-09/30/09	9271327
	ND	61.8	47.2	mg/kg	76	1.0	MCAWW 353.2	09/28-09/30/09	9271327
			Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I120168 **Matrix.....:** WATER
Date Sampled...: 09/15/09 **Date Received..:** 09/17/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		WO#:	LK2A41AD-MS/LK2A41AE-MSD			MS Lot-Sample #: G9I170350-001	
	72	(26 - 144)			MCAWW 353.2	09/29-09/30/09	9272300
	80	(26 - 144)	10	(0-45)	MCAWW 353.2	09/29-09/30/09	9272300
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9I120168 **Matrix.....:** WATER
Date Sampled...: 09/15/09 **Date Received..:** 09/17/09

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose			WO#: LK2A41AD-MS/LK2A41AE-MSD				MS Lot-Sample #: G9I170350-001		
	ND	2.03	1.47	mg/L	72		MCAWW 353.2	09/29-09/30/09	9272300
	ND	2.03	1.63	mg/L	80	10	MCAWW 353.2	09/29-09/30/09	9272300
			Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I120168 **Work Order #...:** LKN1Q-SMP **Matrix.....:** SOLID
LKN1Q-DUP

Date Sampled...: 09/09/09 **Date Received..:** 09/11/09

% Moisture.....: 15

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture						SD Lot-Sample #:	G9I110353-002	
	15.2	16.3	%	6.6	(0-20)	ASTM D 2216-90	10/02-10/05/09	9275468

Dilution Factor: 1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

October 9, 2009

TestAmerica Project Number: G9I120178
PO/Contract: 23/19-0B05.07 S1R1 300

Kelly Neppl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Dear Ms. Neppl,

This report contains the analytical results for the samples received under chain of custody by TestAmerica on September 12, 2009. These samples are associated with your UMore Park project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4442.

Sincerely,

Karen Sellers

Karen M. Sellers
Project Manager

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TestAmerica West Sacramento Project Number G9I120178

Case Narrative

Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

General Chemistry - Various Methods
Samples: 1, 2, 3, 4, 6, 7, 8, 9, 10, 11
- Sample Data Sheet
- Method Blank Report
- Laboratory QC Reports

Case Narrative

TestAmerica West Sacramento Project Number G9I120178

General Comments

All analyses for the sample M2 were cancelled by the client on September 16, 2009.

Please note that the container label for sample SOC5-SS10-0.5' had the client ID SOC5-SS10. Also the container label for sample SOC5-SS8-0.5' had the client ID SOC5-SS8. The samples were logged in using the client ID on the chain of custody.

There are no anomalies associated with this project.

TestAmerica Laboratories West Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	New York*	11666
Arizona	AZ0708	Oregon*	CA 200005
Arkansas	88-0691	Pennsylvania	68-1272
California*	01119CA	South Carolina	87014
Colorado	NA	Texas	T104704399-08-TX
Connecticut	PH-0691	Utah*	QUAN1
Florida*	E87570	Virginia	00178
Georgia	960	Washington	C1281
Hawaii	NA	West Virginia	9930C, 334
Illinois	200060	Wisconsin	998204680
Kansas*	E-10375	NFESC	NA
Louisiana*	30612	USACE	NA
Michigan	9947	USDA Foreign Plant	37-82605
Nevada	CA44	USDA Foreign Soil	P330-09-00055
New Jersey*	CA005	US Fish & Wildlife	LE148388-0
New Mexico	NA	Guam	09-014r

*NELAP accredited. A more detailed parameter list is available upon request. Updated 3/25/2009

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

Sample Summary

TestAmerica West Sacramento Project Number G9I120178

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
LKPW7	1	SOC5-TT7-4'	9/8/2009 05:00 PM	9/12/2009 08:55 AM
LKPXG	2	SOC5-TT9-13'	9/8/2009 02:00 PM	9/12/2009 08:55 AM
LKPXJ	3	SOC4-TT9-6'	9/10/2009 02:30 PM	9/12/2009 08:55 AM
LKPXM	4	SOC5-TT13-3'	9/10/2009 12:00 PM	9/12/2009 08:55 AM
LKPXR	6	SOC5-TT18-4'	9/9/2009 10:00 AM	9/12/2009 08:55 AM
LKPXV	7	SOC5-TT25-5'	9/9/2009 12:00 PM	9/12/2009 08:55 AM
LKPXX	8	SOC5-SS10-0.5'	9/10/2009 03:00 PM	9/12/2009 08:55 AM
LKPX1	9	SOC5-M1	9/10/2009	9/12/2009 08:55 AM
LKPX4	10	SOC5-SS8-0.5'	9/10/2009 01:00 PM	9/12/2009 08:55 AM
LKPX6	11	FB-2	9/10/2009 05:30 PM	9/12/2009 08:55 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Chain of Custody

BARR

4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

COC 1 of 2

Project Number: 23/19-0805.07 SIRI 300

Project Name: UMA SSI/RI

Sample Origination State MN (use two letter postal state abbreviation)

COC Number: № 29034

Project Manager: JSA/JME

Project QC Contact: KJN/AAN

Sampled by: KLB

Laboratory: Test America

Location	Start Depth	Stop Depth	Depth Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	VOCs (HCl) #1	SVOCs (unpreserved) #2	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	General (unpreserved) #3	Diesel Range Organics (HCl)	Nutrients (H_2SO_4) #4	VOCs (tared MeOH) #1	GRO, BTEX (tared MeOH) #1	DRO (tared unpreserved)	Metals (unpreserved)	SVOCs (unpreserved) #2	% Solids (plastic vial, unpres.)	Nitrocellulose	Total Number Of Containers	
1. SOC5-TT7-4'	4	4	ft	09/08/2009	1700		X	X															X	X	2	Analyze Nitrocellulose
2. SOC5-TT9-13'	13	13	ft	↓	1400		X	X															X	X	2	↓
3. SOC4-TT9-6'	6'	6	ft	09/10/2009	1430		X	X															X	X	2	
4. SOC5-TT13-3'	3	3		09/10/2009	1200		X	X															X	X	2	
5. M-2	—	—	—	09/10/2009	—		X	X															X	X	2	
6. SOC5-TT18-4'	4	4	ft	09/09/2009	1000		X	X															X	X	2	
7. SOC5-TT25-5'	5	5	ft	09/09/2009	1200		X	X															X	X	2	
X 8. SOC5-SS10-0.5'	0.5	0.5	↓	09/10/2009	1500		X	X															X	X	2	
9. SOC5-M1	—	—	↓	↓	—		X	X															X	X	2	
— 10. SOC5-SS8-0.5'	0.5	0.5	↓	↓	1300		X	X															X	X	4	MS/MSD no included.

