

Appendix H

Quality Assurance/Quality Control Review

Analytical Quality Control Summary

Quality control data from the Supplemental Site Inspection and Remedial Investigation (SSI/RI) was evaluated to assess the integrity and validity of the analytical data obtained from the sample analysis.

A review was performed in accordance with the Barr's standard operation procedures (SOPs) for routine general chemistry, level metals, volatile organic compounds (VOCs), and semivolatile organic compounds (SVOCs) data validation, which are based on The National Functional Guidelines for Inorganic and Organic Data Review (EPA, 2004/2005). The groundwater and soil samples were collected by Barr. Legend Technical Services (Legend) of St. Paul, Minnesota performed the total and dissolved metals, SVOCs, and VOCs analyses; Braun Intertec of Minneapolis, Minnesota performed the Minnesota Department of Agriculture (MDA) List 1 and 2 pesticide, organochlorine (OC) pesticides, nitrate plus nitrite as nitrogen, and total kjeldahl nitrogen analyses; and TestAmerica of West Sacramento, California performed the perchlorate and nitrocellulose analyses.

Laboratory reports are included in Appendix F. Per the Quality Assurance Project Plan (QAPP), MDA List 1 and 2 pesticides, SVOCs, and VOCs concentrations greater than the method detection limit (MDL) and below the laboratory reporting limit (RL) are footnoted with a "j" indicating estimated concentrations.

The laboratories followed their internal quality assurance/quality control practices as described in their laboratory quality assurance manuals and the QAPP.

The quality control procedures followed during the collection and analysis of the groundwater and soil samples are described in the QAPP, and are used to assess the data quality produced for this investigation. Field quality control procedures included the use of approved methods of sample collection and the use of field and trip blank samples and field (masked) duplicate sample analysis. Quality control procedures conducted in the laboratory included the use of approved methods, meeting EPA recommended holding times, the analysis of laboratory method blank and duplicate samples, the analysis of laboratory control samples and matrix spike samples, and measuring surrogate spike recoveries.

The data are useable as reported and qualified to fulfill the data quality objectives for sensitivity, accuracy and precision as specified in the QAPP. The following sections provide specific validation details.

Field Quality Control

Trip and field blank samples were collected to monitor contamination from decontamination procedures, sampling activities, sample transport and storage, and laboratory procedures. Three trip blank and nine field blank samples were collected and analyzed during the sampling event. The trip blanks associated with the samples collected for this event had no positive detections above the MDL and the RL of target analytes.

Three field blank samples had detections above the MDL but below the RL for the target analytes antimony and benzoic acid, however, no samples were qualified due to associated sample concentrations being non-detect for antimony and benzoic acid. Except for one case, the nine field blank samples had no positive detection above the laboratory RL for the target analytes. The field blank sample collected on September 15, 2009 had a total thallium detection of 0.14 μ g/L. Following the SOPs for data review, sample concentrations less than 5 times the field blank sample concentrations are “b” qualified indicating potentially false positive concentrations. This affected total thallium for sample WSW-208402 and WSW-208405 and are qualified as presented in the data summary tables.

The precision of the field duplicate samples was determined by calculating the relative percent difference (RPD) for compounds where both the native sample and the duplicate sample had detectable concentrations.

The RPD formula is as follows:

$$RPD = \frac{(D_1 - D_2)}{(D_1 + D_2)/2} \times 100$$

Where: D_1 = concentration of original sample
 D_2 = concentration of duplicate sample

Six masked field duplicate samples were collected during the SSI/RI event. The analytical results are presented in Table H-2. The RPDs for the masked field duplicate samples met the RPD criteria in the QAPP except where noted below. The RPD for water samples SOC5-GP1 and its associated field duplicate (SOC5-DUP1) exceeded the 30% criteria for aqueous samples for chloromethane; therefore, the associated data were “*” qualified indicating estimated concentrations. The RPD for chromium and zinc for soil samples SOC4-TT9-6 and its associated field duplicate (M2) exceeded the 40% RPD criteria for soil samples, therefore, the data were “*” qualified indicating estimated concentrations.

Laboratory Quality Control

The preparation and analytical holding times met EPA recommendations for the target parameters, with the following exceptions. One cooler arrived at Legend twenty-four hours after sampling and had an elevated temperature of 9.3 degrees Celsius. The cooler contained only one water sample (SOC5-GP4) which required VOCs, SVOCs, and dissolved metal analyses. In accordance with Barr's SOPs for routine level general chemistry, metals, VOCs, and SVOCs data validation, elevated temperatures past five hours of sampling could impact sample concentrations. Exercising professional judgment for the data of SOC5-GP4, the VOCs data were "h" qualified indicating potential low bias concentration.

Samples were collected and analyzed using methods consistent with the soil sampling approach described in the Minnesota Department of Agriculture (MDA) Guidance Document 11 (*Soil Sampling Guidance, October 2005*). On September 1, 2009 soil samples were collected at three discrete depths (intervals of 0.5-foot, 2 to 2.5-foot, and 4.5 to 5-foot) for locations SOC5-GP12, SOC5-GP13, SOC5-GP14 and SOC5-GP27. The 2 to 2.5-foot samples for these locations were analyzed immediately (i.e. within a few days) upon receipt at the laboratory; the 0.5-foot and the 4.5 to 5-foot discrete samples were stored frozen at the laboratory for potential future analysis. In accordance with MDA Guidance Document 11 (*Soil Sampling Guidance, October 2005*), soil samples can be stored frozen up to six months before affecting hold times. It is Barr's opinion that the extraction hold times begin immediately once the samples are removed from the freezer to thaw out. Analysis for percent solids, OC Pesticides, and MDA List 1 and 2 were requested on September 24, 2009 for the shallower depths (0.5-foot) from locations SOC5-GP12, SOC5-GP13, SOC5-GP14, and SOC5-GP27. Samples were removed from frozen storage and placed in the sample custodian cooler (~4 degrees C) on September 24, 2009; however, the samples were not extracted until October 13, 2009. This timeframe exceeded the 14 day hold time cited in the laboratory SOPs; therefore, the percent solids, OC Pesticides, and MDA List 1 and 2 data were "h" qualified as analyzed past hold for the 0.5-foot depth interval at locations SOC5-GP12, SOC5-GP13, SOC5-GP14, and SOC5-GP27. One sample was analyzed one day outside of EPA recommended holding time for percent solids and data was "h" qualified accordingly for location SOC5-TT29-6.

Trace concentrations of di-n-buyt phthalate was detected above the MDL and below the RL in one laboratory blank sample. The associated project sample whose concentrations were within five times the lab blank sample concentration were "b" qualified and should be considered potential false positive concentrations. This laboratory blank sample affected di-n-buyt phthalate for the following eight samples: SOC5-GP5-1.5-2.5, SOC5-GP5-10-12, SOC5-GP6-1-2, SOC5-GP6-18-20, SOC5-

SS5-0.5, SOC5-SS9-0.5, SOC5-SS28-0.5, and SOC5-SS32-0.5. No other target analytes were present above the laboratory reporting limit in the laboratory blank samples.

The laboratory batch duplicate sample RPDs met the laboratory acceptance criteria for the target analytes indicating that an acceptable level of precision was achieved.

The majority of the laboratory control sample/ laboratory control sample duplicates (LCS/LCSD), and matrix spike/matrix spike duplicate (MS/MSD), percent recoveries, and RPDs were within the applicable acceptance criterion indicating in-control analytical systems during the analysis of project samples. The laboratory reports are presented in Appendix F.

In all but four cases, the LCS/LCSD percent recoveries and RPDs met the established laboratory criteria. The LCS/LCSD percent recoveries for dinoseb for MDA List 2 pesticides were below the lab acceptance criteria of 30-120% in one LCS/LCSD pair. The dinoseb results for samples, SOC5-GP12-0.5-1, SOC5-GP13-0.5-1, SOC5-GP14-0.5-1 and SOC5-GP27-0.5-1, were “*” qualified and should be considered estimated based on the LCS/LCSD data. Sample SOC5-GP14-0.5-1 was also spiked as the MS/MSD sample. The dinoseb MS/MSD percent recoveries (25.4 and 23.4%) were below the expected criteria; however, no additional qualification was necessary because the sample results were already “*” qualified based upon the failing LCS/LCSD percent recoveries.

The LCS/LCSD and MS/MSD percent recoveries for the soil analytical batches were consistently below the laboratory acceptance limits for picloram which is a MDA List 2 pesticide. The project related soil samples were “*” qualified (estimated) based on the low LCS and MS/MSD percent recoveries for picloram. The percent recoveries for picloram was below the laboratory limits for one MS/MSD soil sample, however, no data were qualified because the MS/MSD sample was not associated with the project. No qualification was applied to picloram for the water samples because the LCS percent recoveries met the applicable laboratory criteria in that sample matrix.

The LCS recoveries for 4-4-DDT were below the laboratory acceptance criteria; however, no data were qualified because the deviations were minor (<7%).

The MS/MSD percent recoveries and RPD data indicate that laboratory achieved acceptable precision and accuracy except where detailed below. The percent recoveries and RPDs for one or more MS/MSD samples exceeded the laboratory acceptance criterion for: beryllium, copper, endrin aldehyde, pentachlorophenol (PCP), and zinc. All associated project sample data where MS/MSD percent recoveries exceeded the laboratory acceptance criteria by 8% or more were “*” qualified (estimated) in the data summary tables. This affected beryllium (WSW-207605, SOC5-GP1 and its duplicate SOC5-DUP1); copper (SOC4-TT12-0.5 and its duplicate M1); endrin aldehyde (SOC5-

SS8-0.5, SOC4-TT12-0.5 and its field duplicate M1); PCP (SOC5-GP3); and zinc (SOC4-GP4-1-2 and SOC5-TT7-4-4). Two MS/MSD RPDs exceeded the laboratory limits for zinc; however, no qualifiers were applied since these samples were not our project samples.

One nitrocellulose MS/MSD RPD (76%) for a project related water sample was above the laboratory acceptance criteria of 0-45%; however, no data were qualified because the MS/MSD percent recoveries were within the laboratory limits. This MS/MSD sample (MS/MSD-Water) is a project related sample, but was collected improperly and therefore is not included on the table summaries. Additionally, the MSD sample was spilled in the extraction area at the laboratory and approximately half the sample was lost, potentially lowering the recoveries for the MSD. No qualification occurred from this incidence.

The LCS/LCSD RPD recoveries for 4,4,5-T were above the laboratory acceptance criteria; however, no data were qualified because the deviations were minor (<7%). One or more surrogate percent recoveries were below the laboratory acceptance criteria for MDA List 1 and List 2 pesticide analyses. Six MDA List 1 compounds for sample SOC5-M1 (SOC5-SS10-0.5-DUP) were “*” qualified (estimated) for the percent recovery (41.4%) of the MDA List 1 surrogate atrazine-d5, which was below the laboratory criteria 50-125%. This affected correlated MDA List 1 compounds atrazine, cyanazine, diisopropylatrazine, picloram, propazine, and simazine for sample SOC5-M1.

The MDA List 2 DCAA (2,4-dichlorophenylacetic acid) surrogate recovery (8%) was below the laboratory criteria of 50-125% for sample SOC5-SS7-0.5. Since DCAA is the only surrogate used for the MDA List 2 pesticide test method and its recovery was substantially below the laboratory acceptance limits, all MDA List 2 compounds data were “*”qualified estimated.

Table H-1
Soil/Groundwater Sampling Results - QC Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code	Lab Blank 08/31/2009 LB	Lab Blank 09/01/2009 LB	Lab Blank 09/01/2009 LB	Field Blank 09/01/2009 FB	Lab Blank 09/03/2009 LB	Lab Blank 09/08/2009 LB	Lab Blank 09/09/2009 LB	Lab Blank 09/09/2009 LB	Lab Blank 09/10/2009 LB	Field Blank 09/10/2009 FB	Field Blank 09/11/2009 FB	Lab Blank 09/11/2009 LB	Field Blank 09/11/2009 FB	
Chemical Name														
General Parameters														
Nitrate + Nitrite	--	< 0.020 mg/l	--	--	--	--	< 0.020 mg/l	--	< 0.020 mg/l	--	0.020 ± mg/l	0.020 ± mg/l	< 0.020 mg/l	
Nitrocellulose	--	--	--	< 0.50 mg/l	--	--	--	--	--	< 0.50 mg/l	--	--	--	
Nitrogen total kjeldahl	--	< 0.50 mg/l	--	--	--	< 0.50 mg/l	< 0.50 mg/l	--	--	--	--	--	--	< 0.50 mg/l
Perchlorate	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Solids, percent	< 0.050 %	--	< 0.050 %	--	< 0.050 %	--	--	< 0.050 %	--	--	--	--	--	--

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Sys Loc Code	Field Blank 09/11/2009	Field Blank FB	Lab Blank 09/11/2009	Lab Blank 09/14/2009	Field Blank 09/14/2009	Lab Blank 09/15/2009	Lab Blank 09/15/2009	Field Blank 09/15/2009	Lab Blank 09/16/2009	Lab Blank 09/18/2009	Lab Blank 09/22/2009	Lab Blank 09/22/2009	Lab Blank 09/23/2009	
Sample Date	09/11/2009	FB	LB	LB	FB	LB	LB	FB	LB	LB	LB	LB	LB	LB
Sample Type Code														
Chemical Name														
General Parameters														
Nitrate + Nitrite	--	--	< 0.020 mg/l	--	< 0.020 mg/l	--	< 0.020 mg/l	--	--	--	< 0.020 mg/l	--	--	--
Nitrocellulose	--	< 0.50 mg/l	--	--	--	--	--	< 0.50 mg/l	--	--	--	--	--	--
Nitrogen total kjeldahl	--	--	--	--	< 0.50 mg/l	--	--	--	< 0.50 mg/l	--	--	--	--	--
Perchlorate	< 4.0 ug/l	--	--	--	--	--	--	< 4.0 ug/l	--	--	--	< 4.0 ug/l	--	--
Solids, percent	--	--	--	< 0.050 %	--	< 0.050 %	--	--	--	< 0.050 %	--	--	--	< 0.050 %

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Sys Loc Code	Lab Blank 09/24/2009	Lab Blank 09/25/2009	Lab Blank 09/25/2009	Lab Blank 09/28/2009	Lab Blank 09/29/2009	Lab Blank 09/29/2009	Lab Blank 09/29/2009	Lab Blank 09/30/2009	Lab Blank 10/01/2009	Lab Blank 10/06/2009	Lab Blank 10/08/2009	Lab Blank 10/08/2009	Lab Blank 10/22/2009	
Sample Date	LB	LB												
Sample Type Code														
Chemical Name														
General Parameters														
Nitrate + Nitrite	--	--	--	--	--	--	--	--	--	< 0.020 mg/l	--	--	--	--
Nitrocellulose	< 5.0 mg/kg	--	< 0.50 mg/l	< 5.0 mg/kg	--	--	< 0.50 mg/l	--	< 5.0 mg/kg	--	--	--	--	< 0.50 mg/l
Nitrogen total kjeldahl	--	--	--	--	< 0.50 mg/l	< 0.50 mg/l	--	--	< 0.50 mg/l	--	--	--	--	--
Perchlorate	--	--	--	--	--	--	--	< 4.0 ug/l	--	--	--	< 4.0 ug/l	--	--
Solids, percent	--	< 0.050 %	--	--	--	--	--	--	--	--	--	--	--	--

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SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code	Lab Blank	Lab Blank	Field Blank	Lab Blank	Lab Blank	Lab Blank	Lab Blank	Lab Blank	Field Blank	Lab Blank	Lab Blank	Lab Blank	Field Blank
Sample Date	08/26/2009	08/31/2009	09/01/2009	09/01/2009	09/01/2009	09/02/2009	09/02/2009	09/08/2009	09/10/2009	09/14/2009	09/14/2009	09/14/2009	09/15/2009
Sample Type Code	LB	LB	FB	LB	LB	LB	LB	LB	FB	LB	LB	LB	FB
Chemical Name	Total or Dissolved												
Metals													
Antimony	Total	--	--	0.23 ug/l	< 0.046 ug/l	--	--	--	0.18 ug/l	--	--	--	< 0.046 ug/l
Antimony	NA	--	< 0.50 mg/kg < 0.50 mg/kg	--	--	< 0.50 mg/kg	--	< 0.50 mg/kg < 0.50 mg/kg	--	--	--	--	--
Antimony	Dissolved	--	--	< 0.046 ug/l	--	< 0.046 ug/l	--	< 0.046 ug/l	--	--	--	--	--
Arsenic	Total	--	--	< 10 ug/l	< 10 ug/l	--	--	--	< 10 ug/l	--	--	--	< 10 ug/l
Arsenic	NA	< 0.50 mg/kg < 0.50 mg/kg	--	--	< 0.50 mg/kg	--	< 0.50 mg/kg < 0.50 mg/kg	--	--	--	--	--	--
Arsenic	Dissolved	--	--	--	< 10 ug/l	--	< 10 ug/l	--	< 10 ug/l	--	< 10 ug/l	--	--
Beryllium	Total	--	--	< 0.027 ug/l	< 0.027 ug/l	--	--	--	< 0.027 ug/l	--	--	--	< 0.027 ug/l
Beryllium	NA	--	< 0.25 mg/kg < 0.25 mg/kg	--	--	< 0.25 mg/kg	--	< 0.25 mg/kg < 0.25 mg/kg	--	--	--	--	--
Beryllium	Dissolved	--	--	--	< 0.027 ug/l	--	< 0.027 ug/l	--	< 0.027 ug/l	--	--	--	--
Cadmium	Total	--	--	< 1.0 ug/l	< 1.0 ug/l	--	--	--	< 1.0 ug/l	--	--	--	< 1.0 ug/l
Cadmium	NA	--	< 0.25 mg/kg < 0.25 mg/kg	--	--	< 0.25 mg/kg	--	< 0.25 mg/kg < 0.25 mg/kg	--	--	--	--	--
Cadmium	Dissolved	--	--	--	< 1.0 ug/l	--	< 1.0 ug/l	--	< 1.0 ug/l	--	< 1.0 ug/l	--	--
Chromium	Total	--	--	< 10 ug/l	< 10 ug/l	--	--	--	< 10 ug/l	--	--	--	< 10 ug/l
Chromium	NA	--	< 0.50 mg/kg < 0.50 mg/kg	--	--	< 0.50 mg/kg	--	< 0.50 mg/kg < 0.50 mg/kg	--	--	--	--	--
Chromium	Dissolved	--	--	--	< 10 ug/l	--	< 10 ug/l	--	< 10 ug/l	--	< 10 ug/l	--	--
Chromium, hexavalent	NA	--	--	--	--	--	--	--	--	--	--	--	--
Copper	Total	--	--	< 20 ug/l	< 20 ug/l	--	--	--	< 20 ug/l	--	--	--	< 20 ug/l
Copper	NA	--	< 1.0 mg/kg < 1.0 mg/kg	--	--	< 1.0 mg/kg	--	< 1.0 mg/kg < 1.0 mg/kg	--	--	--	--	--
Copper	Dissolved	--	--	--	< 20 ug/l	--	< 20 ug/l	--	< 20 ug/l	--	< 20 ug/l	--	--
Lead	Total	--	--	< 3.0 ug/l	< 3.0 ug/l	--	--	--	< 3.0 ug/l	--	--	--	< 3.0 ug/l
Lead	NA	< 1.0 mg/kg < 1.0 mg/kg	--	--	< 1.0 mg/kg	--	< 1.0 mg/kg < 1.0 mg/kg	--	--	--	--	--	--
Lead	Dissolved	--	--	--	< 3.0 ug/l	--	< 3.0 ug/l	--	< 3.0 ug/l	--	< 3.0 ug/l	--	--
Mercury	Total	--	--	< 0.20 ug/l	< 0.20 ug/l	--	--	--	< 0.20 ug/l	--	--	--	< 0.20 ug/l
Mercury	NA	--	< 0.10 mg/kg < 0.10 mg/kg	--	--	< 0.10 mg/kg	--	< 0.10 mg/kg < 0.10 mg/kg	--	--	--	--	--
Mercury	Dissolved	--	--	--	< 0.20 ug/l	--	< 0.20 ug/l	--	< 0.20 ug/l	--	--	--	< 0.20 ug/l
Nickel	Total	--	--	< 5.0 ug/l	< 5.0 ug/l	--	--	--	< 5.0 ug/l	--	--	--	< 5.0 ug/l
Nickel	NA	--	< 0.50 mg/kg < 0.50 mg/kg	--	--	< 0.50 mg/kg	--	< 0.50 mg/kg < 0.50 mg/kg	--	--	--	--	--
Nickel	Dissolved	--	--	--	< 5.0 ug/l	--	< 5.0 ug/l	--	< 5.0 ug/l	--	< 5.0 ug/l	--	--
Pentachlorophenol	Total	--	--	--	< 0.50 ug/l	--	--	--	--	--	--	--	--
Selenium	Total	--	--	< 20 ug/l	< 20 ug/l	--	--	--	< 20 ug/l	--	--	--	< 20 ug/l
Selenium	NA	--	< 1.0 mg/kg < 1.0 mg/kg	--	--	< 1.0 mg/kg	--	< 1.0 mg/kg < 1.0 mg/kg	--	--	--	--	--
Selenium	Dissolved	--	--	--	< 20 ug/l	--	< 20 ug/l	--	< 20 ug/l	--	< 20 ug/l	--	--
Silver	Total	--	--	< 5.0 ug/l	< 5.0 ug/l	--	--	--	< 5.0 ug/l	--	--	--	< 5.0 ug/l

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Sys Loc Code	Lab Blank	Lab Blank	Field Blank	Lab Blank	Lab Blank	Lab Blank	Lab Blank	Lab Blank	Field Blank	Lab Blank	Lab Blank	Lab Blank	Field Blank
Sample Date	08/26/2009	08/31/2009	09/01/2009	09/01/2009	09/01/2009	09/02/2009	09/02/2009	09/08/2009	09/10/2009	09/14/2009	09/14/2009	09/15/2009	FB
Sample Type Code	LB	LB	FB	LB	LB	LB	LB	LB	FB	LB	LB	LB	FB
Chemical Name	Total or Dissolved												
Silver	NA	--	< 0.25 mg/kg < 0.25 mg/kg	--	--	< 0.25 mg/kg	--	< 0.25 mg/kg < 0.25 mg/kg	--	--	--	--	--
Silver	Dissolved	--	--	--	< 5.0 ug/l	--	< 5.0 ug/l	--	< 5.0 ug/l	--	< 5.0 ug/l	--	--
Thallium	Total	--	--	< 0.0081 ug/l	< 0.0081 ug/l	--	--	--	< 0.0081 ug/l	--	--	--	0.14 j ug/l
Thallium	NA	--	< 2.0 mg/kg < 2.0 mg/kg	--	--	< 2.0 mg/kg	--	< 2.0 mg/kg < 2.0 mg/kg	--	--	--	--	--
Thallium	Dissolved	--	--	--	< 0.0081 ug/l	--	< 0.0081 ug/l	--	< 0.0081 ug/l	--	--	--	--
Zinc	Total	--	--	< 20 ug/l	< 20 ug/l	--	--	--	< 20 ug/l	--	--	--	< 20 ug/l
Zinc	NA	--	< 1.0 mg/kg < 1.0 mg/kg	--	--	< 1.0 mg/kg	--	< 1.0 mg/kg < 1.0 mg/kg	--	--	--	--	--
Zinc	Dissolved	--	--	--	< 20 ug/l	--	< 20 ug/l	--	< 20 ug/l	--	< 20 ug/l	--	--

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Dakota County, Minnesota

Sys Loc Code	Lab Blank	Lab Blank	Lab Blank	Lab Blank	Lab Blank	Lab Blank	Lab Blank	Lab Blank	Lab Blank	Lab Blank	Lab Blank	Lab Blank	Lab Blank
Sample Date	09/17/2009	09/17/2009	09/18/2009	09/20/2009	09/20/2009	09/20/2009	09/20/2009	09/21/2009	09/21/2009	09/21/2009	09/21/2009	09/21/2009	09/27/2009
Sample Type Code	Total or Dissolved	LB	LB	LB	LB	LB	LB	LB	LB	LB	LB	LB	LB
Chemical Name													
Metals													
Antimony	Total	--	--	--	< 0.50 mg/kg	< 0.50 mg/kg	< 0.046 ug/l	--	--	--	< 0.50 mg/kg	--	--
Antimony	NA	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	Dissolved	--	--	--	--	--	< 0.046 ug/l	--	--	--	--	--	--
Arsenic	Total	--	--	--	< 0.50 mg/kg	< 0.50 mg/kg	--	< 10 ug/l	--	--	< 0.50 mg/kg	--	--
Arsenic	NA	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	Dissolved	--	--	--	--	--	--	< 10 ug/l	--	--	--	--	--
Beryllium	Total	--	--	--	< 0.25 mg/kg	< 0.25 mg/kg	< 0.027 ug/l	--	--	--	< 0.25 mg/kg	--	--
Beryllium	NA	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	Dissolved	--	--	--	--	--	< 0.027 ug/l	--	--	--	--	--	--
Cadmium	Total	--	--	--	< 0.25 mg/kg	< 0.25 mg/kg	--	< 1.0 ug/l	--	--	< 0.25 mg/kg	--	--
Cadmium	NA	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	Dissolved	--	--	--	--	--	--	< 1.0 ug/l	--	--	--	--	--
Chromium	Total	--	--	--	< 0.50 mg/kg	< 0.50 mg/kg	--	< 10 ug/l	--	--	< 0.50 mg/kg	--	--
Chromium	NA	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	Dissolved	--	--	--	--	--	--	< 10 ug/l	--	--	--	--	--
Chromium, hexavalent	NA	--	--	< 2.0 mg/kg	--	--	--	--	--	--	--	--	--
Copper	Total	--	--	--	< 1.0 mg/kg	< 1.0 mg/kg	--	< 20 ug/l	--	--	< 1.0 mg/kg	--	--
Copper	NA	--	--	--	--	--	--	--	--	--	--	--	--
Copper	Dissolved	--	--	--	--	--	--	< 20 ug/l	--	--	--	--	--
Lead	Total	--	--	--	< 1.0 mg/kg	< 1.0 mg/kg	--	< 3.0 ug/l	--	--	< 1.0 mg/kg	--	--
Lead	NA	--	--	--	--	--	--	--	--	--	--	--	--
Lead	Dissolved	--	--	--	--	--	--	< 3.0 ug/l	--	--	--	--	--
Mercury	Total	--	< 0.10 mg/kg	--	--	--	--	--	--	< 0.20 ug/l	--	--	< 0.10 mg/kg
Mercury	NA	--	--	--	--	--	--	--	< 0.10 mg/kg	--	--	< 0.10 mg/kg	--
Mercury	Dissolved	< 0.20 ug/l	--	--	--	--	--	--	--	< 0.20 ug/l	--	--	--
Nickel	Total	--	--	--	< 0.50 mg/kg	< 0.50 mg/kg	--	< 5.0 ug/l	--	--	< 0.50 mg/kg	--	--
Nickel	NA	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	Dissolved	--	--	--	--	--	--	< 5.0 ug/l	--	--	--	--	--
Pentachlorophenol	Total	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	Total	--	--	--	< 1.0 mg/kg	< 1.0 mg/kg	--	< 20 ug/l	--	--	< 1.0 mg/kg	--	--
Selenium	NA	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	Dissolved	--	--	--	--	--	--	< 20 ug/l	--	--	--	--	--
Silver	Total	--	--	--	< 0.25 mg/kg	< 0.25 mg/kg	--	< 5.0 ug/l	--	--	< 0.25 mg/kg	--	--

Table H-1
Soil/Groundwater Sampling Results - QC Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code	Lab Blank 09/17/2009	Lab Blank 09/17/2009	Lab Blank 09/18/2009	Lab Blank 09/20/2009	Lab Blank 09/20/2009	Lab Blank 09/20/2009	Lab Blank 09/20/2009	Lab Blank 09/21/2009	Lab Blank 09/27/2009				
Sample Date	LB												
Sample Type Code													
Chemical Name	Total or Dissolved												
Silver	NA	--	--	--	--	--	--	--	--	--	--	--	--
Silver	Dissolved	--	--	--	--	--	--	< 5.0 ug/l	--	--	--	--	--
Thallium	Total	--	--	--	< 2.0 mg/kg	< 2.0 mg/kg	< 0.0081 ug/l	--	--	--	< 2.0 mg/kg	--	--
Thallium	NA	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	Dissolved	--	--	--	--	--	< 0.0081 ug/l	--	--	--	--	--	--
Zinc	Total	--	--	--	< 1.0 mg/kg	< 1.0 mg/kg	--	< 20 ug/l	--	--	< 1.0 mg/kg	--	--
Zinc	NA	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	Dissolved	--	--	--	--	--	--	< 20 ug/l	--	--	--	--	--

Table H-1
Soil/Groundwater Sampling Results - QC Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code		Lab Blank 09/27/2009 LB	Lab Blank 09/28/2009 LB	Field Blank 09/29/2009 FB	Lab Blank 10/01/2009 LB	Lab Blank 10/05/2009 LB	Lab Blank 10/13/2009 LB	Lab Blank 10/14/2009 LB	Lab Blank 10/14/2009 LB	Lab Blank 11/11/2009 LB
Chemical Name	Sample Type Code	Total or Dissolved								
Metals										
Antimony	Total	< 0.50 mg/kg	--	--	< 0.50 mg/kg	--	--	< 0.046 ug/l	--	--
Antimony	NA	--	--	--	--	--	--	--	--	--
Antimony	Dissolved	--	--	0.89 ug/l	--	--	--	< 0.046 ug/l	--	--
Arsenic	Total	< 0.50 mg/kg	--	--	< 0.50 mg/kg	--	--	--	< 10 ug/l	--
Arsenic	NA	--	--	--	--	--	--	--	--	--
Arsenic	Dissolved	--	--	< 10 ug/l	--	--	--	--	< 10 ug/l	--
Beryllium	Total	< 0.25 mg/kg	--	--	< 0.25 mg/kg	--	--	< 0.027 ug/l	--	--
Beryllium	NA	--	--	--	--	--	--	--	--	--
Beryllium	Dissolved	--	--	1.1 ug/l	--	--	--	< 0.027 ug/l	--	--
Cadmium	Total	< 0.25 mg/kg	--	--	< 0.25 mg/kg	--	--	--	< 1.0 ug/l	--
Cadmium	NA	--	--	--	--	--	--	--	--	--
Cadmium	Dissolved	--	--	< 1.0 ug/l	--	--	--	--	< 1.0 ug/l	--
Chromium	Total	< 0.50 mg/kg	--	--	< 0.50 mg/kg	--	--	--	< 10 ug/l	--
Chromium	NA	--	--	--	--	--	--	--	--	--
Chromium	Dissolved	--	--	< 10 ug/l	--	--	--	--	< 10 ug/l	--
Chromium, hexavalent	NA	--	--	--	--	--	--	--	--	--
Copper	Total	< 1.0 mg/kg	--	--	< 1.0 mg/kg	--	--	--	< 20 ug/l	--
Copper	NA	--	--	--	--	--	--	--	--	--
Copper	Dissolved	--	--	< 20 ug/l	--	--	--	--	< 20 ug/l	--
Lead	Total	< 1.0 mg/kg	--	--	< 1.0 mg/kg	--	--	--	< 3.0 ug/l	--
Lead	NA	--	--	--	--	--	--	--	--	--
Lead	Dissolved	--	--	< 3.0 ug/l	--	--	--	--	< 3.0 ug/l	--
Mercury	Total	--	--	--	< 0.10 mg/kg	< 0.20 ug/l	--	--	--	--
Mercury	NA	--	< 0.10 mg/kg	--	--	--	--	--	< 0.10 mg/kg	--
Mercury	Dissolved	--	--	< 0.20 ug/l	--	--	--	--	--	--
Nickel	Total	< 0.50 mg/kg	--	--	< 0.50 mg/kg	--	--	--	< 5.0 ug/l	--
Nickel	NA	--	--	--	--	--	--	--	--	--
Nickel	Dissolved	--	--	< 5.0 ug/l	--	--	--	--	< 5.0 ug/l	--
Pentachlorophenol	Total	--	--	--	--	--	--	--	--	--
Selenium	Total	< 1.0 mg/kg	--	--	< 1.0 mg/kg	--	--	--	< 20 ug/l	--
Selenium	NA	--	--	--	--	--	--	--	--	--
Selenium	Dissolved	--	--	< 20 ug/l	--	--	--	--	< 20 ug/l	--
Silver	Total	< 0.25 mg/kg	--	--	< 0.25 mg/kg	--	--	--	< 5.0 ug/l	--

Table H-1
Soil/Groundwater Sampling Results - QC Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code	Lab Blank 09/27/2009	Lab Blank 09/28/2009	Field Blank FB	Lab Blank 10/01/2009	Lab Blank 10/05/2009	Lab Blank 10/13/2009	Lab Blank 10/14/2009	Lab Blank 10/14/2009	Lab Blank 11/11/2009
Sample Type Code	LB	LB	FB	LB	LB	LB	LB	LB	LB
Chemical Name	Total or Dissolved								
Silver	NA	--	--	--	--	--	--	--	--
Silver	Dissolved	--	--	< 5.0 ug/l	--	--	--	< 5.0 ug/l	--
Thallium	Total	< 2.0 mg/kg	--	--	< 2.0 mg/kg	--	--	< 0.0081 ug/l	--
Thallium	NA	--	--	--	--	--	--	--	--
Thallium	Dissolved	--	--	1.1 ug/l	--	--	< 0.0081 ug/l	--	--
Zinc	Total	< 1.0 mg/kg	--	--	< 1.0 mg/kg	--	--	< 20 ug/l	--
Zinc	NA	--	--	--	--	--	--	--	--
Zinc	Dissolved	--	--	< 20 ug/l	--	--	--	< 20 ug/l	--