Common Parameter/Container - Preservation Key

#1 - Volatile Organics = BTEX, GRO, TPH, 8260 Full List
#2 - Semivolatile Organics = PAHs, PCP, Dioxins, 8270 Full List, Herbicide/Pesticide/PCBs
#3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
#4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

X = labeled SOC5-SS10
— = 2 of 4 labeled SOC5-SS8 JSA 9/12/09

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
Kristin Bt	(Y) N	9/11/09	1105	[signature]	9-11	1200
[signature]	(Y) N	9-11	1650	Chang Lee	9/12/09	0950

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other:

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

TestAmerica West Sacramento (916) 373-5600
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Chain of Custody

BARR

4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

COC 2 of 2

Project Number: 23/19-0805.07 SIRI 300

Project Name: UMA SSI/RI

Sample Origination State MN (use two letter postal state abbreviation)

COC Number: № 29829

Project Manager: JME/JSA

Project QC Contact: KJN/AAN

Sampled by: KJN/KCB

Laboratory: Test America

Location	Start Depth	Stop Depth	Depth Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Water: VOCs (HCl) #1	Water: SVOCs (unpreserved) #2	Water: Dissolved Metals (HNO_3)	Water: Total Metals (HNO_3)	Water: General (unpreserved) #3	Water: Diesel Range Organics (HCl)	Water: Nutrients (H_2SO_4) #4	Water: Nitrocellulose	Soil: VOCs (tared MeOH) #1	Soil: GRO, BTEX (tared MeOH) #1	Soil: DRO (tared unpreserved)	Soil: Metals (unpreserved)	Soil: SVOCs (unpreserved) #2	Soil: % Solids (plastic vial, unpres.)	Total Number Of Containers	Analyze Nitro-cellulose
1. FB-2	–	–	–	09/10/2009	1730	X		X				X						X							1	
2.																										
3.																										
4.																										
5.																										
6.																										
7.																										
8.																										
9.																										
10.																										

Common Parameter/Container - Preservation Key

#1 - Volatile Organics = BTEX, GRO, TPH, 8260 Full List
#2 - Semivolatile Organics = PAHs, PCP, Dioxins, 8270 Full List, Herbicide/Pesticide/PCBs
#3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
#4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
[signature]	(Y) N	9/11/09	1105	[signature]	9-11	1200
Relinquished By: [signature]	On Ice? (Y) N	Date 9-11-09	Time 1600	Received by: Chong Lhe	Date 9/12/09	Time 0950

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other: _____

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

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TestAmerica

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LOT RECEIPT CHECKLIST
TestAmerica West Sacramento

CLIENT Barr PM KS LOG # 60673

LOT# (QUANTIMS ID) G9I120178 QUOTE# 83148 LOCATION WBA

		Initials	Date
DATE RECEIVED 9/12/09 TIME RECEIVED 0855		CV	9/12/09
DELIVERED BY	☑ FEDEX ☐ CA OVERNIGHT ☐ CLIENT ☐ AIRBORNE ☐ GOLDENSTATE ☐ DHL ☐ UPS ☐ BAX GLOBAL ☐ GO-GETTERS ☐ TAL COURIER ☐ VALLEY LOGISTICS ☐ MORGAN HILL COURIER ☐ OTHER		
CUSTODY SEAL STATUS	☐ INTACT ☐ BROKEN ☑ N/A		
CUSTODY SEAL #(S)			
SHIPPPING CONTAINER(S)	☐ TAL ☑ CLIENT ☐ N/A		
TEMPERTURE RECORD (IN °C)	IR 4 ☐ 5 ☑ ☐ OTHER		
COC #(S)	29034, 29829		
TEMPERATURE BLANK	Observed: 1 Corrected: 3		
SAMPLE TEMPERATURE Observed: 3 4 4 4 5 4	Average: 4 Corrected Average: 4 4		
COLLECTOR'S NAME:	☑ Verified from COC ☐ Not on COC		
pH MEASURED	☐ YES ☐ ANOMALY ☑ N/A		
LABELED BY			
LABELS CHECKED BY			
PEER REVIEW	☑ NA		
SHORT HOLD TEST NOTIFICATION	SAMPLE RECEIVING		
	WETCHEM ☑ N/A		
	VOA-ENCORES ☑ N/A		
☐ METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL	☑ N/A		
☐ COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES	☑ N/A		
☑ CLOUSEAU	☐ TEMPERATURE EXCEEDED (2 °C – 6 °C)*1 ☐ N/A		
☐ WET ICE	☐ BLUE ICE ☐ GEL PACK ☐ NO COOLING AGENTS USED		☑ PM NOTIFIED

Notes.

*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C

LEAVE NO SPACES BLANK. USE "N/A" IF NOT APPLICABLE

TestAmerica West Sacramento

TestAmerica

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Bottle Lot Inventory

Lot ID: G9I120178

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*																				
VOAh*																				
AGB																				
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB											1									
____AGJ																				
500AGJ																				
250AGJ																				
125AGJ	2	2																		
____CGJ																				
500CGJ																				
250CGJ																				
125CGJ			2	2	2	2	2	2	2	4										
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
_____"CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

h = hydrochloric acid **s** = sulfuric acid **na** = sodium hydroxide **n** = nitric acid **zn** = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

QA-185 4/09 RKE

LEAVE NO SPACES BLANK USE "NA" IF NOT APPLICABLE

General Chemistry - Various Methods

Barr Engineering Company

Client Sample ID: SOC5-TT7-4'

General Chemistry

Lot-Sample #...: G9I120178-001 **Work Order #...:** LKPW7 **Matrix.....:** SO
Date Sampled...: 09/08/09 **Date Received..:** 09/12/09
% Moisture.....: 3.9

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	5.2	mg/kg	MCAWW 353.2	09/28-09/30/09	9271327
		Dilution Factor: 1				
Percent Moisture	**3.9**	**0.10**	**%**	**ASTM D 2216-90**	**10/02-10/05/09**	**9275468**
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Barr Engineering Company

Client Sample ID: SOC5-TT9-13'

General Chemistry

Lot-Sample #...: G9I120178-002 **Work Order #...:** LKPXG **Matrix.....:** SO
Date Sampled...: 09/08/09 **Date Received..:** 09/12/09
% Moisture.....: 3.8

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	5.2	mg/kg	MCAWW 353.2	09/28-09/30/09	9271327
		Dilution Factor: 1				
Percent Moisture	**3.8**	**0.10**	**%**	**ASTM D 2216-90**	**10/02-10/05/09**	**9275468**
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Barr Engineering Company

Client Sample ID: SOC4-TT9-6'

General Chemistry

Lot-Sample #...: G9I120178-003 **Work Order #...:** LKPXJ **Matrix.....:** SO
Date Sampled...: 09/10/09 **Date Received..:** 09/12/09
% Moisture.....: 1.8

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	5.1	mg/kg	MCAWW 353.2	09/28-09/30/09	9271327
		Dilution Factor: 1				
Percent Moisture	**1.9**	**0.10**	**%**	**ASTM D 2216-90**	**10/02-10/05/09**	**9275468**
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Barr Engineering Company

Client Sample ID: SOC5-TT13-3'

General Chemistry

Lot-Sample #...: G9I120178-004 **Work Order #...:** LKPXM **Matrix.....:** SO
Date Sampled...: 09/10/09 **Date Received..:** 09/12/09
% Moisture.....: 2.3

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	5.1	mg/kg	MCAWW 353.2	09/28-09/30/09	9271327
		Dilution Factor: 1				
Percent Moisture	**2.3**	**0.10**	**%**	**ASTM D 2216-90**	**10/02-10/05/09**	**9275468**
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Barr Engineering Company

Client Sample ID: SOC5-TT18-4'

General Chemistry

Lot-Sample #...: G9I120178-006 **Work Order #...:** LKPXR **Matrix.....:** SO
Date Sampled...: 09/09/09 **Date Received..:** 09/12/09
% Moisture.....: 23

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	6.5	mg/kg	MCAWW 353.2	09/28-09/30/09	9271327
		Dilution Factor: 1				
Percent Moisture	**22.5**	**0.10**	**%**	**ASTM D 2216-90**	**10/02-10/05/09**	**9275468**
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Barr Engineering Company

Client Sample ID: SOC5-TT25-5'

General Chemistry

Lot-Sample #...: G9I120178-007 **Work Order #...:** LKPXV **Matrix.....:** SO
Date Sampled...: 09/09/09 **Date Received..:** 09/12/09
% Moisture.....: 8.3

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	5.5	mg/kg	MCAWW 353.2	09/28-09/30/09	9271327
		Dilution Factor: 1				
Percent Moisture	**8.3**	**0.10**	**%**	**ASTM D 2216-90**	**10/02-10/05/09**	**9275468**
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Barr Engineering Company

Client Sample ID: SOC5-SS10-0.5'

General Chemistry

Lot-Sample #...: G9I120178-008 **Work Order #...:** LKPXX **Matrix.....:** SO
Date Sampled...: 09/10/09 **Date Received..:** 09/12/09
% Moisture.....: 12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	5.7	mg/kg	MCAWW 353.2	09/28-09/30/09	9271327
		Dilution Factor: 1				
Percent Moisture	**12.2**	**0.10**	**%**	**ASTM D 2216-90**	**10/02-10/05/09**	**9275468**
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Barr Engineering Company

Client Sample ID: SOC5-M1

General Chemistry

Lot-Sample #...: G9I120178-009 **Work Order #...:** LKPX1 **Matrix.....:** SO
Date Sampled...: 09/10/09 **Date Received..:** 09/12/09
% Moisture.....: 16

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	5.9	mg/kg	MCAWW 353.2	09/28-09/30/09	9271327
		Dilution Factor: 1				
Percent Moisture	**15.5**	**0.10**	**%**	**ASTM D 2216-90**	**10/02-10/05/09**	**9275468**
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Barr Engineering Company

Client Sample ID: SOC5-SS8-0.5'

General Chemistry

Lot-Sample #...: G9I120178-010 **Work Order #...:** LKPX4 **Matrix.....:** SO
Date Sampled...: 09/10/09 **Date Received..:** 09/12/09
% Moisture.....: 18

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	6.1	mg/kg	MCAWW 353.2	09/28-09/30/09	9271327
		Dilution Factor: 1				
Percent Moisture	**18.0**	**0.10**	**%**	**ASTM D 2216-90**	**10/02-10/05/09**	**9275468**
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Barr Engineering Company

Client Sample ID: FB-2

General Chemistry

Lot-Sample #...: G9I120178-011 **Work Order #...:** LKPX6 **Matrix.....:** W
Date Sampled...: 09/10/09 **Date Received..:** 09/12/09