Table H-1
Soil/Groundwater Sampling Results - QC Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code Sample Date	Lab Blank 08/26/2009 Sample Type Code	Lab Blank 08/31/2009 LB	Field Blank 09/01/2009 FB	Lab Blank 09/01/2009 LB	Lab Blank 09/01/2009 LB	Lab Blank 09/02/2009 LB	Lab Blank 09/02/2009 LB	Lab Blank 09/03/2009 LB	Lab Blank 09/08/2009 LB	Field Blank 09/10/2009 FB	Field Blank 09/10/2009 FB	Lab Blank 09/15/2009 LB	Lab Blank 09/15/2009 FB	
Chemical Name														
SVOCs														
1,2,4-Trichlorobenzene	< 0.027 mg/kg	< 0.027 mg/kg < 0.027 mg/kg < 0.027 mg/kg < 0.027 mg/kg	< 0.18 ug/l < 0.19 ug/l	< 0.19 ug/l < 0.19 ug/l	< 0.027 mg/kg	< 0.19 ug/l < 0.027 mg/kg < 0.027 mg/kg	< 0.027 mg/kg	< 0.19 ug/l	< 0.18 ug/l < 0.18 ug/l	< 0.18 ug/l < 0.19 ug/l	< 0.18 ug/l < 0.18 ug/l	< 0.19 ug/l < 0.19 ug/l	< 0.18 ug/l < 0.18 ug/l	
1,2-Dichlorobenzene	< 0.025 mg/kg	< 0.025 mg/kg < 0.025 mg/kg < 0.025 mg/kg < 0.025 mg/kg	< 0.21 ug/l < 0.23 ug/l < 0.23 ug/l	< 0.23 ug/l < 0.23 ug/l	< 0.025 mg/kg	< 0.23 ug/l < 0.025 mg/kg < 0.025 mg/kg	< 0.025 mg/kg	< 0.23 ug/l	< 0.21 ug/l < 0.21 ug/l	< 0.21 ug/l < 0.23 ug/l	< 0.21 ug/l < 0.21 ug/l	< 0.23 ug/l < 0.21 ug/l	< 0.21 ug/l < 0.19 ug/l	
1,3-Dichlorobenzene	< 0.023 mg/kg	< 0.023 mg/kg < 0.023 mg/kg < 0.023 mg/kg < 0.023 mg/kg	< 0.19 ug/l < 0.21 ug/l	< 0.21 ug/l < 0.21 ug/l	< 0.023 mg/kg	< 0.21 ug/l < 0.023 mg/kg < 0.023 mg/kg	< 0.023 mg/kg	< 0.21 ug/l	< 0.19 ug/l < 0.19 ug/l	< 0.19 ug/l < 0.21 ug/l	< 0.19 ug/l < 0.21 ug/l	< 0.21 ug/l < 0.19 ug/l	< 0.21 ug/l < 0.19 ug/l	
1,4-Dichlorobenzene	< 0.024 mg/kg	< 0.024 mg/kg < 0.024 mg/kg < 0.024 mg/kg < 0.024 mg/kg	< 0.20 ug/l < 0.22 ug/l	< 0.22 ug/l < 0.22 ug/l	< 0.024 mg/kg	< 0.22 ug/l < 0.024 mg/kg < 0.024 mg/kg	< 0.024 mg/kg	< 0.22 ug/l	< 0.20 ug/l < 0.20 ug/l	< 0.20 ug/l < 0.22 ug/l	< 0.20 ug/l < 0.22 ug/l	< 0.22 ug/l < 0.20 ug/l	< 0.20 ug/l < 0.20 ug/l	
2,3,4,6-Tetrachlorophenol	< 0.038 mg/kg	< 0.038 mg/kg < 0.038 mg/kg < 0.038 mg/kg < 0.038 mg/kg	< 0.56 ug/l < 0.61 ug/l	< 0.61 ug/l < 0.61 ug/l	< 0.038 mg/kg	< 0.61 ug/l < 0.038 mg/kg < 0.038 mg/kg	< 0.038 mg/kg	< 0.61 ug/l	< 0.56 ug/l < 0.56 ug/l	< 0.56 ug/l < 0.61 ug/l	< 0.56 ug/l < 0.56 ug/l	< 0.61 ug/l < 0.56 ug/l	< 0.56 ug/l < 0.56 ug/l	
2,4,5-Trichlorophenol	< 0.024 mg/kg	< 0.024 mg/kg < 0.024 mg/kg < 0.024 mg/kg < 0.024 mg/kg	< 0.74 ug/l < 0.80 ug/l	< 0.80 ug/l < 0.80 ug/l	< 0.024 mg/kg	< 0.80 ug/l < 0.024 mg/kg < 0.024 mg/kg	< 0.024 mg/kg	< 0.80 ug/l	< 0.74 ug/l < 0.74 ug/l	< 0.74 ug/l < 0.80 ug/l	< 0.74 ug/l < 0.74 ug/l	< 0.80 ug/l < 0.74 ug/l	< 0.74 ug/l < 0.74 ug/l	
2,4,6-Trichlorophenol	< 0.035 mg/kg	< 0.035 mg/kg < 0.035 mg/kg < 0.035 mg/kg < 0.035 mg/kg	< 0.44 ug/l < 0.48 ug/l	< 0.48 ug/l < 0.48 ug/l	< 0.035 mg/kg	< 0.48 ug/l < 0.035 mg/kg < 0.035 mg/kg	< 0.035 mg/kg	< 0.48 ug/l	< 0.44 ug/l < 0.44 ug/l	< 0.44 ug/l < 0.48 ug/l	< 0.44 ug/l < 0.48 ug/l	< 0.48 ug/l < 0.44 ug/l	< 0.44 ug/l < 0.44 ug/l	
2,4-Dichlorophenol	< 0.035 mg/kg	< 0.035 mg/kg < 0.035 mg/kg < 0.035 mg/kg < 0.035 mg/kg	< 0.44 ug/l < 0.47 ug/l	< 0.47 ug/l < 0.47 ug/l	< 0.035 mg/kg	< 0.47 ug/l < 0.035 mg/kg < 0.035 mg/kg	< 0.035 mg/kg	< 0.47 ug/l	< 0.44 ug/l < 0.44 ug/l	< 0.44 ug/l < 0.47 ug/l	< 0.44 ug/l < 0.44 ug/l	< 0.47 ug/l < 0.44 ug/l	< 0.44 ug/l < 0.44 ug/l	
2,4-Dimethylphenol	< 0.090 mg/kg	< 0.090 mg/kg < 0.090 mg/kg < 0.090 mg/kg < 0.090 mg/kg	< 1.5 ug/l < 1.6 ug/l	< 1.6 ug/l < 1.6 ug/l	< 0.090 mg/kg	< 1.6 ug/l < 0.090 mg/kg < 0.090 mg/kg	< 0.090 mg/kg	< 1.6 ug/l	< 1.5 ug/l < 1.5 ug/l	< 1.5 ug/l < 1.6 ug/l	< 1.5 ug/l < 1.6 ug/l	< 1.6 ug/l < 1.5 ug/l	< 1.5 ug/l < 1.5 ug/l	
2,4-Dinitrophenol	< 0.058 mg/kg	< 0.058 mg/kg < 0.058 mg/kg < 0.058 mg/kg < 0.058 mg/kg	< 0.93 ug/l < 1.0 ug/l	< 1.0 ug/l < 1.0 ug/l	< 0.058 mg/kg	< 1.0 ug/l < 0.058 mg/kg < 0.058 mg/kg	< 0.058 mg/kg	< 1.0 ug/l	< 0.93 ug/l < 0.93 ug/l	< 0.93 ug/l < 1.0 ug/l	< 0.93 ug/l < 1.0 ug/l	< 1.0 ug/l < 0.93 ug/l	< 0.93 ug/l < 0.93 ug/l	

Table H-1
Soil/Groundwater Sampling Results - QC Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code Sample Date	Lab Blank 08/26/2009 Sample Type Code	Lab Blank 08/31/2009 LB	Field Blank 09/01/2009 FB	Lab Blank 09/01/2009 LB	Lab Blank 09/01/2009 LB	Lab Blank 09/02/2009 LB	Lab Blank 09/02/2009 LB	Lab Blank 09/03/2009 LB	Lab Blank 09/08/2009 LB	Field Blank 09/10/2009 FB	Field Blank 09/10/2009 FB	Lab Blank 09/15/2009 LB	Lab Blank 09/15/2009 FB	
Chemical Name														
2,4-Dinitrotoluene	< 0.021 mg/kg	< 0.021 mg/kg < 0.021 mg/kg < 0.021 mg/kg < 0.021 mg/kg	< 0.31 ug/l	< 0.33 ug/l < 0.33 ug/l	< 0.021 mg/kg	< 0.33 ug/l	< 0.021 mg/kg < 0.021 mg/kg < 0.021 mg/kg	< 0.021 mg/kg	< 0.33 ug/l	< 0.31 ug/l	< 0.31 ug/l	< 0.33 ug/l	< 0.31 ug/l	
2,6-Dichlorophenol	< 0.043 mg/kg	< 0.043 mg/kg < 0.043 mg/kg < 0.043 mg/kg < 0.043 mg/kg	< 0.44 ug/l	< 0.48 ug/l < 0.48 ug/l	< 0.043 mg/kg	< 0.48 ug/l	< 0.043 mg/kg < 0.043 mg/kg < 0.043 mg/kg	< 0.043 mg/kg	< 0.48 ug/l	< 0.44 ug/l	< 0.44 ug/l	< 0.48 ug/l	< 0.44 ug/l	
2,6-Dinitrotoluene	< 0.019 mg/kg	< 0.019 mg/kg < 0.019 mg/kg < 0.019 mg/kg < 0.019 mg/kg	< 0.33 ug/l	< 0.36 ug/l < 0.36 ug/l	< 0.019 mg/kg	< 0.36 ug/l	< 0.019 mg/kg < 0.019 mg/kg < 0.019 mg/kg	< 0.019 mg/kg	< 0.36 ug/l	< 0.33 ug/l	< 0.33 ug/l	< 0.36 ug/l	< 0.33 ug/l	
2-Chloronaphthalene	< 0.019 mg/kg	< 0.019 mg/kg < 0.019 mg/kg < 0.019 mg/kg < 0.019 mg/kg	< 0.26 ug/l	< 0.28 ug/l < 0.28 ug/l	< 0.019 mg/kg	< 0.28 ug/l	< 0.019 mg/kg < 0.019 mg/kg < 0.019 mg/kg	< 0.019 mg/kg	< 0.28 ug/l	< 0.26 ug/l	< 0.26 ug/l	< 0.28 ug/l	< 0.26 ug/l	
2-Chlorophenol	< 0.038 mg/kg	< 0.038 mg/kg < 0.038 mg/kg < 0.038 mg/kg < 0.038 mg/kg	< 0.42 ug/l	< 0.45 ug/l < 0.45 ug/l	< 0.038 mg/kg	< 0.45 ug/l	< 0.038 mg/kg < 0.038 mg/kg < 0.038 mg/kg	< 0.038 mg/kg	< 0.45 ug/l	< 0.42 ug/l	< 0.42 ug/l	< 0.45 ug/l	< 0.42 ug/l	
2-Methyl-4,6-dinitrophenol	< 0.074 mg/kg	< 0.074 mg/kg < 0.074 mg/kg < 0.074 mg/kg < 0.074 mg/kg	< 0.60 ug/l	< 0.65 ug/l < 0.65 ug/l	< 0.074 mg/kg	< 0.65 ug/l	< 0.074 mg/kg < 0.074 mg/kg < 0.074 mg/kg	< 0.074 mg/kg	< 0.65 ug/l	< 0.60 ug/l	< 0.60 ug/l	< 0.65 ug/l	< 0.60 ug/l	
2-Methylnaphthalene	< 0.028 mg/kg	< 0.028 mg/kg < 0.028 mg/kg < 0.028 mg/kg < 0.028 mg/kg	< 0.61 ug/l	< 0.66 ug/l < 0.66 ug/l	< 0.028 mg/kg	< 0.66 ug/l	< 0.028 mg/kg < 0.028 mg/kg < 0.028 mg/kg	< 0.028 mg/kg	< 0.66 ug/l	< 0.61 ug/l	< 0.61 ug/l	< 0.66 ug/l	< 0.61 ug/l	
2-Nitroaniline	< 0.020 mg/kg	< 0.020 mg/kg < 0.020 mg/kg < 0.020 mg/kg < 0.020 mg/kg	< 0.67 ug/l	< 0.72 ug/l < 0.72 ug/l	< 0.020 mg/kg	< 0.72 ug/l	< 0.020 mg/kg < 0.020 mg/kg < 0.020 mg/kg	< 0.020 mg/kg	< 0.72 ug/l	< 0.67 ug/l	< 0.67 ug/l	< 0.72 ug/l	< 0.67 ug/l	
2-Nitrophenol	< 0.036 mg/kg	< 0.036 mg/kg < 0.036 mg/kg < 0.036 mg/kg < 0.036 mg/kg	< 0.83 ug/l	< 0.90 ug/l < 0.90 ug/l	< 0.036 mg/kg	< 0.90 ug/l	< 0.036 mg/kg < 0.036 mg/kg < 0.036 mg/kg	< 0.036 mg/kg	< 0.90 ug/l	< 0.83 ug/l	< 0.83 ug/l	< 0.90 ug/l	< 0.83 ug/l	
3,3'-Dichlorobenzidine	< 0.39 mg/kg	< 0.39 mg/kg < 0.39 mg/kg < 0.39 mg/kg < 0.39 mg/kg	< 6.8 ug/l	< 7.3 ug/l < 7.3 ug/l	< 0.39 mg/kg	< 7.3 ug/l	< 0.39 mg/kg < 0.39 mg/kg < 0.39 mg/kg	< 0.39 mg/kg	< 7.3 ug/l	< 6.8 ug/l	< 6.8 ug/l	< 7.3 ug/l	< 6.8 ug/l	
3-Nitroaniline	< 0.033 mg/kg	< 0.033 mg/kg < 0.033 mg/kg < 0.033 mg/kg < 0.033 mg/kg	< 1.1 ug/l	< 1.2 ug/l < 1.2 ug/l	< 0.033 mg/kg	< 1.2 ug/l	< 0.033 mg/kg < 0.033 mg/kg < 0.033 mg/kg	< 0.033 mg/kg	< 1.2 ug/l	< 1.1 ug/l	< 1.1 ug/l	< 1.2 ug/l	< 1.1 ug/l	