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	09/29-09/30/09	9272300

Dilution Factor: 1

QC DATA ASSOCIATION SUMMARY

G9I120178

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SO	ASTM D 2216-90		9275468	9275311
	SO	MCAWW 353.2		9271327	9271214
002	SO	ASTM D 2216-90		9275468	9275311
	SO	MCAWW 353.2		9271327	9271214
003	SO	ASTM D 2216-90		9275468	9275311
	SO	MCAWW 353.2		9271327	9271214
004	SO	ASTM D 2216-90		9275468	9275311
	SO	MCAWW 353.2		9271327	9271214
006	SO	ASTM D 2216-90		9275468	9275311
	SO	MCAWW 353.2		9271327	9271214
007	SO	ASTM D 2216-90		9275468	9275311
	SO	MCAWW 353.2		9271327	9271214
008	SO	ASTM D 2216-90		9275468	9275311
	SO	MCAWW 353.2		9271327	9271214
009	SO	ASTM D 2216-90		9275468	9275311
	SO	MCAWW 353.2		9271327	9271214
010	SO	ASTM D 2216-90		9275468	9275311
	SO	MCAWW 353.2		9271327	9271214
011	W	MCAWW 353.2		9272300	9272154

METHOD BLANK REPORT

General Chemistry

Client Lot #...: G9I120178 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LLLXD1AA		MB Lot-Sample #:	G9I280000-327	
	ND	5.0	mg/kg	MCAWW 353.2	09/28-09/30/09	9271327
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: G9I120178 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LLM5X1AA		MB Lot-Sample #:	G9I290000-300	
	ND	0.50	mg/L	MCAWW 353.2	09/29-09/30/09	9272300
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I120178 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LLLXD1AC	LCS Lot-Sample#: G9I280000-327		
	61	(34 - 115)	MCAWW 353.2	09/28-09/30/09	9271327
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9I120178 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose			Work Order #:	LLLXD1AC	LCS Lot-Sample#:	G9I280000-327	
	50.7	30.7	mg/kg	61	MCAWW 353.2	09/28-09/30/09	9271327
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I120178 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LLM5X1AC	LCS Lot-Sample#: G9I290000-300		
	86	(26 - 144)	MCAWW 353.2	09/29-09/30/09	9272300
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9I120178 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose			Work Order #: LLM5X1AC LCS Lot-Sample#: G9I290000-300				
	2.03	1.75	mg/L	86	MCAWW 353.2	09/29-09/30/09	9272300
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I120178 **Matrix.....:** SO
Date Sampled...: 09/10/09 **Date Received..:** 09/12/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		WO#:	LKPX41AC-MS/LKPX41AD-MSD			MS Lot-Sample #: G9I120178-010	
	78	(34 - 115)			MCAWW 353.2	09/28-09/30/09	9271327
	76	(34 - 115)	1.0	(0-71)	MCAWW 353.2	09/28-09/30/09	9271327
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9I120178 **Matrix.....:** SO
Date Sampled...: 09/10/09 **Date Received..:** 09/12/09

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose			WO#: LKPX41AC-MS/LKPX41AD-MSD				MS Lot-Sample #: G9I120178-010		
	ND	61.4	47.7	mg/kg	78		MCAWW 353.2	09/28-09/30/09	9271327
	ND	61.8	47.2	mg/kg	76	1.0	MCAWW 353.2	09/28-09/30/09	9271327
			Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I120178 **Matrix.....:** WATER
Date Sampled...: 09/15/09 **Date Received..:** 09/17/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		WO#:	LK2A41AD-MS/LK2A41AE-MSD			MS Lot-Sample #: G9I170350-001	
	72	(26 - 144)			MCAWW 353.2	09/29-09/30/09	9272300
	80	(26 - 144)	10	(0-45)	MCAWW 353.2	09/29-09/30/09	9272300
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9I120178 **Matrix.....:** WATER
Date Sampled...: 09/15/09 **Date Received..:** 09/17/09

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose			WO#: LK2A41AD-MS/LK2A41AE-MSD				MS Lot-Sample #: G9I170350-001		
	ND	2.03	1.47	mg/L	72		MCAWW 353.2	09/29-09/30/09	9272300
	ND	2.03	1.63	mg/L	80	10	MCAWW 353.2	09/29-09/30/09	9272300
			Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I120178 **Work Order #...:** LKN1Q-SMP LKN1Q-DUP **Matrix.....:** SOLID

Date Sampled...: 09/09/09 **Date Received..:** 09/11/09

% Moisture.....: 15

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture						SD Lot-Sample #:	G9I110353-002	
	15.2	16.3	%	6.6	(0-20)	ASTM D 2216-90	10/02-10/05/09	9275468

Dilution Factor: 1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

October 9, 2009

TestAmerica Project Number: G9I150199
PO/Contract: 23/19-B05.07 S1R1 300

Kelly Neppl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Dear Ms. Neppl,

This report contains the analytical results for the samples received under chain of custody by TestAmerica on September 15, 2009. These samples are associated with your UMore Park project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4442.

Sincerely,

Karen Sellers

Karen M. Sellers
Project Manager

Table of Contents

TestAmerica West Sacramento Project Number G9I150199

Case Narrative

Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

General Chemistry - Various Methods
Samples: 1, 2, 3, 4
- Sample Data Sheet
- Method Blank Report
- Laboratory QC Reports

Case Narrative

TestAmerica West Sacramento Project Number G9I150199

General Comments

Nitrocellulose for the sample FB-1 (Groundwater) and perchlorate for sample FB-2 (Geoprobe) were cancelled by the client on September 16, 2009.

There are no anomalies associated with this project.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ACCREDITED IN ACCORDANCE WITH nelac

TestAmerica Laboratories West Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	New York*	11666
Arizona	AZ0708	Oregon*	CA 200005
Arkansas	88-0691	Pennsylvania	68-1272
California*	01119CA	South Carolina	87014
Colorado	NA	Texas	T104704399-08-TX
Connecticut	PH-0691	Utah*	QUAN1
Florida*	E87570	Virginia	00178
Georgia	960	Washington	C1281
Hawaii	NA	West Virginia	9930C, 334
Illinois	200060	Wisconsin	998204680
Kansas*	E-10375	NFESC	NA
Louisiana*	30612	USACE	NA
Michigan	9947	USDA Foreign Plant	37-82605
Nevada	CA44	USDA Foreign Soil	P330-09-00055
New Jersey*	CA005	US Fish & Wildlife	LE148388-0
New Mexico	NA	Guam	09-014r

*NELAP accredited. A more detailed parameter list is available upon request. Updated 3/25/2009