Table H-1
Soil/Groundwater Sampling Results - QC Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code Sample Date Sample Type Code	Lab Blank 08/26/2009 LB	Lab Blank 08/31/2009 LB	Field Blank 09/01/2009 FB	Lab Blank 09/01/2009 LB	Lab Blank 09/01/2009 LB	Lab Blank 09/02/2009 LB	Lab Blank 09/02/2009 LB	Lab Blank 09/03/2009 LB	Lab Blank 09/08/2009 LB	Field Blank 09/10/2009 FB	Field Blank 09/10/2009 FB	Lab Blank 09/15/2009 LB	Field Blank 09/15/2009 FB	
Chemical Name														
4-Bromophenyl phenyl ether	< 0.017 mg/kg	< 0.017 mg/kg < 0.017 mg/kg < 0.017 mg/kg < 0.017 mg/kg	< 0.16 ug/l	< 0.17 ug/l < 0.17 ug/l	< 0.017 mg/kg	< 0.17 ug/l	< 0.017 mg/kg < 0.017 mg/kg < 0.017 mg/kg	< 0.017 mg/kg	< 0.17 ug/l	< 0.16 ug/l	< 0.16 ug/l	< 0.17 ug/l	< 0.16 ug/l	
4-Chloro-3-methylphenol	< 0.040 mg/kg	< 0.040 mg/kg < 0.040 mg/kg < 0.040 mg/kg < 0.040 mg/kg	< 0.51 ug/l	< 0.55 ug/l < 0.55 ug/l	< 0.040 mg/kg	< 0.55 ug/l	< 0.040 mg/kg < 0.040 mg/kg < 0.040 mg/kg	< 0.040 mg/kg	< 0.55 ug/l	< 0.51 ug/l	< 0.51 ug/l	< 0.55 ug/l	< 0.51 ug/l	
4-Chloroaniline	< 0.11 mg/kg	< 0.11 mg/kg < 0.11 mg/kg < 0.11 mg/kg < 0.11 mg/kg	< 2.1 ug/l	< 2.3 ug/l < 2.3 ug/l	< 0.11 mg/kg	< 2.3 ug/l	< 0.11 mg/kg < 0.11 mg/kg < 0.11 mg/kg	< 0.11 mg/kg	< 2.3 ug/l	< 2.1 ug/l	< 2.1 ug/l	< 2.3 ug/l	< 2.1 ug/l	
4-Chlorophenyl phenyl ether	< 0.023 mg/kg	< 0.023 mg/kg < 0.023 mg/kg < 0.023 mg/kg < 0.023 mg/kg	< 0.23 ug/l	< 0.25 ug/l < 0.25 ug/l	< 0.023 mg/kg	< 0.25 ug/l	< 0.023 mg/kg < 0.023 mg/kg < 0.023 mg/kg	< 0.023 mg/kg	< 0.25 ug/l	< 0.23 ug/l	< 0.23 ug/l	< 0.25 ug/l	< 0.23 ug/l	
4-Nitroaniline	< 0.023 mg/kg	< 0.023 mg/kg < 0.023 mg/kg < 0.023 mg/kg < 0.023 mg/kg	< 0.55 ug/l	< 0.59 ug/l < 0.59 ug/l	< 0.023 mg/kg	< 0.59 ug/l	< 0.023 mg/kg < 0.023 mg/kg < 0.023 mg/kg	< 0.023 mg/kg	< 0.59 ug/l	< 0.55 ug/l	< 0.55 ug/l	< 0.59 ug/l	< 0.55 ug/l	
4-Nitrophenol	< 0.099 mg/kg	< 0.099 mg/kg < 0.099 mg/kg < 0.099 mg/kg < 0.099 mg/kg	< 1.1 ug/l	< 1.2 ug/l < 1.2 ug/l	< 0.099 mg/kg	< 1.2 ug/l	< 0.099 mg/kg < 0.099 mg/kg < 0.099 mg/kg	< 0.099 mg/kg	< 1.2 ug/l	< 1.1 ug/l	< 1.1 ug/l	< 1.2 ug/l	< 1.1 ug/l	
Acenaphthene	< 0.028 mg/kg	< 0.028 mg/kg < 0.028 mg/kg < 0.028 mg/kg < 0.028 mg/kg	< 0.33 ug/l	< 0.36 ug/l < 0.36 ug/l	< 0.028 mg/kg	< 0.36 ug/l	< 0.028 mg/kg < 0.028 mg/kg < 0.028 mg/kg	< 0.028 mg/kg	< 0.36 ug/l	< 0.33 ug/l	< 0.33 ug/l	< 0.36 ug/l	< 0.33 ug/l	
Acenaphthylene	< 0.023 mg/kg	< 0.023 mg/kg < 0.023 mg/kg < 0.023 mg/kg < 0.023 mg/kg	< 0.23 ug/l	< 0.25 ug/l < 0.25 ug/l	< 0.023 mg/kg	< 0.25 ug/l	< 0.023 mg/kg < 0.023 mg/kg < 0.023 mg/kg	< 0.023 mg/kg	< 0.25 ug/l	< 0.23 ug/l	< 0.23 ug/l	< 0.25 ug/l	< 0.23 ug/l	
Aniline	< 0.090 mg/kg	< 0.090 mg/kg < 0.090 mg/kg < 0.090 mg/kg < 0.090 mg/kg	< 2.0 ug/l	< 2.2 ug/l < 2.2 ug/l	< 0.090 mg/kg	< 2.2 ug/l	< 0.090 mg/kg < 0.090 mg/kg < 0.090 mg/kg	< 0.090 mg/kg	< 2.2 ug/l	< 2.0 ug/l	< 2.0 ug/l	< 2.2 ug/l	< 2.0 ug/l	
Anthracene	< 0.025 mg/kg	< 0.025 mg/kg < 0.025 mg/kg < 0.025 mg/kg < 0.025 mg/kg	< 0.34 ug/l	< 0.37 ug/l < 0.37 ug/l	< 0.025 mg/kg	< 0.37 ug/l	< 0.025 mg/kg < 0.025 mg/kg < 0.025 mg/kg	< 0.025 mg/kg	< 0.37 ug/l	< 0.34 ug/l	< 0.34 ug/l	< 0.37 ug/l	< 0.34 ug/l	
Azobenzene	< 0.020 mg/kg	< 0.020 mg/kg < 0.020 mg/kg < 0.020 mg/kg < 0.020 mg/kg	< 0.22 ug/l	< 0.24 ug/l < 0.24 ug/l	< 0.020 mg/kg	< 0.24 ug/l	< 0.020 mg/kg < 0.020 mg/kg < 0.020 mg/kg	< 0.020 mg/kg	< 0.24 ug/l	< 0.22 ug/l	< 0.22 ug/l	< 0.24 ug/l	< 0.22 ug/l	

Table H-1
Soil/Groundwater Sampling Results - QC Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code Sample Date	Lab Blank 08/26/2009 Sample Type Code	Lab Blank 08/31/2009 LB	Field Blank 09/01/2009 FB	Lab Blank 09/01/2009 LB	Lab Blank 09/01/2009 LB	Lab Blank 09/02/2009 LB	Lab Blank 09/02/2009 LB	Lab Blank 09/03/2009 LB	Lab Blank 09/08/2009 LB	Field Blank 09/10/2009 FB	Field Blank 09/10/2009 FB	Lab Blank 09/15/2009 LB	Field Blank 09/15/2009 FB	
Chemical Name														
Benzidine	< 0.72 mg/kg	< 0.72 mg/kg < 0.72 mg/kg < 0.72 mg/kg < 0.72 mg/kg	< 17 ug/l < 18 ug/l	< 18 ug/l < 18 ug/l	< 0.72 mg/kg	< 18 ug/l	< 0.72 mg/kg < 0.72 mg/kg < 0.72 mg/kg	< 0.72 mg/kg	< 18 ug/l	< 17 ug/l < 17 ug/l	< 17 ug/l < 18 ug/l	< 17 ug/l < 17 ug/l		
Benzo(a)anthracene	< 0.027 mg/kg	< 0.027 mg/kg < 0.027 mg/kg < 0.027 mg/kg < 0.027 mg/kg	< 0.34 ug/l	< 0.37 ug/l < 0.37 ug/l	< 0.027 mg/kg	< 0.37 ug/l	< 0.027 mg/kg < 0.027 mg/kg < 0.027 mg/kg	< 0.027 mg/kg	< 0.37 ug/l	< 0.34 ug/l < 0.34 ug/l	< 0.34 ug/l < 0.37 ug/l	< 0.34 ug/l < 0.34 ug/l		
Benzo(a)pyrene	< 0.027 mg/kg	< 0.027 mg/kg < 0.027 mg/kg < 0.027 mg/kg < 0.027 mg/kg	< 0.27 ug/l	< 0.29 ug/l < 0.29 ug/l	< 0.027 mg/kg	< 0.29 ug/l	< 0.027 mg/kg < 0.027 mg/kg < 0.027 mg/kg	< 0.027 mg/kg	< 0.29 ug/l	< 0.27 ug/l < 0.27 ug/l	< 0.27 ug/l < 0.29 ug/l	< 0.27 ug/l < 0.27 ug/l		
Benzo(b)fluoranthene	< 0.034 mg/kg	< 0.034 mg/kg < 0.034 mg/kg < 0.034 mg/kg < 0.034 mg/kg	< 0.20 ug/l	< 0.22 ug/l < 0.22 ug/l	< 0.034 mg/kg	< 0.22 ug/l	< 0.034 mg/kg < 0.034 mg/kg < 0.034 mg/kg	< 0.034 mg/kg	< 0.22 ug/l	< 0.20 ug/l < 0.20 ug/l	< 0.20 ug/l < 0.22 ug/l	< 0.20 ug/l < 0.20 ug/l		
Benzo(g,h,i)perylene	< 0.030 mg/kg	< 0.030 mg/kg < 0.030 mg/kg < 0.030 mg/kg < 0.030 mg/kg	< 0.24 ug/l	< 0.26 ug/l < 0.26 ug/l	< 0.030 mg/kg	< 0.26 ug/l	< 0.030 mg/kg < 0.030 mg/kg < 0.030 mg/kg	< 0.030 mg/kg	< 0.26 ug/l	< 0.24 ug/l < 0.24 ug/l	< 0.24 ug/l < 0.26 ug/l	< 0.24 ug/l < 0.24 ug/l		
Benzo(k)fluoranthene	< 0.031 mg/kg	< 0.031 mg/kg < 0.031 mg/kg < 0.031 mg/kg < 0.031 mg/kg	< 0.29 ug/l	< 0.31 ug/l < 0.31 ug/l	< 0.031 mg/kg	< 0.31 ug/l	< 0.031 mg/kg < 0.031 mg/kg < 0.031 mg/kg	< 0.031 mg/kg	< 0.31 ug/l	< 0.29 ug/l < 0.29 ug/l	< 0.29 ug/l < 0.31 ug/l	< 0.29 ug/l < 0.29 ug/l		
Benzoic Acid	< 0.058 mg/kg	< 0.058 mg/kg < 0.058 mg/kg < 0.058 mg/kg < 0.058 mg/kg	< 1.1 ug/l	< 1.2 ug/l < 1.2 ug/l	< 0.058 mg/kg	< 1.2 ug/l	< 0.058 mg/kg < 0.058 mg/kg < 0.058 mg/kg	< 0.058 mg/kg	< 1.2 ug/l	7.6 j ug/l 7.6 j ug/l	7.6 j ug/l < 1.2 ug/l	< 1.2 ug/l < 1.1 ug/l		
Benzyl alcohol	< 0.12 mg/kg	< 0.12 mg/kg < 0.12 mg/kg < 0.12 mg/kg < 0.12 mg/kg	< 0.50 ug/l	< 0.54 ug/l < 0.54 ug/l	< 0.12 mg/kg	< 0.54 ug/l	< 0.12 mg/kg < 0.12 mg/kg < 0.12 mg/kg	< 0.12 mg/kg	< 0.54 ug/l	< 0.50 ug/l < 0.50 ug/l	< 0.50 ug/l < 0.54 ug/l	< 0.50 ug/l < 0.50 ug/l		
Bis(2-chloroethoxy)methane	< 0.021 mg/kg	< 0.021 mg/kg < 0.021 mg/kg < 0.021 mg/kg < 0.021 mg/kg	< 0.17 ug/l	< 0.18 ug/l < 0.18 ug/l	< 0.021 mg/kg	< 0.18 ug/l	< 0.021 mg/kg < 0.021 mg/kg < 0.021 mg/kg	< 0.021 mg/kg	< 0.18 ug/l	< 0.17 ug/l < 0.17 ug/l	< 0.17 ug/l < 0.18 ug/l	< 0.17 ug/l < 0.17 ug/l		
Bis(2-chloroethyl)ether	< 0.024 mg/kg	< 0.024 mg/kg < 0.024 mg/kg < 0.024 mg/kg < 0.024 mg/kg	< 0.16 ug/l	< 0.17 ug/l < 0.17 ug/l	< 0.024 mg/kg	< 0.17 ug/l	< 0.024 mg/kg < 0.024 mg/kg < 0.024 mg/kg	< 0.024 mg/kg	< 0.17 ug/l	< 0.16 ug/l < 0.16 ug/l	< 0.16 ug/l < 0.17 ug/l	< 0.16 ug/l < 0.17 ug/l		
Bis(2-chloroisopropyl)ether	< 0.022 mg/kg	< 0.022 mg/kg < 0.022 mg/kg < 0.022 mg/kg < 0.022 mg/kg	< 0.18 ug/l	< 0.19 ug/l < 0.19 ug/l	< 0.022 mg/kg	< 0.19 ug/l	< 0.022 mg/kg < 0.022 mg/kg < 0.022 mg/kg	< 0.022 mg/kg	< 0.19 ug/l	< 0.18 ug/l < 0.18 ug/l	< 0.18 ug/l < 0.19 ug/l	< 0.18 ug/l < 0.18 ug/l		

Table H-1
Soil/Groundwater Sampling Results - QC Data
SSI/RI Report SOCs 4 and 5
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Sys Loc Code Sample Date	Lab Blank 08/26/2009 Sample Type Code	Lab Blank 08/31/2009 LB	Field Blank 09/01/2009 FB	Lab Blank 09/01/2009 LB	Lab Blank 09/01/2009 LB	Lab Blank 09/02/2009 LB	Lab Blank 09/02/2009 LB	Lab Blank 09/03/2009 LB	Lab Blank 09/08/2009 LB	Field Blank 09/10/2009 FB	Field Blank 09/10/2009 FB	Lab Blank 09/15/2009 LB	Lab Blank 09/15/2009 FB	
Chemical Name														
Bis(2-ethylhexyl)phthalate	< 0.020 mg/kg	< 0.020 mg/kg < 0.020 mg/kg < 0.020 mg/kg < 0.020 mg/kg	< 0.40 ug/l	< 0.43 ug/l < 0.43 ug/l	< 0.020 mg/kg	< 0.43 ug/l	< 0.020 mg/kg < 0.020 mg/kg < 0.020 mg/kg	< 0.020 mg/kg	< 0.43 ug/l	< 0.40 ug/l	< 0.40 ug/l	< 0.43 ug/l	< 0.40 ug/l	
Butyl benzyl phthalate	< 0.021 mg/kg	< 0.021 mg/kg < 0.021 mg/kg < 0.021 mg/kg < 0.021 mg/kg	< 0.34 ug/l	< 0.37 ug/l < 0.37 ug/l	< 0.021 mg/kg	< 0.37 ug/l	< 0.021 mg/kg < 0.021 mg/kg < 0.021 mg/kg	< 0.021 mg/kg	< 0.37 ug/l	< 0.34 ug/l	< 0.34 ug/l	< 0.37 ug/l	< 0.34 ug/l	
Carbazole	< 0.022 mg/kg	< 0.022 mg/kg < 0.022 mg/kg < 0.022 mg/kg < 0.022 mg/kg	< 0.24 ug/l	< 0.26 ug/l < 0.26 ug/l	< 0.022 mg/kg	< 0.26 ug/l	< 0.022 mg/kg < 0.022 mg/kg < 0.022 mg/kg	< 0.022 mg/kg	< 0.26 ug/l	< 0.24 ug/l	< 0.24 ug/l	< 0.26 ug/l	< 0.24 ug/l	
Chrysene	< 0.033 mg/kg	< 0.033 mg/kg < 0.033 mg/kg < 0.033 mg/kg < 0.033 mg/kg	< 0.25 ug/l	< 0.27 ug/l < 0.27 ug/l	< 0.033 mg/kg	< 0.27 ug/l	< 0.033 mg/kg < 0.033 mg/kg < 0.033 mg/kg	< 0.033 mg/kg	< 0.27 ug/l	< 0.25 ug/l	< 0.25 ug/l	< 0.27 ug/l	< 0.25 ug/l	
Dibenz(a,h)anthracene	< 0.034 mg/kg	< 0.034 mg/kg < 0.034 mg/kg < 0.034 mg/kg < 0.034 mg/kg	< 0.21 ug/l	< 0.23 ug/l < 0.23 ug/l	< 0.034 mg/kg	< 0.23 ug/l	< 0.034 mg/kg < 0.034 mg/kg < 0.034 mg/kg	< 0.034 mg/kg	< 0.23 ug/l	< 0.21 ug/l	< 0.21 ug/l	< 0.23 ug/l	< 0.21 ug/l	
Dibenzofuran	< 0.019 mg/kg	< 0.019 mg/kg < 0.019 mg/kg < 0.019 mg/kg < 0.019 mg/kg	< 0.36 ug/l	< 0.39 ug/l < 0.39 ug/l	< 0.019 mg/kg	< 0.39 ug/l	< 0.019 mg/kg < 0.019 mg/kg < 0.019 mg/kg	< 0.019 mg/kg	< 0.39 ug/l	< 0.36 ug/l	< 0.36 ug/l	< 0.39 ug/l	< 0.36 ug/l	
Diethyl phthalate	< 0.015 mg/kg	< 0.015 mg/kg < 0.015 mg/kg < 0.015 mg/kg < 0.015 mg/kg	< 0.21 ug/l	< 0.23 ug/l < 0.23 ug/l	< 0.015 mg/kg	< 0.23 ug/l	< 0.015 mg/kg < 0.015 mg/kg < 0.015 mg/kg	< 0.015 mg/kg	< 0.23 ug/l	< 0.21 ug/l	< 0.21 ug/l	< 0.23 ug/l	< 0.21 ug/l	
Dimethyl phthalate	< 0.018 mg/kg	< 0.018 mg/kg < 0.018 mg/kg < 0.018 mg/kg < 0.018 mg/kg	< 0.22 ug/l	< 0.24 ug/l < 0.24 ug/l	< 0.018 mg/kg	< 0.24 ug/l	< 0.018 mg/kg < 0.018 mg/kg < 0.018 mg/kg	< 0.018 mg/kg	< 0.24 ug/l	< 0.22 ug/l	< 0.22 ug/l	< 0.24 ug/l	< 0.22 ug/l	
Di-n-butyl phthalate	< 0.037 mg/kg	< 0.037 mg/kg < 0.037 mg/kg 0.109 j mg/kg 0.109 j mg/kg	< 0.26 ug/l	< 0.28 ug/l < 0.28 ug/l	0.109 j mg/kg	< 0.28 ug/l	< 0.037 mg/kg < 0.037 mg/kg < 0.037 mg/kg	< 0.037 mg/kg	< 0.28 ug/l	< 0.26 ug/l	< 0.26 ug/l	< 0.28 ug/l	< 0.26 ug/l	
Di-n-octyl phthalate	< 0.025 mg/kg	< 0.025 mg/kg < 0.025 mg/kg < 0.025 mg/kg < 0.025 mg/kg	< 0.35 ug/l	< 0.38 ug/l < 0.38 ug/l	< 0.025 mg/kg	< 0.38 ug/l	< 0.025 mg/kg < 0.025 mg/kg < 0.025 mg/kg	< 0.025 mg/kg	< 0.38 ug/l	< 0.35 ug/l	< 0.35 ug/l	< 0.38 ug/l	< 0.35 ug/l	
Fluoranthene	< 0.024 mg/kg	< 0.024 mg/kg < 0.024 mg/kg < 0.024 mg/kg < 0.024 mg/kg	< 0.36 ug/l	< 0.39 ug/l < 0.39 ug/l	< 0.024 mg/kg	< 0.39 ug/l	< 0.024 mg/kg < 0.024 mg/kg < 0.024 mg/kg	< 0.024 mg/kg	< 0.39 ug/l	< 0.36 ug/l	< 0.36 ug/l	< 0.39 ug/l	< 0.36 ug/l	