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

Sample Summary

TestAmerica West Sacramento Project Number G9I150199

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
LKTLJ	1	SOC4-GP2(1-3)	9/11/2009 09:15 AM	9/15/2009 09:10 AM
LKTLM	2	SOC4-GP3(1-3)	9/11/2009 10:00 AM	9/15/2009 09:10 AM
LKTLN	3	FB-1 (GROUNDWATER)	9/11/2009 12:00 PM	9/15/2009 09:10 AM
LKTLR	4	FB-2 (GEOPROBE)	9/11/2009 12:05 PM	9/15/2009 09:10 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

G9I150199

Chain of Custody

BARR

4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

COC 1 of 1

Project Number: 23/19-B05.07 SIR1 300

Project Name: UMA SS1/R1

Sample Origination State: M N (use two letter postal state abbreviation)

COC Number: № 29007

Project Manager: SME

Project QC Contact: KJN

Sampled by: EJC

Laboratory: TestAmerica

Number of Containers/Preservative

Location	Start Depth	Stop Depth	Depth Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Water: VOCs (HCl) #1	Water: SVOCs (unpreserved) #2	Water: Dissolved Metals (HNO_3)	Water: Total Metals (HNO_3)	Water: General (unpreserved) #3	Water: Diesel Range Organics (HCl)	Water: Nutrients (H_2SO_4) #4	Water: Nitrocellulose	Water: Perchlorate	Soil: VOCs (tared MeOH) #1	Soil: GRO, BTEX (tared MeOH) #1	Soil: DRO (tared unpreserved)	Soil: Metals (unpreserved)	Soil: SVOCs (unpreserved) #2	Soil: % Solids (plastic vial, unpres.)	Soil: Nitrocellulose	Total Number Of Containers	
1. SOC4-GP2(1-3)	1	3	ft	9-11-09	0915		X	X																	2	2		Nitrocellulose See attached list
2. SOC4-GP3(1-3)	1	3	ft	9-11-09	1000		X	X																	2	2		"
3. FB-1 (Groundwater)	—	—	—	9-11-09	1200	X				X	~~3~~	~~2~~	~~3~~				1	1		Same notes for FB-1 and FB-2							2	~~VOCs, SVOCs, PPL (Lab (FF)~~ ~~See attached list~~
4. FB-2 (Geoprobe)	—	—	—	9-11-09	1205	X				X	~~3~~	~~2~~	~~3~~				1	1									2	Nitrocellulose, Perchlorate see attached list
5.																												
6.																												
7.																												
8.																												
9.																												
10.																												

Common Parameter/Container - Preservation Key

#1 - Volatile Organics = BTEX, GRO, TPH, 8260 Full List
#2 - Semivolatile Organics = PAHs, PCP, Dioxins, 8270 Full List, Herbicide/Pesticide/PCBs
#3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
#4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
[signature]	(Y) N	9/14/09	1000	[signature]	9-14	1315
[signature]	(Y) N	9-14	1710	Chang Lee	9/15/09	0950

Samples Shipped VIA: ☐ Air Freight ☐ Federal Express ☐ Sampler ☐ Other:

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

TestAmerica West Sacramento (916) 373 - 5600

H:\RLG\STDFORMS\Chain Of Custody Form 2009 RLG Rev 09\01\09

UMP019880

TestAmerica West Sacramento

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Bottle Lot Inventory

Lot ID: G9I150199

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*																				
VOAh*																				
AGB																				
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB			1	1																
____AGJ																				
500AGJ																				
250AGJ																				
125AGJ	2	2																		
____CGJ																				
500CGJ																				
250CGJ																				
125CGJ																				
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ			1																	
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
_____"CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

h = hydrochloric acid **s** = sulfuric acid **na** = sodium hydroxide **n** = nitric acid **zn** = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

QA-185 4/09 RKE

LEAVE NO SPACES BLANK USE "NA" IF NOT APPLICABLE

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

LOT RECEIPT CHECKLIST
TestAmerica West Sacramento

CLIENT Barr PM KS LOG # 60708

LOT# (QUANTIMS ID) G9I150199 QUOTE# 83148 LOCATION W7A

		Initials	Date
DATE RECEIVED 9/15/09 TIME RECEIVED 0910		CV	9/15/09
DELIVERED BY	☑ FEDEX ☐ CA OVERNIGHT ☐ CLIENT ☐ AIRBORNE ☐ GOLDENSTATE ☐ DHL ☐ UPS ☐ BAX GLOBAL ☐ GO-GETTERS ☐ TAL COURIER ☐ VALLEY LOGISTICS ☐ MORGAN HILL COURIER ☐ OTHER		
CUSTODY SEAL STATUS	☑ INTACT ☐ BROKEN ☐ N/A		
CUSTODY SEAL #(S) Seal			
SHIPPPING CONTAINER(S)	☑ TAL ☐ CLIENT ☐ N/A		
TEMPERTURE RECORD (IN °C)	IR 4 ☐ 5 ☑ ☐ OTHER		
COC #(S)	CI 9/15/09 29007		
TEMPERATURE BLANK	Observed 0 Corrected 2		
SAMPLE TEMPERATURE	Observed 4 6 5 Average 5 Corrected Average 5		
COLLECTOR'S NAME:	☑ Verified from COC ☐ Not on COC		
pH MEASURED	☐ YES ☐ ANOMALY ☑ N/A		
LABELED BY			
LABELS CHECKED BY			
PEER REVIEW	☑ NA		
SHORT HOLD TEST NOTIFICATION	SAMPLE RECEIVING		
	WETCHEM ☑ N/A		
	VOA-ENCORES ☑ N/A		
☐ METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL	☑ N/A		
☑ COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES	☐ N/A		
☐ CLOUSEAU	☐ TEMPERATURE EXCEEDED (2 °C – 6 °C)*1 ☑ N/A		

☐ WET ICE ☐ BLUE ICE ☐ GEL PACK ☐ NO COOLING AGENTS USED ☐ PM NOTIFIED

Notes FB - 2 requests perchlorate - Only 1 container was rec'd
No sterile container for perchlorate