Table H-1
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SSI/RI Report SOCs 4 and 5
UMore Mining Area
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Sys Loc Code Sample Date	Lab Blank 08/26/2009 Sample Type Code	Lab Blank 08/31/2009 LB	Field Blank 09/01/2009 FB	Lab Blank 09/01/2009 LB	Lab Blank 09/01/2009 LB	Lab Blank 09/02/2009 LB	Lab Blank 09/02/2009 LB	Lab Blank 09/03/2009 LB	Lab Blank 09/08/2009 LB	Field Blank 09/10/2009 FB	Field Blank 09/10/2009 FB	Lab Blank 09/15/2009 LB	Lab Blank 09/15/2009 FB	
Chemical Name														
Fluorene	< 0.018 mg/kg	< 0.018 mg/kg < 0.018 mg/kg < 0.018 mg/kg < 0.018 mg/kg	< 0.37 ug/l	< 0.40 ug/l < 0.40 ug/l	< 0.018 mg/kg	< 0.40 ug/l	< 0.018 mg/kg < 0.018 mg/kg < 0.018 mg/kg	< 0.018 mg/kg	< 0.40 ug/l	< 0.37 ug/l	< 0.37 ug/l	< 0.40 ug/l	< 0.37 ug/l	
Hexachlorobenzene	< 0.016 mg/kg	< 0.016 mg/kg < 0.016 mg/kg < 0.016 mg/kg < 0.016 mg/kg	< 0.19 ug/l	< 0.20 ug/l < 0.20 ug/l	< 0.016 mg/kg	< 0.20 ug/l	< 0.016 mg/kg < 0.016 mg/kg < 0.016 mg/kg	< 0.016 mg/kg	< 0.20 ug/l	< 0.19 ug/l	< 0.19 ug/l	< 0.20 ug/l	< 0.19 ug/l	
Hexachlorobutadiene	< 0.033 mg/kg	< 0.033 mg/kg < 0.033 mg/kg < 0.033 mg/kg < 0.033 mg/kg	< 0.24 ug/l	< 0.26 ug/l < 0.26 ug/l	< 0.033 mg/kg	< 0.26 ug/l	< 0.033 mg/kg < 0.033 mg/kg < 0.033 mg/kg	< 0.033 mg/kg	< 0.26 ug/l	< 0.24 ug/l	< 0.24 ug/l	< 0.26 ug/l	< 0.24 ug/l	
Hexachlorocyclopentadiene	< 0.041 mg/kg	< 0.041 mg/kg < 0.041 mg/kg < 0.041 mg/kg < 0.041 mg/kg	< 0.29 ug/l	< 0.31 ug/l < 0.31 ug/l	< 0.041 mg/kg	< 0.31 ug/l	< 0.041 mg/kg < 0.041 mg/kg < 0.041 mg/kg	< 0.041 mg/kg	< 0.31 ug/l	< 0.29 ug/l	< 0.29 ug/l	< 0.31 ug/l	< 0.29 ug/l	
Hexachloroethane	< 0.028 mg/kg	< 0.028 mg/kg < 0.028 mg/kg < 0.028 mg/kg < 0.028 mg/kg	< 0.29 ug/l	< 0.31 ug/l < 0.31 ug/l	< 0.028 mg/kg	< 0.31 ug/l	< 0.028 mg/kg < 0.028 mg/kg < 0.028 mg/kg	< 0.028 mg/kg	< 0.31 ug/l	< 0.29 ug/l	< 0.29 ug/l	< 0.31 ug/l	< 0.29 ug/l	
Indeno(1,2,3-cd)pyrene	< 0.032 mg/kg	< 0.032 mg/kg < 0.032 mg/kg < 0.032 mg/kg < 0.032 mg/kg	< 0.29 ug/l	< 0.31 ug/l < 0.31 ug/l	< 0.032 mg/kg	< 0.31 ug/l	< 0.032 mg/kg < 0.032 mg/kg < 0.032 mg/kg	< 0.032 mg/kg	< 0.31 ug/l	< 0.29 ug/l	< 0.29 ug/l	< 0.31 ug/l	< 0.29 ug/l	
Isophorone	< 0.017 mg/kg	< 0.017 mg/kg < 0.017 mg/kg < 0.017 mg/kg < 0.017 mg/kg	< 0.21 ug/l	< 0.23 ug/l < 0.23 ug/l	< 0.017 mg/kg	< 0.23 ug/l	< 0.017 mg/kg < 0.017 mg/kg < 0.017 mg/kg	< 0.017 mg/kg	< 0.23 ug/l	< 0.21 ug/l	< 0.21 ug/l	< 0.23 ug/l	< 0.21 ug/l	
Naphthalene	< 0.029 mg/kg	< 0.029 mg/kg < 0.029 mg/kg < 0.029 mg/kg < 0.029 mg/kg	< 0.34 ug/l	< 0.37 ug/l < 0.37 ug/l	< 0.029 mg/kg	< 0.37 ug/l	< 0.029 mg/kg < 0.029 mg/kg < 0.029 mg/kg	< 0.029 mg/kg	< 0.37 ug/l	< 0.34 ug/l	< 0.34 ug/l	< 0.37 ug/l	< 0.34 ug/l	
Nitrobenzene	< 0.030 mg/kg	< 0.030 mg/kg < 0.030 mg/kg < 0.030 mg/kg < 0.030 mg/kg	< 0.36 ug/l	< 0.39 ug/l < 0.39 ug/l	< 0.030 mg/kg	< 0.39 ug/l	< 0.030 mg/kg < 0.030 mg/kg < 0.030 mg/kg	< 0.030 mg/kg	< 0.39 ug/l	< 0.36 ug/l	< 0.36 ug/l	< 0.39 ug/l	< 0.36 ug/l	
N-Nitrosodimethylamine	< 0.032 mg/kg	< 0.032 mg/kg < 0.032 mg/kg < 0.032 mg/kg < 0.032 mg/kg	< 0.88 ug/l	< 0.95 ug/l < 0.95 ug/l	< 0.032 mg/kg	< 0.95 ug/l	< 0.032 mg/kg < 0.032 mg/kg < 0.032 mg/kg	< 0.032 mg/kg	< 0.95 ug/l	< 0.88 ug/l	< 0.88 ug/l	< 0.95 ug/l	< 0.88 ug/l	
N-Nitrosodi-n-propylamine	< 0.025 mg/kg	< 0.025 mg/kg < 0.025 mg/kg < 0.025 mg/kg < 0.025 mg/kg	< 0.19 ug/l	< 0.21 ug/l < 0.21 ug/l	< 0.025 mg/kg	< 0.21 ug/l	< 0.025 mg/kg < 0.025 mg/kg < 0.025 mg/kg	< 0.025 mg/kg	< 0.21 ug/l	< 0.19 ug/l	< 0.19 ug/l	< 0.21 ug/l	< 0.19 ug/l	

Table H-1
Soil/Groundwater Sampling Results - QC Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
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Sys Loc Code Sample Date	Lab Blank 08/26/2009	Lab Blank 08/31/2009	Field Blank 09/01/2009	Lab Blank 09/01/2009	Lab Blank 09/01/2009	Lab Blank 09/02/2009	Lab Blank 09/02/2009	Lab Blank 09/03/2009	Lab Blank 09/08/2009	Field Blank 09/10/2009	Field Blank 09/10/2009	Lab Blank 09/15/2009	Lab Blank 09/15/2009	Field Blank 09/15/2009
Sample Type Code	LB	LB	FB	LB	LB	LB	LB	LB	LB	FB	FB	LB	LB	FB
Chemical Name														
N-Nitrosodiphenylamine	< 0.018 mg/kg	< 0.018 mg/kg < 0.018 mg/kg < 0.018 mg/kg < 0.018 mg/kg	< 0.21 ug/l	< 0.23 ug/l < 0.23 ug/l	< 0.018 mg/kg	< 0.23 ug/l	< 0.018 mg/kg < 0.018 mg/kg < 0.018 mg/kg	< 0.018 mg/kg	< 0.23 ug/l	< 0.21 ug/l	< 0.21 ug/l	< 0.23 ug/l	< 0.21 ug/l	
o-Cresol	< 0.035 mg/kg	< 0.035 mg/kg < 0.035 mg/kg < 0.035 mg/kg < 0.035 mg/kg	< 0.58 ug/l	< 0.63 ug/l < 0.63 ug/l	< 0.035 mg/kg	< 0.63 ug/l	< 0.035 mg/kg < 0.035 mg/kg < 0.035 mg/kg	< 0.035 mg/kg	< 0.63 ug/l	< 0.58 ug/l	< 0.58 ug/l	< 0.63 ug/l	< 0.58 ug/l	
p-Cresol	< 0.027 mg/kg	< 0.027 mg/kg < 0.027 mg/kg < 0.027 mg/kg < 0.027 mg/kg	< 0.73 ug/l	< 0.79 ug/l < 0.79 ug/l	< 0.027 mg/kg	< 0.79 ug/l	< 0.027 mg/kg < 0.027 mg/kg < 0.027 mg/kg	< 0.027 mg/kg	< 0.79 ug/l	< 0.73 ug/l	< 0.73 ug/l	< 0.79 ug/l	< 0.73 ug/l	
Pentachlorophenol	< 0.096 mg/kg	< 0.096 mg/kg < 0.096 mg/kg < 0.096 mg/kg < 0.096 mg/kg	< 0.55 ug/l	< 0.59 ug/l < 0.59 ug/l	< 0.096 mg/kg	< 0.59 ug/l	< 0.096 mg/kg < 0.096 mg/kg < 0.096 mg/kg	< 0.096 mg/kg	< 0.59 ug/l	< 0.55 ug/l	< 0.55 ug/l	< 0.59 ug/l	< 0.55 ug/l	
Phenanthrene	< 0.019 mg/kg	< 0.019 mg/kg < 0.019 mg/kg < 0.019 mg/kg < 0.019 mg/kg	< 0.36 ug/l	< 0.39 ug/l < 0.39 ug/l	< 0.019 mg/kg	< 0.39 ug/l	< 0.019 mg/kg < 0.019 mg/kg < 0.019 mg/kg	< 0.019 mg/kg	< 0.39 ug/l	< 0.36 ug/l	< 0.36 ug/l	< 0.39 ug/l	< 0.36 ug/l	
Phenol	< 0.057 mg/kg	< 0.057 mg/kg < 0.057 mg/kg < 0.057 mg/kg < 0.057 mg/kg	< 0.53 ug/l	< 0.57 ug/l < 0.57 ug/l	< 0.057 mg/kg	< 0.57 ug/l	< 0.057 mg/kg < 0.057 mg/kg < 0.057 mg/kg	< 0.057 mg/kg	< 0.57 ug/l	< 0.53 ug/l	< 0.53 ug/l	< 0.57 ug/l	< 0.53 ug/l	
Pyrene	< 0.023 mg/kg	< 0.023 mg/kg < 0.023 mg/kg < 0.023 mg/kg < 0.023 mg/kg	< 0.44 ug/l	< 0.47 ug/l < 0.47 ug/l	< 0.023 mg/kg	< 0.47 ug/l	< 0.023 mg/kg < 0.023 mg/kg < 0.023 mg/kg	< 0.023 mg/kg	< 0.47 ug/l	< 0.44 ug/l	< 0.44 ug/l	< 0.47 ug/l	< 0.44 ug/l	

Table H-1
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Sys Loc Code Sample Date Sample Type Code	Lab Blank 09/17/2009 LB	Lab Blank 09/18/2009 LB	Lab Blank 09/22/2009 LB	Lab Blank 09/23/2009 LB	Lab Blank 10/02/2009 LB	Lab Blank 10/06/2009 LB
Chemical Name						
SVOCs						
1,2,4-Trichlorobenzene	< 0.027 mg/kg	< 0.027 mg/kg	< 0.19 ug/l	< 0.027 mg/kg	< 0.027 mg/kg	< 0.19 ug/l
1,2-Dichlorobenzene	< 0.025 mg/kg	< 0.025 mg/kg	< 0.23 ug/l	< 0.025 mg/kg	< 0.025 mg/kg	< 0.23 ug/l
1,3-Dichlorobenzene	< 0.023 mg/kg	< 0.023 mg/kg	< 0.21 ug/l	< 0.023 mg/kg	< 0.023 mg/kg	< 0.21 ug/l
1,4-Dichlorobenzene	< 0.024 mg/kg	< 0.024 mg/kg	< 0.22 ug/l	< 0.024 mg/kg	< 0.024 mg/kg	< 0.22 ug/l
2,3,4,6-Tetrachlorophenol	< 0.038 mg/kg	< 0.038 mg/kg	< 0.61 ug/l	< 0.038 mg/kg	< 0.038 mg/kg	< 0.61 ug/l
2,4,5-Trichlorophenol	< 0.024 mg/kg	< 0.024 mg/kg	< 0.80 ug/l	< 0.024 mg/kg	< 0.024 mg/kg	< 0.80 ug/l
2,4,6-Trichlorophenol	< 0.035 mg/kg	< 0.035 mg/kg	< 0.48 ug/l	< 0.035 mg/kg	< 0.035 mg/kg	< 0.48 ug/l
2,4-Dichlorophenol	< 0.035 mg/kg	< 0.035 mg/kg	< 0.47 ug/l	< 0.035 mg/kg	< 0.035 mg/kg	< 0.47 ug/l
2,4-Dimethylphenol	< 0.090 mg/kg	< 0.090 mg/kg	< 1.6 ug/l	< 0.090 mg/kg	< 0.090 mg/kg	< 1.6 ug/l
2,4-Dinitrophenol	< 0.058 mg/kg	< 0.058 mg/kg	< 1.0 ug/l	< 0.058 mg/kg	< 0.058 mg/kg	< 1.0 ug/l

Table H-1
Soil/Groundwater Sampling Results - QC Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code Sample Date Sample Type Code	Lab Blank 09/17/2009 LB	Lab Blank 09/18/2009 LB	Lab Blank 09/22/2009 LB	Lab Blank 09/23/2009 LB	Lab Blank 10/02/2009 LB	Lab Blank 10/06/2009 LB
Chemical Name						
2,4-Dinitrotoluene	< 0.021 mg/kg	< 0.021 mg/kg	< 0.33 ug/l	< 0.021 mg/kg	< 0.021 mg/kg	< 0.33 ug/l
2,6-Dichlorophenol	< 0.043 mg/kg	< 0.043 mg/kg	< 0.48 ug/l	< 0.043 mg/kg	< 0.043 mg/kg	< 0.48 ug/l
2,6-Dinitrotoluene	< 0.019 mg/kg	< 0.019 mg/kg	< 0.36 ug/l	< 0.019 mg/kg	< 0.019 mg/kg	< 0.36 ug/l
2-Chloronaphthalene	< 0.019 mg/kg	< 0.019 mg/kg	< 0.28 ug/l	< 0.019 mg/kg	< 0.019 mg/kg	< 0.28 ug/l
2-Chlorophenol	< 0.038 mg/kg	< 0.038 mg/kg	< 0.45 ug/l	< 0.038 mg/kg	< 0.038 mg/kg	< 0.45 ug/l
2-Methyl-4,6-dinitrophenol	< 0.074 mg/kg	< 0.074 mg/kg	< 0.65 ug/l	< 0.074 mg/kg	< 0.074 mg/kg	< 0.65 ug/l
2-Methylnaphthalene	< 0.028 mg/kg	< 0.028 mg/kg	< 0.66 ug/l	< 0.028 mg/kg	< 0.028 mg/kg	< 0.66 ug/l
2-Nitroaniline	< 0.020 mg/kg	< 0.020 mg/kg	< 0.72 ug/l	< 0.020 mg/kg	< 0.020 mg/kg	< 0.72 ug/l
2-Nitrophenol	< 0.036 mg/kg	< 0.036 mg/kg	< 0.90 ug/l	< 0.036 mg/kg	< 0.036 mg/kg	< 0.90 ug/l
3,3'-Dichlorobenzidine	< 0.39 mg/kg	< 0.39 mg/kg	< 7.3 ug/l	< 0.39 mg/kg	< 0.39 mg/kg	< 7.3 ug/l
3-Nitroaniline	< 0.033 mg/kg	< 0.033 mg/kg	< 1.2 ug/l	< 0.033 mg/kg	< 0.033 mg/kg	< 1.2 ug/l