*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C

UMP019882

General Chemistry - Various Methods

Barr Engineering Company

Client Sample ID: SOC4-GP2(1-3)

General Chemistry

Lot-Sample #...: G9I150199-001 **Work Order #...:** LKTLJ **Matrix.....:** SO
Date Sampled...: 09/11/09 **Date Received..:** 09/15/09
% Moisture.....: 13

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	5.7	mg/kg	MCAWW 353.2	09/28-09/30/09	9271327
		Dilution Factor: 1				
Percent Moisture	**12.9**	**0.10**	**%**	**ASTM D 2216-90**	**10/02-10/05/09**	**9275468**
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Barr Engineering Company

Client Sample ID: SOC4-GP3(1-3)

General Chemistry

Lot-Sample #...: G9I150199-002 **Work Order #...:** LKTLM **Matrix.....:** SO
Date Sampled...: 09/11/09 **Date Received..:** 09/15/09
% Moisture.....: 14

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	5.8	mg/kg	MCAWW 353.2	09/28-09/30/09	9271327
		Dilution Factor: 1				
Percent Moisture	**14.5**	**0.10**	**%**	**ASTM D 2216-90**	**10/02-10/05/09**	**9275468**
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Barr Engineering Company

Client Sample ID: FB-1 (GROUNDWATER)

General Chemistry

Lot-Sample #...: G9I150199-003 **Work Order #...:** LKTLN **Matrix.....:** W
Date Sampled...: 09/11/09 **Date Received..:** 09/15/09

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate	ND	4.0	ug/L	EPA-DW1 314.0	09/30/09	9274483

Dilution Factor: 1

Barr Engineering Company

Client Sample ID: FB-2 (GEOPROBE)

General Chemistry

Lot-Sample #...: G9I150199-004 **Work Order #...:** LKTLR **Matrix.....:** W
Date Sampled...: 09/11/09 **Date Received..:** 09/15/09

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	09/29-09/30/09	9272300

Dilution Factor: 1

QC DATA ASSOCIATION SUMMARY

G9I150199

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SO	ASTM D 2216-90		9275468	9275311
	SO	MCAWW 353.2		9271327	9271214
002	SO	ASTM D 2216-90		9275468	9275311
	SO	MCAWW 353.2		9271327	9271214
003	W	EPA-DW1 314.0		9274483	9274265
004	W	MCAWW 353.2		9272300	9272154

METHOD BLANK REPORT

General Chemistry

Client Lot #...: G9I150199 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LLLXD1AA		MB Lot-Sample #:	G9I280000-327	
	ND	5.0	mg/kg	MCAWW 353.2	09/28-09/30/09	9271327
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: G9I150199 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LLM5X1AA		MB Lot-Sample #:	G9I290000-300	
	ND	0.50	mg/L	MCAWW 353.2	09/29-09/30/09	9272300
		Dilution Factor: 1				
Perchlorate		Work Order #: LLT771AA		MB Lot-Sample #:	G9J010000-483	
	ND	4.0	ug/L	EPA-DW1 314.0	09/30/09	9274483
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I150199 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LLLXD1AC	LCS Lot-Sample#: G9I280000-327		
	61	(34 - 115)	MCAWW 353.2	09/28-09/30/09	9271327
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9I150199 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose			Work Order #: LLLXD1AC		LCS Lot-Sample#: G9I280000-327		
	50.7	30.7	mg/kg	61	MCAWW 353.2	09/28-09/30/09	9271327
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I150199 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LLM5X1AC	LCS Lot-Sample#: G9I290000-300		
	86	(26 - 144)	MCAWW 353.2	09/29-09/30/09	9272300
		Dilution Factor: 1			
Perchlorate		Work Order #: LLT771AC	LCS Lot-Sample#: G9J010000-483		
	103	(85 - 115)	EPA-DW1 314.0	09/30/09	9274483
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9I150199 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose			Work Order #: LLM5X1AC LCS Lot-Sample#: G9I290000-300				
	2.03	1.75	mg/L	86	MCAWW 353.2	09/29-09/30/09	9272300
			Dilution Factor: 1				
Perchlorate			Work Order #: LLT771AC LCS Lot-Sample#: G9J010000-483				
	50.0	51.3	ug/L	103	EPA-DW1 314.0	09/30/09	9274483
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I150199 **Matrix.....:** SOLID
Date Sampled...: 09/10/09 **Date Received..:** 09/12/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
						% Moisture.....: 18	
Nitrocellulose		WO#: LKPX41AC-MS/LKPX41AD-MSD				MS Lot-Sample #: G9I120178-010	
	78	(34 - 115)			MCAWW 353.2	09/28-09/30/09	9271327
	76	(34 - 115)	1.0	(0-71)	MCAWW 353.2	09/28-09/30/09	9271327
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9I150199 **Matrix.....:** SOLID
Date Sampled...: 09/10/09 **Date Received..:** 09/12/09

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
								% Moisture.....: 18	
Nitrocellulose			WO#: LKPX41AC-MS/LKPX41AD-MSD				MS Lot-Sample #: G9I120178-010		
	ND	61.4	47.7	mg/kg	78		MCAWW 353.2	09/28-09/30/09	9271327
	ND	61.8	47.2	mg/kg	76	1.0	MCAWW 353.2	09/28-09/30/09	9271327
			Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I150199 **Matrix.....:** WATER
Date Sampled...: 09/15/09 **Date Received..:** 09/17/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		WO#: LK2A41AD-MS/LK2A41AE-MSD				MS Lot-Sample #: G9I170350-001	
	72	(26 - 144)			MCAWW 353.2	09/29-09/30/09	9272300
	80	(26 - 144)	10	(0-45)	MCAWW 353.2	09/29-09/30/09	9272300
		Dilution Factor: 1					
Perchlorate		WO#: LK2A41AF-MS/LK2A41AG-MSD				MS Lot-Sample #: G9I170350-001	
	104	(80 - 120)			EPA-DW1 314.0	09/30/09	9274483
	105	(80 - 120)	0.66	(0-20)	EPA-DW1 314.0	09/30/09	9274483
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9I150199 **Matrix.....:** WATER
Date Sampled...: 09/15/09 **Date Received..:** 09/17/09

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose			WO#: LK2A41AD-MS/LK2A41AE-MSD				MS Lot-Sample #: G9I170350-001		
	ND	2.03	1.47	mg/L	72		MCAWW 353.2	09/29-09/30/09	9272300
	ND	2.03	1.63	mg/L	80	10	MCAWW 353.2	09/29-09/30/09	9272300
			Dilution Factor: 1						
Perchlorate			WO#: LK2A41AF-MS/LK2A41AG-MSD				MS Lot-Sample #: G9I170350-001		
	ND	50.0	52.1	ug/L	104		EPA-DW1 314.0	09/30/09	9274483
	ND	50.0	52.4	ug/L	105	0.66	EPA-DW1 314.0	09/30/09	9274483
			Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I150199 **Work Order #...:** LKN1Q-SMP **Matrix.....:** SOLID
LKN1Q-DUP

Date Sampled...: 09/09/09 **Date Received..:** 09/11/09

% Moisture.....: 15

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture						SD Lot-Sample #:	G9I110353-002	
	15.2	16.3	%	6.6	(0-20)	ASTM D 2216-90	10/02-10/05/09	9275468

Dilution Factor: 1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

November 2, 2009

TestAmerica Project Number: G9J020298
PO/Contract: 23/19-0B05 S1R1 300

Kelly Neppl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Dear Mr. Neppl,

This report contains the analytical results for the sample received under chain of custody by TestAmerica on October 2, 2009. This sample is associated with your UMore Park project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4442.

Sincerely,

Karen Sellers

Karen M. Sellers
Project Manager

Table of Contents

TestAmerica West Sacramento Project Number G9J020298

Case Narrative

Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

General Chemistry - Various Methods
Samples: 1
- Sample Data Sheet
- Method Blank Report
- Laboratory QC Reports

Case Narrative

TestAmerica West Sacramento Project Number G9J020298

There are no anomalies associated with this project.

TestAmerica Laboratories West Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	New York*	11666
Arizona	AZ0708	Oregon*	CA 200005
Arkansas	88-0691	Pennsylvania	68-1272
California*	01119CA	South Carolina	87014
Colorado	NA	Texas	T104704399-08-TX
Connecticut	PH-0691	Utah*	QUAN1
Florida*	E87570	Virginia	00178
Georgia	960	Washington	C1281
Hawaii	NA	West Virginia	9930C, 334
Illinois	200060	Wisconsin	998204680
Kansas*	E-10375	NFESC	NA
Louisiana*	30612	USACE	NA
Michigan	9947	USDA Foreign Plant	37-82605
Nevada	CA44	USDA Foreign Soil	P330-09-00055
New Jersey*	CA005	US Fish & Wildlife	LE148388-0
New Mexico	NA	Guam	09-014r

*NELAP accredited. A more detailed parameter list is available upon request. Updated 3/25/2009

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

Sample Summary

TestAmerica West Sacramento Project Number G9J020298

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
LLXQK	1	WSW-207605	9/29/2009 11:55 AM	10/2/2009 09:35 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as “ND” were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

G9J020[illegible]

BARR

Chain of Custody

4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number: 23/19-0B05 SIR1 300

Project Name

№ 27901

COC _____ of _____

Project Manager: JME

Project Contact: KJN

Sampled by: KSJ

Laboratory: Test America

Sample Identification	Collection Date	Collection Time	Matrix: Water	Matrix: Soil	Matrix:	Type: Grab	Type: Comp.	Type: QC	Water: Volatile Organics (Pres.) *1	Water: Semivolatile Organics *2	Water: Dissolved Metals (HNO_3)	Water: Total Metals (HNO_3)	Water: General (Unpreserved) *3	Water: Cyanide (NaOH)	Water: Nutrients (H_2SO_4) *4	Water: Oil and Grease (H_2SO_4)	Water: Sulfide (Zn Acetate)	Water: Methane	Water: Bacteria ($Na_2S_2O_3$)	Water: DRO (HCl)	Soil: VOCs (2-oz tared MeOH) *1	Soil: GRO, BTEX (2-oz tared MeOH) *1	Soil: DRO (2-oz tared) - 25 grams	Soil: Metals (2-oz unpreserved)	Soil: SVOCs (2 or 4-oz unpres.) *2	Soil: % Moisture (plastic vial, unpres.)	Total No. Of Containers	Remarks:
1. WSW-207605	9/29/09	1155	✓			✓				1			1														2	Table 1, Perchlorate, & Nitrocellulose
2.																												
3.																												
4.																												
5.																												
6.																												
7.																												
8.																												
9.																												
10.																												
11.																												
12.																												

Common Parameter/Container - Preservation Key

*1 - Volatile Organics = BTEX, GRO, TPH, Full List
*2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
*3 - General = pH, Chloride, Flouride, Alkalinity, TSS, TDS, TS, Sulfate
*4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
Kim Shannon	(Y) N	10/30/09	1600	Gary Baker	10-1-09	1710
Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
Gary Baker	(Y) N	10-1	1745	[illegible]	10/2/09	1215

Samples Shipped VIA: ☐ Air Freight ☒ Federal Express ☐ Sampler ☐ Other _____

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

H:\RLG\STDFORMS\Chain Of Custody Form RLG Rev. 07/01/05

TestAmerica West Sacramento (916) 373 - 5600

UMP019905

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

LOT RECEIPT CHECKLIST
TestAmerica West Sacramento

CLIENT Barr PM CS LOG # 61083

LOT# (QUANTIMS ID) G9J020298 QUOTE# 83148 LOCATION W18B

Checked (✓)

DATE RECEIVED 10/2/09 TIME RECEIVED 0935 ☑

DELIVERED BY ☑ FEDEX ☐ ON TRAC ☐ CLIENT
☐ GOLDENSTATE ☐ UPS ☐ GO-GETTERS
☐ TAL COURIER ☐ VALLEY LOGISTICS ☐ OTHER
☐ TAL SF ☑