Table H-1
Soil/Groundwater Sampling Results - QC Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code Sample Date Sample Type Code	Lab Blank 09/17/2009 LB	Lab Blank 09/18/2009 LB	Lab Blank 09/22/2009 LB	Lab Blank 09/23/2009 LB	Lab Blank 10/02/2009 LB	Lab Blank 10/06/2009 LB
Chemical Name						
4-Bromophenyl phenyl ether	< 0.017 mg/kg	< 0.017 mg/kg	< 0.17 ug/l	< 0.017 mg/kg	< 0.017 mg/kg	< 0.17 ug/l
4-Chloro-3-methylphenol	< 0.040 mg/kg	< 0.040 mg/kg	< 0.55 ug/l	< 0.040 mg/kg	< 0.040 mg/kg	< 0.55 ug/l
4-Chloroaniline	< 0.11 mg/kg	< 0.11 mg/kg	< 2.3 ug/l	< 0.11 mg/kg	< 0.11 mg/kg	< 2.3 ug/l
4-Chlorophenyl phenyl ether	< 0.023 mg/kg	< 0.023 mg/kg	< 0.25 ug/l	< 0.023 mg/kg	< 0.023 mg/kg	< 0.25 ug/l
4-Nitroaniline	< 0.023 mg/kg	< 0.023 mg/kg	< 0.59 ug/l	< 0.023 mg/kg	< 0.023 mg/kg	< 0.59 ug/l
4-Nitrophenol	< 0.099 mg/kg	< 0.099 mg/kg	< 1.2 ug/l	< 0.099 mg/kg	< 0.099 mg/kg	< 1.2 ug/l
Acenaphthene	< 0.028 mg/kg	< 0.028 mg/kg	< 0.36 ug/l	< 0.028 mg/kg	< 0.028 mg/kg	< 0.36 ug/l
Acenaphthylene	< 0.023 mg/kg	< 0.023 mg/kg	< 0.25 ug/l	< 0.023 mg/kg	< 0.023 mg/kg	< 0.25 ug/l
Aniline	< 0.090 mg/kg	< 0.090 mg/kg	< 2.2 ug/l	< 0.090 mg/kg	< 0.090 mg/kg	< 2.2 ug/l
Anthracene	< 0.025 mg/kg	< 0.025 mg/kg	< 0.37 ug/l	< 0.025 mg/kg	< 0.025 mg/kg	< 0.37 ug/l
Azobenzene	< 0.020 mg/kg	< 0.020 mg/kg	< 0.24 ug/l	< 0.020 mg/kg	< 0.020 mg/kg	< 0.24 ug/l

Table H-1
Soil/Groundwater Sampling Results - QC Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code Sample Date Sample Type Code	Lab Blank 09/17/2009 LB	Lab Blank 09/18/2009 LB	Lab Blank 09/22/2009 LB	Lab Blank 09/23/2009 LB	Lab Blank 10/02/2009 LB	Lab Blank 10/06/2009 LB
Chemical Name						
Benzidine	< 0.72 mg/kg	< 0.72 mg/kg	< 18 ug/l	< 0.72 mg/kg	< 0.72 mg/kg	< 18 ug/l
Benzo(a)anthracene	< 0.027 mg/kg	< 0.027 mg/kg	< 0.37 ug/l	< 0.027 mg/kg	< 0.027 mg/kg	< 0.37 ug/l
Benzo(a)pyrene	< 0.027 mg/kg	< 0.027 mg/kg	< 0.29 ug/l	< 0.027 mg/kg	< 0.027 mg/kg	< 0.29 ug/l
Benzo(b)fluoranthene	< 0.034 mg/kg	< 0.034 mg/kg	< 0.22 ug/l	< 0.034 mg/kg	< 0.034 mg/kg	< 0.22 ug/l
Benzo(g,h,i)perylene	< 0.030 mg/kg	< 0.030 mg/kg	< 0.26 ug/l	< 0.030 mg/kg	< 0.030 mg/kg	< 0.26 ug/l
Benzo(k)fluoranthene	< 0.031 mg/kg	< 0.031 mg/kg	< 0.31 ug/l	< 0.031 mg/kg	< 0.031 mg/kg	< 0.31 ug/l
Benzoic Acid	< 0.058 mg/kg	< 0.058 mg/kg	< 1.2 ug/l	< 0.058 mg/kg	< 0.058 mg/kg	< 1.2 ug/l
Benzyl alcohol	< 0.12 mg/kg	< 0.12 mg/kg	< 0.54 ug/l	< 0.12 mg/kg	< 0.12 mg/kg	< 0.54 ug/l
Bis(2-chloroethoxy)methane	< 0.021 mg/kg	< 0.021 mg/kg	< 0.18 ug/l	< 0.021 mg/kg	< 0.021 mg/kg	< 0.18 ug/l
Bis(2-chloroethyl)ether	< 0.024 mg/kg	< 0.024 mg/kg	< 0.17 ug/l	< 0.024 mg/kg	< 0.024 mg/kg	< 0.17 ug/l
Bis(2-chloroisopropyl)ether	< 0.022 mg/kg	< 0.022 mg/kg	< 0.19 ug/l	< 0.022 mg/kg	< 0.022 mg/kg	< 0.19 ug/l

Table H-1
Soil/Groundwater Sampling Results - QC Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code Sample Date Sample Type Code	Lab Blank 09/17/2009 LB	Lab Blank 09/18/2009 LB	Lab Blank 09/22/2009 LB	Lab Blank 09/23/2009 LB	Lab Blank 10/02/2009 LB	Lab Blank 10/06/2009 LB
Chemical Name						
Bis(2-ethylhexyl)phthalate	< 0.020 mg/kg	< 0.020 mg/kg	< 0.43 ug/l	< 0.020 mg/kg	< 0.020 mg/kg	< 0.43 ug/l
Butyl benzyl phthalate	< 0.021 mg/kg	< 0.021 mg/kg	< 0.37 ug/l	< 0.021 mg/kg	< 0.021 mg/kg	< 0.37 ug/l
Carbazole	< 0.022 mg/kg	< 0.022 mg/kg	< 0.26 ug/l	< 0.022 mg/kg	< 0.022 mg/kg	< 0.26 ug/l
Chrysene	< 0.033 mg/kg	< 0.033 mg/kg	< 0.27 ug/l	< 0.033 mg/kg	< 0.033 mg/kg	< 0.27 ug/l
Dibenz(a,h)anthracene	< 0.034 mg/kg	< 0.034 mg/kg	< 0.23 ug/l	< 0.034 mg/kg	< 0.034 mg/kg	< 0.23 ug/l
Dibenzofuran	< 0.019 mg/kg	< 0.019 mg/kg	< 0.39 ug/l	< 0.019 mg/kg	< 0.019 mg/kg	< 0.39 ug/l
Diethyl phthalate	< 0.015 mg/kg	< 0.015 mg/kg	< 0.23 ug/l	< 0.015 mg/kg	< 0.015 mg/kg	2.12 j ug/l
Dimethyl phthalate	< 0.018 mg/kg	< 0.018 mg/kg	< 0.24 ug/l	< 0.018 mg/kg	< 0.018 mg/kg	< 0.24 ug/l
Di-n-butyl phthalate	< 0.037 mg/kg	< 0.037 mg/kg	< 0.28 ug/l	< 0.037 mg/kg	< 0.037 mg/kg	< 0.28 ug/l
Di-n-octyl phthalate	< 0.025 mg/kg	< 0.025 mg/kg	< 0.38 ug/l	< 0.025 mg/kg	< 0.025 mg/kg	< 0.38 ug/l
Fluoranthene	< 0.024 mg/kg	< 0.024 mg/kg	< 0.39 ug/l	< 0.024 mg/kg	< 0.024 mg/kg	< 0.39 ug/l

Table H-1
Soil/Groundwater Sampling Results - QC Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code Sample Date Sample Type Code	Lab Blank 09/17/2009 LB	Lab Blank 09/18/2009 LB	Lab Blank 09/22/2009 LB	Lab Blank 09/23/2009 LB	Lab Blank 10/02/2009 LB	Lab Blank 10/06/2009 LB
Chemical Name						
Fluorene	< 0.018 mg/kg	< 0.018 mg/kg	< 0.40 ug/l	< 0.018 mg/kg	< 0.018 mg/kg	< 0.40 ug/l
Hexachlorobenzene	< 0.016 mg/kg	< 0.016 mg/kg	< 0.20 ug/l	< 0.016 mg/kg	< 0.016 mg/kg	< 0.20 ug/l
Hexachlorobutadiene	< 0.033 mg/kg	< 0.033 mg/kg	< 0.26 ug/l	< 0.033 mg/kg	< 0.033 mg/kg	< 0.26 ug/l
Hexachlorocyclopentadiene	< 0.041 mg/kg	< 0.041 mg/kg	< 0.31 ug/l	< 0.041 mg/kg	< 0.041 mg/kg	< 0.31 ug/l
Hexachloroethane	< 0.028 mg/kg	< 0.028 mg/kg	< 0.31 ug/l	< 0.028 mg/kg	< 0.028 mg/kg	< 0.31 ug/l
Indeno(1,2,3-cd)pyrene	< 0.032 mg/kg	< 0.032 mg/kg	< 0.31 ug/l	< 0.032 mg/kg	< 0.032 mg/kg	< 0.31 ug/l
Isophorone	< 0.017 mg/kg	< 0.017 mg/kg	< 0.23 ug/l	< 0.017 mg/kg	< 0.017 mg/kg	< 0.23 ug/l
Naphthalene	< 0.029 mg/kg	< 0.029 mg/kg	< 0.37 ug/l	< 0.029 mg/kg	< 0.029 mg/kg	< 0.37 ug/l
Nitrobenzene	< 0.030 mg/kg	< 0.030 mg/kg	< 0.39 ug/l	< 0.030 mg/kg	< 0.030 mg/kg	< 0.39 ug/l
N-Nitrosodimethylamine	< 0.032 mg/kg	< 0.032 mg/kg	< 0.95 ug/l	< 0.032 mg/kg	< 0.032 mg/kg	< 0.95 ug/l
N-Nitrosodi-n-propylamine	< 0.025 mg/kg	< 0.025 mg/kg	< 0.21 ug/l	< 0.025 mg/kg	< 0.025 mg/kg	< 0.21 ug/l

Table H-1
Soil/Groundwater Sampling Results - QC Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code Sample Date Sample Type Code	Lab Blank 09/17/2009 LB	Lab Blank 09/18/2009 LB	Lab Blank 09/22/2009 LB	Lab Blank 09/23/2009 LB	Lab Blank 10/02/2009 LB	Lab Blank 10/06/2009 LB
Chemical Name						
N-Nitrosodiphenylamine	< 0.018 mg/kg	< 0.018 mg/kg	< 0.23 ug/l	< 0.018 mg/kg	< 0.018 mg/kg	< 0.23 ug/l
o-Cresol	< 0.035 mg/kg	< 0.035 mg/kg	< 0.63 ug/l	< 0.035 mg/kg	< 0.035 mg/kg	< 0.63 ug/l
p-Cresol	< 0.027 mg/kg	< 0.027 mg/kg	< 0.79 ug/l	< 0.027 mg/kg	< 0.027 mg/kg	< 0.79 ug/l
Pentachlorophenol	< 0.096 mg/kg	< 0.096 mg/kg	< 0.59 ug/l	< 0.096 mg/kg	< 0.096 mg/kg	< 0.59 ug/l
Phenanthrene	< 0.019 mg/kg	< 0.019 mg/kg	< 0.39 ug/l	< 0.019 mg/kg	< 0.019 mg/kg	< 0.39 ug/l
Phenol	< 0.057 mg/kg	< 0.057 mg/kg	< 0.57 ug/l	< 0.057 mg/kg	< 0.057 mg/kg	< 0.57 ug/l
Pyrene	< 0.023 mg/kg	< 0.023 mg/kg	< 0.47 ug/l	< 0.023 mg/kg	< 0.023 mg/kg	< 0.47 ug/l

Table H-1
Soil/Groundwater Sampling Results - QC Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code Sample Date	Lab Blank 08/31/2009	Lab Blank 09/01/2009	Lab Blank 09/02/2009	Trip Blank 09/02/2009	Lab Blank 09/08/2009	Trip Blank 09/15/2009	Field Blank 09/15/2009	Lab Blank 09/17/2009	Lab Blank 09/18/2009	Lab Blank 09/23/2009	Lab Blank 10/06/2009
Sample Type Code	LB	LB	LB	TB	LB	TB	FB	LB	LB	LB	LB
Chemical Name											
VOCs											
1,1,1,2-Tetrachloroethane	< 0.026 mg/kg	< 0.28 ug/l	< 0.28 ug/l	< 0.28 ug/l	< 0.28 ug/l	< 0.28 ug/l	< 0.28 ug/l	< 0.026 mg/kg	< 0.28 ug/l	< 0.28 ug/l	< 0.28 ug/l
1,1,1-Trichloroethane	< 0.033 mg/kg	< 0.17 ug/l	< 0.17 ug/l	< 0.17 ug/l	< 0.17 ug/l	< 0.17 ug/l	< 0.17 ug/l	< 0.033 mg/kg	< 0.17 ug/l	< 0.17 ug/l	< 0.17 ug/l
1,1,2,2-Tetrachloroethane	< 0.025 mg/kg	< 0.13 ug/l	< 0.13 ug/l	< 0.13 ug/l	< 0.13 ug/l	< 0.13 ug/l	< 0.13 ug/l	< 0.025 mg/kg	< 0.13 ug/l	< 0.13 ug/l	< 0.13 ug/l
1,1,2-Trichloroethane	< 0.037 mg/kg	< 0.19 ug/l	< 0.19 ug/l	< 0.19 ug/l	< 0.19 ug/l	< 0.19 ug/l	< 0.19 ug/l	< 0.037 mg/kg	< 0.19 ug/l	< 0.19 ug/l	< 0.19 ug/l
1,1-Dichloro-1-propene	< 0.027 mg/kg	< 0.15 ug/l	< 0.15 ug/l	< 0.15 ug/l	< 0.15 ug/l	< 0.15 ug/l	< 0.15 ug/l	< 0.027 mg/kg	< 0.15 ug/l	< 0.15 ug/l	< 0.15 ug/l
1,1-Dichloroethane	< 0.024 mg/kg	< 0.11 ug/l	< 0.11 ug/l	< 0.11 ug/l	< 0.11 ug/l	< 0.11 ug/l	< 0.11 ug/l	< 0.024 mg/kg	< 0.11 ug/l	< 0.11 ug/l	< 0.11 ug/l
1,1-Dichloroethylene	< 0.025 mg/kg	< 0.12 ug/l	< 0.12 ug/l	< 0.12 ug/l	< 0.12 ug/l	< 0.12 ug/l	< 0.12 ug/l	< 0.025 mg/kg	< 0.12 ug/l	< 0.12 ug/l	< 0.12 ug/l
1,2,3-Trichlorobenzene	< 0.066 mg/kg	< 0.47 ug/l	< 0.47 ug/l	< 0.47 ug/l	< 0.47 ug/l	< 0.47 ug/l	< 0.47 ug/l	< 0.066 mg/kg	< 0.47 ug/l	< 0.47 ug/l	< 0.47 ug/l
1,2,3-Trichloropropane	< 0.053 mg/kg	< 0.24 ug/l	< 0.24 ug/l	< 0.24 ug/l	< 0.24 ug/l	< 0.24 ug/l	< 0.24 ug/l	< 0.053 mg/kg	< 0.24 ug/l	< 0.24 ug/l	< 0.24 ug/l
1,2,4-Trichlorobenzene	< 0.064 mg/kg	< 0.32 ug/l	< 0.32 ug/l	< 0.32 ug/l	< 0.32 ug/l	< 0.32 ug/l	< 0.32 ug/l	< 0.064 mg/kg	< 0.32 ug/l	< 0.32 ug/l	< 0.32 ug/l
1,2,4-Trimethylbenzene	< 0.020 mg/kg	< 0.17 ug/l	< 0.17 ug/l	< 0.17 ug/l	< 0.17 ug/l	< 0.17 ug/l	< 0.17 ug/l	< 0.020 mg/kg	< 0.17 ug/l	< 0.17 ug/l	< 0.17 ug/l
1,2-Dibromo-3-chloropropane	< 0.057 mg/kg	< 0.60 ug/l	< 0.60 ug/l	< 0.60 ug/l	< 0.60 ug/l	< 0.60 ug/l	< 0.60 ug/l	< 0.057 mg/kg	< 0.60 ug/l	< 0.60 ug/l	< 0.60 ug/l
1,2-Dibromoethane	< 0.038 mg/kg	< 0.37 ug/l	< 0.37 ug/l	< 0.37 ug/l	< 0.37 ug/l	< 0.37 ug/l	< 0.37 ug/l	< 0.038 mg/kg	< 0.37 ug/l	< 0.37 ug/l	< 0.37 ug/l
1,2-Dichlorobenzene	< 0.027 mg/kg	< 0.16 ug/l	< 0.16 ug/l	< 0.16 ug/l	< 0.16 ug/l	< 0.16 ug/l	< 0.16 ug/l	< 0.027 mg/kg	< 0.16 ug/l	< 0.16 ug/l	< 0.16 ug/l
1,2-Dichloroethane	< 0.025 mg/kg	< 0.18 ug/l	< 0.18 ug/l	< 0.18 ug/l	< 0.18 ug/l	< 0.18 ug/l	< 0.18 ug/l	< 0.025 mg/kg	< 0.18 ug/l	< 0.18 ug/l	< 0.18 ug/l
1,2-Dichloroethylene, cis	< 0.046 mg/kg	< 0.19 ug/l	< 0.19 ug/l	< 0.19 ug/l	< 0.19 ug/l	< 0.19 ug/l	< 0.19 ug/l	< 0.046 mg/kg	< 0.19 ug/l	< 0.19 ug/l	< 0.19 ug/l
1,2-Dichloroethylene, trans	< 0.022 mg/kg	< 0.29 ug/l	< 0.29 ug/l	< 0.29 ug/l	< 0.29 ug/l	< 0.29 ug/l	< 0.29 ug/l	< 0.022 mg/kg	< 0.29 ug/l	< 0.29 ug/l	< 0.29 ug/l
1,2-Dichloropropane	< 0.028 mg/kg	< 0.21 ug/l	< 0.21 ug/l	< 0.21 ug/l	< 0.21 ug/l	< 0.21 ug/l	< 0.21 ug/l	< 0.028 mg/kg	< 0.21 ug/l	< 0.21 ug/l	< 0.21 ug/l
1,3,5-Trimethylbenzene	< 0.015 mg/kg	< 0.18 ug/l	< 0.18 ug/l	< 0.18 ug/l	< 0.18 ug/l	< 0.18 ug/l	< 0.18 ug/l	< 0.015 mg/kg	< 0.18 ug/l	< 0.18 ug/l	< 0.18 ug/l
1,3-Dichloro-1-propene trans	< 0.035 mg/kg	< 0.17 ug/l	< 0.17 ug/l	< 0.17 ug/l	< 0.17 ug/l	< 0.17 ug/l	< 0.17 ug/l	< 0.035 mg/kg	< 0.17 ug/l	< 0.17 ug/l	< 0.17 ug/l
1,3-Dichloro-1-propene, cis	< 0.023 mg/kg	< 0.16 ug/l	< 0.16 ug/l	< 0.16 ug/l	< 0.16 ug/l	< 0.16 ug/l	< 0.16 ug/l	< 0.023 mg/kg	< 0.16 ug/l	< 0.16 ug/l	< 0.16 ug/l
1,3-Dichlorobenzene	< 0.028 mg/kg	< 0.21 ug/l	< 0.21 ug/l	< 0.21 ug/l	< 0.21 ug/l	< 0.21 ug/l	< 0.21 ug/l	< 0.028 mg/kg	< 0.21 ug/l	< 0.21 ug/l	< 0.21 ug/l
1,3-Dichloropropane	< 0.017 mg/kg	< 0.15 ug/l	< 0.15 ug/l	< 0.15 ug/l	< 0.15 ug/l	< 0.15 ug/l	< 0.15 ug/l	< 0.017 mg/kg	< 0.15 ug/l	< 0.15 ug/l	< 0.15 ug/l
1,4-Dichlorobenzene	< 0.018 mg/kg	< 0.17 ug/l	< 0.17 ug/l	< 0.17 ug/l	< 0.17 ug/l	< 0.17 ug/l	< 0.17 ug/l	< 0.018 mg/kg	< 0.17 ug/l	< 0.17 ug/l	< 0.17 ug/l
2,2-Dichloropropane	< 0.068 mg/kg	< 0.58 ug/l	< 0.58 ug/l	< 0.58 ug/l	< 0.58 ug/l	< 0.58 ug/l	< 0.58 ug/l	< 0.068 mg/kg	< 0.58 ug/l	< 0.58 ug/l	< 0.58 ug/l
Acetone	< 0.32 mg/kg	< 2.8 ug/l	< 2.8 ug/l	< 2.8 ug/l	< 2.8 ug/l	< 2.8 ug/l	< 2.8 ug/l	< 0.32 mg/kg	< 2.8 ug/l	< 2.8 ug/l	< 2.8 ug/l
Allyl Chloride	< 0.067 mg/kg	< 0.76 ug/l	< 0.76 ug/l	< 0.76 ug/l	< 0.76 ug/l	< 0.76 ug/l	< 0.76 ug/l	< 0.067 mg/kg	< 0.76 ug/l	< 0.76 ug/l	< 0.76 ug/l
Benzene	< 0.015 mg/kg	< 0.093 ug/l	< 0.093 ug/l	< 0.093 ug/l	< 0.093 ug/l	< 0.093 ug/l	< 0.093 ug/l	< 0.015 mg/kg	< 0.093 ug/l	< 0.093 ug/l	< 0.093 ug/l
Bromobenzene	< 0.019 mg/kg	< 0.17 ug/l	< 0.17 ug/l	< 0.17 ug/l	< 0.17 ug/l	< 0.17 ug/l	< 0.17 ug/l	< 0.019 mg/kg	< 0.17 ug/l	< 0.17 ug/l	< 0.17 ug/l
Bromochloromethane	< 0.025 mg/kg	< 0.21 ug/l	< 0.21 ug/l	< 0.21 ug/l	< 0.21 ug/l	< 0.21 ug/l	< 0.21 ug/l	< 0.025 mg/kg	< 0.21 ug/l	< 0.21 ug/l	< 0.21 ug/l
Bromodichloromethane	< 0.035 mg/kg	< 0.22 ug/l	< 0.22 ug/l	< 0.22 ug/l	< 0.22 ug/l	< 0.22 ug/l	< 0.22 ug/l	< 0.035 mg/kg	< 0.22 ug/l	< 0.22 ug/l	< 0.22 ug/l
Bromoform	< 0.080 mg/kg	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	< 0.080 mg/kg	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l
Bromomethane	< 0.14 mg/kg	< 0.95 ug/l	< 0.95 ug/l	< 0.95 ug/l	< 0.95 ug/l	< 0.95 ug/l	< 0.95 ug/l	< 0.14 mg/kg	< 0.95 ug/l	< 0.95 ug/l	< 0.95 ug/l
Butyl benzene	< 0.032 mg/kg	< 0.32 ug/l	< 0.32 ug/l	< 0.32 ug/l	< 0.32 ug/l	< 0.32 ug/l	< 0.32 ug/l	< 0.032 mg/kg	< 0.32 ug/l	< 0.32 ug/l	< 0.32 ug/l
Butylbenzene sec	< 0.010 mg/kg	< 0.22 ug/l	< 0.22 ug/l	< 0.22 ug/l	< 0.22 ug/l	< 0.22 ug/l	< 0.22 ug/l	< 0.010 mg/kg	< 0.22 ug/l	< 0.22 ug/l	< 0.22 ug/l
Butylbenzene tert-	< 0.018 mg/kg	< 0.19 ug/l	< 0.19 ug/l	< 0.19 ug/l	< 0.19 ug/l	< 0.19 ug/l	< 0.19 ug/l	< 0.018 mg/kg	< 0.19 ug/l	< 0.19 ug/l	< 0.19 ug/l
Carbon tetrachloride	< 0.027 mg/kg	< 0.16 ug/l	< 0.16 ug/l	< 0.16 ug/l	< 0.16 ug/l	< 0.16 ug/l	< 0.16 ug/l	< 0.027 mg/kg	< 0.16 ug/l	< 0.16 ug/l	< 0.16 ug/l
Chlorobenzene	< 0.025 mg/kg	< 0.15 ug/l	< 0.15 ug/l	< 0.15 ug/l	< 0.15 ug/l	< 0.15 ug/l	< 0.15 ug/l	< 0.025 mg/kg	< 0.15 ug/l	< 0.15 ug/l	< 0.15 ug/l
Chlorodibromomethane	< 0.032 mg/kg	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	< 0.032 mg/kg	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l
Chloroethane	< 0.073 mg/kg	< 0.46 ug/l	< 0.46 ug/l	< 0.46 ug/l	< 0.46 ug/l	< 0.46 ug/l	< 0.46 ug/l	< 0.073 mg/kg	< 0.46 ug/l	< 0.46 ug/l	< 0.46 ug/l
Chloroform	< 0.042 mg/kg	< 0.19 ug/l	< 0.19 ug/l	< 0.19 ug/l	< 0.19 ug/l	< 0.19 ug/l	< 0.19 ug/l	< 0.042 mg/kg	< 0.19 ug/l	< 0.19 ug/l	< 0.19 ug/l
Chloromethane	< 0.041 mg/kg	< 0.37 ug/l	< 0.37 ug/l	< 0.37 ug/l	< 0.37 ug/l	< 0.37 ug/l	< 0.37 ug/l	< 0.041 mg/kg	< 0.37 ug/l	< 0.37 ug/l	< 0.37 ug/l
Chlorotoluene o-	< 0.018 mg/kg	< 0.17 ug/l	< 0.17 ug/l	< 0.17 ug/l	< 0.17 ug/l	< 0.17 ug/l	< 0.17 ug/l	< 0.018 mg/kg	< 0.17 ug/l	< 0.17 ug/l	< 0.17 ug/l

Table H-1
Soil/Groundwater Sampling Results - QC Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code	Lab Blank	Lab Blank	Lab Blank	Trip Blank	Lab Blank	Trip Blank	Field Blank	Lab Blank	Lab Blank	Lab Blank	Lab Blank
Sample Date	08/31/2009	09/01/2009	09/02/2009	09/02/2009	09/08/2009	09/15/2009	09/15/2009	09/17/2009	09/18/2009	09/23/2009	10/06/2009
Sample Type Code	LB	LB	LB	TB	LB	TB	FB	LB	LB	LB	LB
Chemical Name											
Chlorotoluene p-	< 0.029 mg/kg	< 0.14 ug/l	< 0.029 mg/kg	< 0.14 ug/l	< 0.14 ug/l	< 0.14 ug/l					
Cumene (isopropyl benzene)	< 0.023 mg/kg	< 0.17 ug/l	< 0.023 mg/kg	< 0.17 ug/l	< 0.17 ug/l	< 0.17 ug/l					
Cymene p- (Toluene isopropyl p-)	< 0.030 mg/kg	< 0.30 ug/l	< 0.030 mg/kg	< 0.30 ug/l	< 0.30 ug/l	< 0.30 ug/l					
Dibromomethane (methylene bromide)	< 0.046 mg/kg	< 0.30 ug/l	< 0.046 mg/kg	< 0.30 ug/l	< 0.30 ug/l	< 0.30 ug/l					
Dichlorodifluoromethane (CFC-12)	< 0.082 mg/kg	< 0.58 ug/l	< 0.082 mg/kg	< 0.58 ug/l	< 0.58 ug/l	< 0.58 ug/l					
Dichlorofluoromethane (CFC-21)	< 0.044 mg/kg	< 0.31 ug/l	< 0.044 mg/kg	< 0.31 ug/l	< 0.31 ug/l	< 0.31 ug/l					
Ethyl benzene	< 0.022 mg/kg	< 0.21 ug/l	< 0.022 mg/kg	< 0.21 ug/l	< 0.21 ug/l	< 0.21 ug/l					
Ethyl ether	< 0.048 mg/kg	< 0.53 ug/l	< 0.048 mg/kg	< 0.53 ug/l	< 0.53 ug/l	< 0.53 ug/l					
Hexachlorobutadiene	< 0.13 mg/kg	< 0.76 ug/l	< 0.13 mg/kg	< 0.76 ug/l	< 0.76 ug/l	< 0.76 ug/l					
Methyl ethyl ketone	< 0.12 mg/kg	< 0.67 ug/l	< 0.12 mg/kg	< 0.67 ug/l	< 0.67 ug/l	< 0.67 ug/l					
Methyl isobutyl ketone	< 0.092 mg/kg	< 1.1 ug/l	< 0.092 mg/kg	< 1.1 ug/l	< 1.1 ug/l	< 1.1 ug/l					
Methyl tertiary butyl ether (MTBE)	< 0.017 mg/kg	< 0.13 ug/l	< 0.017 mg/kg	< 0.13 ug/l	< 0.13 ug/l	< 0.13 ug/l					
Methylene chloride	< 0.17 mg/kg	< 0.65 ug/l	< 0.17 mg/kg	< 0.65 ug/l	< 0.65 ug/l	< 0.65 ug/l					
Naphthalene	< 0.065 mg/kg	< 0.40 ug/l	< 0.065 mg/kg	< 0.40 ug/l	< 0.40 ug/l	< 0.40 ug/l					
Propylbenzene	< 0.014 mg/kg	< 0.13 ug/l	< 0.014 mg/kg	< 0.13 ug/l	< 0.13 ug/l	< 0.13 ug/l					
Styrene	< 0.040 mg/kg	< 0.13 ug/l	< 0.040 mg/kg	< 0.13 ug/l	< 0.13 ug/l	< 0.13 ug/l					
Tetrachloroethylene	< 0.035 mg/kg	< 0.20 ug/l	< 0.035 mg/kg	< 0.20 ug/l	< 0.20 ug/l	< 0.20 ug/l					
Tetrahydrofuran	< 0.10 mg/kg	< 0.77 ug/l	< 0.10 mg/kg	< 0.77 ug/l	< 0.77 ug/l	< 0.77 ug/l					
Toluene	< 0.028 mg/kg	< 0.21 ug/l	< 0.028 mg/kg	< 0.21 ug/l	< 0.21 ug/l	< 0.21 ug/l					
Trichloroethylene	< 0.040 mg/kg	< 0.20 ug/l	< 0.040 mg/kg	< 0.20 ug/l	< 0.20 ug/l	< 0.20 ug/l					
Trichlorofluoromethane	< 0.032 mg/kg	< 0.17 ug/l	< 0.032 mg/kg	< 0.17 ug/l	< 0.17 ug/l	< 0.17 ug/l					
Trichlorotrifluoroethane (Freon 113)	< 0.065 mg/kg	< 0.28 ug/l	< 0.065 mg/kg	< 0.28 ug/l	< 0.28 ug/l	< 0.28 ug/l					
Vinyl chloride	< 0.023 mg/kg	< 0.087 ug/l	< 0.023 mg/kg	< 0.087 ug/l	< 0.087 ug/l	< 0.087 ug/l					
Xylene m & p	< 0.088 mg/kg	< 0.42 ug/l	< 0.088 mg/kg	< 0.42 ug/l	< 0.42 ug/l	< 0.42 ug/l					
Xylene, o-	< 0.031 mg/kg	< 0.18 ug/l	< 0.031 mg/kg	< 0.18 ug/l	< 0.18 ug/l	< 0.18 ug/l					