CUSTODY SEAL STATUS ☐ INTACT ☐ BROKEN ☑ N/A ☑

CUSTODY SEAL #(S) _____

SHIPPPING CONTAINER(S) ☐ TAL ☑ CLIENT ☐ N/A ☑

TEMPERTURE RECORD (IN °C) IR 4☐ 5☑ ☐ OTHER _____ ☑

COC #(S) 27901 ☑

TEMPERATURE BLANK Observed: ~~[illegible]~~ 2 Corrected: 4
10/2/09

SAMPLE TEMPERATURE
Observed: 3.4 Average 4 Corrected Average 4

COLLECTOR'S NAME: ☑ Verified from COC ☐ Not on COC Initials CV Date 10/2/09

==========

pH MEASURED ☐ YES ☐ ANOMALY ☑ N/A ☑
LABELED BY..... ☑
LABELS CHECKED BY..... ☑
PEER REVIEW _____ ☑ NA

SHORT HOLD TEST NOTIFICATION
SAMPLE RECEIVING ☑
WETCHEM ☑ N/A ☑
VOA-ENCORES ☑ N/A ☑

☐ METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL ☑ N/A ☑

☑ COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES ☐ N/A ☑

☐ CLOUSEA ☐ TEMPERATURE EXCEEDED (2 °C – 6 °C)*1 ☑ N/A
☐ WET ICE ☐ BLUE ICE ☐ GEL PACK ☐ NO COOLING AGENTS USED ☐ PM NOTIFIED

Initials CV Date 10/2/09

Notes _____

*1 Acceptable temperature range for State of Wisconsin samples is≤4°C.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Bottle Lot Inventory

Lot ID: G9J020298

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*																				
VOAh*																				
AGB																				
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB	/																			
____AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
____CGJ																				
500CGJ																				
250CGJ																				
125CGJ																				
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ	/																			
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
_____"CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

h = hydrochloric acid **s** = sulfuric acid **na** = sodium hydroxide **n** = nitric acid **zn** = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

QA-185 5/05 EM

Page 3

LEAVE NO SPACES BLANK. USE "N/A" IF NOT APPLICABLE. INITIAL AND DATE ALL "N/A" ENTRIES

General Chemistry - Various Methods

Barr Engineering Company

Client Sample ID: WSW-207605

General Chemistry

Lot-Sample #...: G9J020298-001 **Work Order #...:** LLXQK **Matrix.....:** W
Date Sampled...: 09/29/09 **Date Received..:** 10/02/09

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	10/22-10/29/09	9295276
		Dilution Factor: 1				
Perchlorate	ND	4.0	ug/L	EPA-DW1 314.0	10/08/09	9282490
		Dilution Factor: 1				

QC DATA ASSOCIATION SUMMARY

G9J020298

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	W	MCAWW 353.2		9295276	9295138
	W	EPA-DW1 314.0		9282490	9282312

METHOD BLANK REPORT

General Chemistry

Client Lot #...: G9J020298 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LM3MJ1AA		MB Lot-Sample #:	G9J220000-276	
	ND	0.50	mg/L	MCAWW 353.2	10/22-10/29/09	9295276
		Dilution Factor: 1				
Perchlorate		Work Order #: LMC2G1AA		MB Lot-Sample #:	G9J090000-490	
	ND	4.0	ug/L	EPA-DW1 314.0	10/08/09	9282490
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9J020298 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		Work Order #: LM3MJ1AC	LCS Lot-Sample#: G9J220000-276		
	66	(26 - 144)	MCAWW 353.2	10/22-10/29/09	9295276
		Dilution Factor: 1			
Perchlorate		Work Order #: LMC2G1AC	LCS Lot-Sample#: G9J090000-490		
	110	(85 - 115)	EPA-DW1 314.0	10/08/09	9282490
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9J020298 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose			Work Order #: LM3MJ1AC		LCS Lot-Sample#: G9J220000-276		
	2.04	1.34	mg/L	66	MCAWW 353.2	10/22-10/29/09	9295276
			Dilution Factor: 1				
Perchlorate			Work Order #: LMC2G1AC		LCS Lot-Sample#: G9J090000-490		
	50.0	54.9	ug/L	110	EPA-DW1 314.0	10/08/09	9282490
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9J020298 **Matrix.....:** W
Date Sampled...: 09/29/09 **Date Received..:** 10/02/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose		WO#: LLXQK1AF-MS/LLXQK1AG-MSD				MS Lot-Sample #: G9J020298-001	
	96	(26 - 144)			MCAWW 353.2	10/22-10/29/09	9295276
	83	(26 - 144)	14	(0-45)	MCAWW 353.2	10/22-10/29/09	9295276
		Dilution Factor: 1					
Perchlorate		WO#: LLXQK1AD-MS/LLXQK1AE-MSD				MS Lot-Sample #: G9J020298-001	
	108	(80 - 120)			EPA-DW1 314.0	10/08/09	9282490
	111	(80 - 120)	2.7	(0-20)	EPA-DW1 314.0	10/08/09	9282490
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9J020298 **Matrix.....:** W
Date Sampled...: 09/29/09 **Date Received..:** 10/02/09

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrocellulose			WO#: LLXQK1AF-MS/LLXQK1AG-MSD				MS Lot-Sample #: G9J020298-001		
	ND	2.04	2.09	mg/L	96		MCAWW 353.2	10/22-10/29/09	9295276
	ND	2.04	1.82	mg/L	83	14	MCAWW 353.2	10/22-10/29/09	9295276
			Dilution Factor: 1						
Perchlorate			WO#: LLXQK1AD-MS/LLXQK1AE-MSD				MS Lot-Sample #: G9J020298-001		
	ND	50.0	54.1	ug/L	108		EPA-DW1 314.0	10/08/09	9282490
	ND	50.0	55.6	ug/L	111	2.7	EPA-DW1 314.0	10/08/09	9282490
			Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.