Table H-1
Soil/Groundwater Sampling Results - QC Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code Sample Date Sample Type Code	Lab Blank 08/31/2009 LB	Field Blank 09/01/2009 FB	Lab Blank 09/01/2009 LB	Lab Blank 09/01/2009 LB	Lab Blank 09/03/2009 LB	Lab Blank 09/03/2009 LB	Lab Blank 09/08/2009 LB	Lab Blank 09/08/2009 LB	Lab Blank 09/09/2009 LB	Lab Blank 09/09/2009 LB	Lab Blank 09/09/2009 LB	Lab Blank 09/09/2009 LB	Field Blank 09/10/2009 FB
Chemical Name													
Pesticides													
2,4,5-TP (Silvex)	< 0.050 mg/kg	< 0.48 ug/l	< 0.50 ug/l < 0.50 ug/l < 0.50 ug/l	< 0.050 mg/kg < 0.050 mg/kg < 0.050 mg/kg	< 0.50 ug/l	< 0.050 mg/kg	< 0.50 ug/l	--	< 0.50 ug/l	--	--	--	< 0.50 ug/l
2,4,5-Trichlorophenoxyacetic acid	< 0.050 mg/kg	< 0.48 ug/l	< 0.50 ug/l < 0.50 ug/l < 0.50 ug/l	< 0.050 mg/kg < 0.050 mg/kg < 0.050 mg/kg	< 0.50 ug/l	< 0.050 mg/kg	< 0.50 ug/l	--	< 0.50 ug/l	--	--	--	< 0.50 ug/l
2,4-D	< 0.050 mg/kg	< 0.48 ug/l	< 0.50 ug/l < 0.50 ug/l < 0.50 ug/l	< 0.050 mg/kg < 0.050 mg/kg < 0.050 mg/kg	< 0.50 ug/l	< 0.050 mg/kg	< 0.50 ug/l	--	< 0.50 ug/l	--	--	--	< 0.50 ug/l
2,4-DB	< 0.050 mg/kg	< 0.48 ug/l	< 0.50 ug/l < 0.50 ug/l < 0.50 ug/l	< 0.050 mg/kg < 0.050 mg/kg < 0.050 mg/kg	< 0.50 ug/l	< 0.050 mg/kg	< 0.50 ug/l	--	< 0.50 ug/l	--	--	--	< 0.50 ug/l
4,4'-DDD	< 0.025 mg/kg	< 0.014 ug/l	< 0.016 ug/l < 0.016 ug/l < 0.016 ug/l	< 0.072 mg/kg < 0.025 mg/kg < 0.025 mg/kg	--	< 0.025 mg/kg	--	< 0.025 mg/kg	< 0.016 ug/l	< 0.016 ug/l	--	--	< 0.017 ug/l
4,4'-DDE	< 0.025 mg/kg	< 0.015 ug/l	< 0.016 ug/l < 0.016 ug/l < 0.016 ug/l	< 0.072 mg/kg < 0.025 mg/kg < 0.025 mg/kg	--	< 0.025 mg/kg	--	< 0.025 mg/kg	< 0.016 ug/l	< 0.016 ug/l	--	--	< 0.017 ug/l
4,4'-DDT	< 0.025 mg/kg	< 0.018 ug/l	< 0.020 ug/l < 0.020 ug/l < 0.020 ug/l	< 0.072 mg/kg < 0.025 mg/kg < 0.025 mg/kg	--	< 0.025 mg/kg	--	< 0.025 mg/kg	< 0.020 ug/l	< 0.020 ug/l	--	--	< 0.021 ug/l
a-BHC	< 0.025 mg/kg	< 0.019 ug/l	< 0.021 ug/l < 0.021 ug/l < 0.021 ug/l	< 0.072 mg/kg < 0.025 mg/kg < 0.025 mg/kg	--	< 0.025 mg/kg	--	< 0.025 mg/kg	< 0.021 ug/l	< 0.021 ug/l	--	--	< 0.022 ug/l
Acetochlor	< 0.040 mg/kg	< 0.25 ug/l	< 0.25 ug/l < 0.25 ug/l < 0.25 ug/l	< 0.040 mg/kg < 0.040 mg/kg < 0.040 mg/kg	< 0.25 ug/l	< 0.040 mg/kg	--	--	< 0.25 ug/l	--	--	--	--
Alachlor (Lasso)	< 0.040 mg/kg	< 0.19 ug/l	< 0.19 ug/l < 0.19 ug/l < 0.19 ug/l	< 0.040 mg/kg < 0.040 mg/kg < 0.040 mg/kg	< 0.19 ug/l	< 0.040 mg/kg	--	--	< 0.19 ug/l	--	--	--	--
Aldrin	< 0.025 mg/kg	< 0.016 ug/l	< 0.018 ug/l < 0.018 ug/l < 0.018 ug/l	< 0.072 mg/kg < 0.025 mg/kg < 0.025 mg/kg	--	< 0.025 mg/kg	--	< 0.025 mg/kg	< 0.018 ug/l	< 0.018 ug/l	--	--	< 0.019 ug/l
Atrazine (Primatol)	< 0.040 mg/kg	< 0.24 ug/l	< 0.24 ug/l < 0.24 ug/l < 0.24 ug/l	< 0.040 mg/kg < 0.040 mg/kg < 0.040 mg/kg	< 0.24 ug/l	< 0.040 mg/kg	--	--	< 0.24 ug/l	--	--	--	--
b-BHC	< 0.025 mg/kg	< 0.014 ug/l	< 0.016 ug/l < 0.016 ug/l < 0.016 ug/l	< 0.072 mg/kg < 0.025 mg/kg < 0.025 mg/kg	--	< 0.025 mg/kg	--	< 0.025 mg/kg	< 0.016 ug/l	< 0.016 ug/l	--	--	< 0.017 ug/l
Bentazone	< 0.050 mg/kg	< 0.48 ug/l	< 0.50 ug/l < 0.50 ug/l < 0.50 ug/l	< 0.050 mg/kg < 0.050 mg/kg < 0.050 mg/kg	< 0.50 ug/l	< 0.050 mg/kg	< 0.50 ug/l	--	< 0.50 ug/l	--	--	--	< 0.50 ug/l

Table H-1
Soil/Groundwater Sampling Results - QC Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code Sample Date	Lab Blank 08/31/2009	Field Blank 09/01/2009	Lab Blank 09/01/2009	Lab Blank 09/01/2009	Lab Blank 09/03/2009	Lab Blank 09/03/2009	Lab Blank 09/08/2009	Lab Blank 09/08/2009	Lab Blank 09/09/2009	Lab Blank 09/09/2009	Lab Blank 09/09/2009	Lab Blank 09/09/2009	Field Blank 09/10/2009
Sample Type Code	LB	FB	LB	LB	LB	LB	LB	LB	LB	LB	LB	LB	FB
Chemical Name													
Chlordane (alpha+gamma)	< 0.025 mg/kg	< 0.014 ug/l	< 0.016 ug/l < 0.016 ug/l < 0.025 mg/kg	< 0.072 mg/kg < 0.025 mg/kg < 0.025 mg/kg	--	< 0.025 mg/kg	--	--	< 0.016 ug/l	--	--	--	--
Chlordane, alpha	--	--	--	--	--	--	--	< 0.025 mg/kg	--	< 0.016 ug/l	--	--	< 0.017 ug/l
Chlordane, gamma	--	--	--	--	--	--	--	< 0.025 mg/kg	--	< 0.042 ug/l	--	--	< 0.044 ug/l
Chlorpyrifos (Lorsban)	< 0.040 mg/kg	< 0.34 ug/l	< 0.34 ug/l < 0.34 ug/l < 0.040 mg/kg	< 0.040 mg/kg < 0.040 mg/kg < 0.040 mg/kg	< 0.34 ug/l	< 0.040 mg/kg	--	--	< 0.34 ug/l	--	--	--	--
Cyanazine (Bladex)	< 0.040 mg/kg	< 0.48 ug/l	< 0.48 ug/l < 0.48 ug/l < 0.040 mg/kg	< 0.040 mg/kg < 0.040 mg/kg < 0.040 mg/kg	< 0.48 ug/l	< 0.040 mg/kg	--	--	< 0.48 ug/l	--	--	--	--
d-BHC	< 0.025 mg/kg	< 0.013 ug/l	< 0.014 ug/l < 0.014 ug/l < 0.025 mg/kg	< 0.072 mg/kg < 0.025 mg/kg < 0.025 mg/kg	--	< 0.025 mg/kg	--	< 0.025 mg/kg	< 0.014 ug/l	< 0.014 ug/l	--	--	< 0.015 ug/l
Deisopropyl atrazine	< 0.040 mg/kg	< 0.26 ug/l	< 0.26 ug/l < 0.26 ug/l < 0.040 mg/kg	< 0.040 mg/kg < 0.040 mg/kg < 0.040 mg/kg	< 0.26 ug/l	< 0.040 mg/kg	--	--	< 0.26 ug/l	--	--	--	--
Desethylatrazine	< 0.040 mg/kg	< 0.29 ug/l	< 0.29 ug/l < 0.29 ug/l < 0.040 mg/kg	< 0.040 mg/kg < 0.040 mg/kg < 0.040 mg/kg	< 0.29 ug/l	< 0.040 mg/kg	--	--	< 0.29 ug/l	--	--	--	--
Dicamba	< 0.050 mg/kg	< 0.48 ug/l	< 0.50 ug/l < 0.50 ug/l < 0.050 mg/kg	< 0.050 mg/kg < 0.050 mg/kg < 0.050 mg/kg	< 0.50 ug/l	< 0.050 mg/kg	< 0.50 ug/l	--	< 0.50 ug/l	--	--	--	< 0.50 ug/l
Dieldrin	< 0.025 mg/kg	< 0.022 ug/l	< 0.024 ug/l < 0.024 ug/l < 0.025 mg/kg	< 0.072 mg/kg < 0.025 mg/kg < 0.025 mg/kg	--	< 0.025 mg/kg	--	< 0.025 mg/kg	< 0.024 ug/l	< 0.024 ug/l	--	--	< 0.025 ug/l
Dimethenamid	< 0.040 mg/kg	< 0.24 ug/l	< 0.24 ug/l < 0.24 ug/l < 0.040 mg/kg	< 0.040 mg/kg < 0.040 mg/kg < 0.040 mg/kg	< 0.24 ug/l	< 0.040 mg/kg	--	--	< 0.24 ug/l	--	--	--	--
Dinoseb (DNBP)	< 0.050 mg/kg	< 0.95 ug/l	< 1.0 ug/l < 1.0 ug/l < 0.050 mg/kg	< 0.050 mg/kg < 0.050 mg/kg < 0.050 mg/kg	< 1.0 ug/l	< 0.050 mg/kg	< 1.0 ug/l	--	< 0.50 ug/l	--	--	--	< 0.50 ug/l
Endosulfan I	< 0.025 mg/kg	< 0.019 ug/l	< 0.021 ug/l < 0.021 ug/l < 0.025 mg/kg	< 0.072 mg/kg < 0.025 mg/kg < 0.025 mg/kg	--	< 0.025 mg/kg	--	< 0.025 mg/kg	< 0.021 ug/l	< 0.021 ug/l	--	--	< 0.022 ug/l
Endosulfan II	< 0.025 mg/kg	< 0.017 ug/l	< 0.019 ug/l < 0.019 ug/l < 0.025 mg/kg	< 0.072 mg/kg < 0.025 mg/kg < 0.025 mg/kg	--	< 0.025 mg/kg	--	< 0.025 mg/kg	< 0.019 ug/l	< 0.019 ug/l	--	--	< 0.020 ug/l
Endosulfan Sulfate	< 0.025 mg/kg	< 0.018 ug/l	< 0.019 ug/l < 0.019 ug/l < 0.025 mg/kg	< 0.072 mg/kg < 0.025 mg/kg < 0.025 mg/kg	--	< 0.025 mg/kg	--	< 0.025 mg/kg	< 0.019 ug/l	< 0.019 ug/l	--	--	< 0.020 ug/l
Endrin	< 0.025 mg/kg	< 0.018 ug/l	< 0.020 ug/l < 0.020 ug/l < 0.025 mg/kg	< 0.072 mg/kg < 0.025 mg/kg < 0.025 mg/kg	--	< 0.025 mg/kg	--	< 0.025 mg/kg	< 0.020 ug/l	< 0.020 ug/l	--	--	< 0.021 ug/l

Table H-1
Soil/Groundwater Sampling Results - QC Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code Sample Date Sample Type Code	Lab Blank 08/31/2009 LB	Field Blank 09/01/2009 FB	Lab Blank 09/01/2009 LB	Lab Blank 09/01/2009 LB	Lab Blank 09/03/2009 LB	Lab Blank 09/03/2009 LB	Lab Blank 09/08/2009 LB	Lab Blank 09/08/2009 LB	Lab Blank 09/09/2009 LB	Lab Blank 09/09/2009 LB	Lab Blank 09/09/2009 LB	Lab Blank 09/09/2009 LB	Field Blank 09/10/2009 FB
Chemical Name													
Endrin Aldehyde	< 0.025 mg/kg	< 0.036 ug/l	< 0.040 ug/l < 0.040 ug/l	< 0.072 mg/kg < 0.025 mg/kg < 0.025 mg/kg	--	< 0.025 mg/kg	--	< 0.025 mg/kg	< 0.040 ug/l	< 0.040 ug/l	--	< 0.042 ug/l	
Endrin Ketone	< 0.025 mg/kg	< 0.017 ug/l	< 0.019 ug/l < 0.019 ug/l	< 0.072 mg/kg < 0.025 mg/kg < 0.025 mg/kg	--	< 0.025 mg/kg	--	< 0.025 mg/kg	< 0.019 ug/l	< 0.019 ug/l	--	< 0.020 ug/l	
EPTC (Eradicane)	< 0.040 mg/kg	< 0.22 ug/l	< 0.22 ug/l < 0.22 ug/l	< 0.040 mg/kg < 0.040 mg/kg < 0.040 mg/kg	< 0.22 ug/l	< 0.040 mg/kg	--	--	< 0.22 ug/l	--	--	--	
Ethalfluralin (Sonalan)	< 0.040 mg/kg	< 0.47 ug/l	< 0.47 ug/l < 0.47 ug/l	< 0.040 mg/kg < 0.040 mg/kg < 0.040 mg/kg	< 0.47 ug/l	< 0.040 mg/kg	--	--	< 0.47 ug/l	--	--	--	
Fonofos (Dyphonate)	< 0.040 mg/kg	< 0.30 ug/l	< 0.30 ug/l < 0.30 ug/l	< 0.040 mg/kg < 0.040 mg/kg < 0.040 mg/kg	< 0.30 ug/l	< 0.040 mg/kg	--	--	< 0.30 ug/l	--	--	--	
g-BHC (Lindane)	< 0.025 mg/kg	< 0.018 ug/l	< 0.020 ug/l < 0.020 ug/l	< 0.072 mg/kg < 0.025 mg/kg < 0.025 mg/kg	--	< 0.025 mg/kg	--	< 0.025 mg/kg	< 0.020 ug/l	< 0.020 ug/l	--	< 0.021 ug/l	
g-Chlordane	< 0.025 mg/kg	< 0.038 ug/l	< 0.042 ug/l < 0.042 ug/l	< 0.072 mg/kg < 0.025 mg/kg < 0.025 mg/kg	--	< 0.025 mg/kg	--	--	< 0.042 ug/l	--	--	--	
Heptachlor	< 0.025 mg/kg	< 0.016 ug/l	< 0.018 ug/l < 0.018 ug/l	< 0.072 mg/kg < 0.025 mg/kg < 0.025 mg/kg	--	< 0.025 mg/kg	--	< 0.025 mg/kg	< 0.018 ug/l	< 0.018 ug/l	--	< 0.019 ug/l	
Heptachlor Epoxide	< 0.025 mg/kg	< 0.035 ug/l	< 0.038 ug/l < 0.038 ug/l	< 0.072 mg/kg < 0.025 mg/kg < 0.025 mg/kg	--	< 0.025 mg/kg	--	< 0.025 mg/kg	< 0.038 ug/l	< 0.038 ug/l	--	< 0.040 ug/l	
MCPA	< 0.050 mg/kg	< 0.29 ug/l	< 0.30 ug/l < 0.30 ug/l	< 0.050 mg/kg < 0.050 mg/kg < 0.050 mg/kg	< 0.30 ug/l	< 0.050 mg/kg	< 0.30 ug/l	--	< 0.30 ug/l	--	--	< 0.30 ug/l	
Methoxychlor	< 0.025 mg/kg	< 0.024 ug/l	< 0.026 ug/l < 0.026 ug/l	< 0.072 mg/kg < 0.025 mg/kg < 0.025 mg/kg	--	< 0.025 mg/kg	--	< 0.025 mg/kg	< 0.026 ug/l	< 0.026 ug/l	--	< 0.028 ug/l	
Metolachlor (Dual)	< 0.040 mg/kg	< 0.28 ug/l	< 0.28 ug/l < 0.28 ug/l	< 0.040 mg/kg < 0.040 mg/kg < 0.040 mg/kg	< 0.28 ug/l	< 0.040 mg/kg	--	--	< 0.28 ug/l	--	--	--	
Metribuzin	< 0.040 mg/kg	< 0.35 ug/l	< 0.35 ug/l < 0.35 ug/l	< 0.040 mg/kg < 0.040 mg/kg < 0.040 mg/kg	< 0.35 ug/l	< 0.040 mg/kg	--	--	< 0.35 ug/l	--	--	--	
Pendimethalin (Prowl)	< 0.040 mg/kg	< 0.25 ug/l	< 0.25 ug/l < 0.25 ug/l	< 0.040 mg/kg < 0.040 mg/kg < 0.040 mg/kg	< 0.25 ug/l	< 0.040 mg/kg	--	--	< 0.25 ug/l	--	--	--	

Table H-1
Soil/Groundwater Sampling Results - QC Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code Sample Date Sample Type Code	Lab Blank 08/31/2009 LB	Field Blank 09/01/2009 FB	Lab Blank 09/01/2009 LB	Lab Blank 09/01/2009 LB	Lab Blank 09/03/2009 LB	Lab Blank 09/03/2009 LB	Lab Blank 09/08/2009 LB	Lab Blank 09/08/2009 LB	Lab Blank 09/09/2009 LB	Lab Blank 09/09/2009 LB	Lab Blank 09/09/2009 LB	Lab Blank 09/09/2009 LB	Field Blank 09/10/2009 FB
Chemical Name													
Pentachlorophenol	< 0.050 mg/kg	< 0.48 ug/l	< 0.50 ug/l	< 0.050 mg/kg < 0.050 mg/kg < 0.050 mg/kg	< 0.50 ug/l	< 0.050 mg/kg	< 0.50 ug/l	--	< 0.50 ug/l	--	--	--	< 0.50 ug/l
Phorate (Thimet)	< 0.040 mg/kg	< 0.58 ug/l	< 0.58 ug/l < 0.58 ug/l < 0.40 mg/kg	< 0.40 mg/kg < 0.40 mg/kg < 0.40 mg/kg	< 0.58 ug/l	< 0.040 mg/kg	--	--	< 0.58 ug/l	--	--	--	--
Picloram	< 0.050 mg/kg	< 0.48 ug/l	< 0.50 ug/l < 0.50 ug/l	< 0.050 mg/kg < 0.050 mg/kg < 0.050 mg/kg	< 0.50 ug/l	< 0.050 mg/kg	< 0.50 ug/l	--	< 0.50 ug/l	--	--	--	< 0.50 ug/l
Prometon (Pramitol)	< 0.040 mg/kg	< 0.29 ug/l	< 0.29 ug/l < 0.29 ug/l	< 0.40 mg/kg < 0.40 mg/kg < 0.40 mg/kg	< 0.29 ug/l	< 0.040 mg/kg	--	--	< 0.29 ug/l	--	--	--	--
Propachlor	< 0.040 mg/kg	< 0.14 ug/l	< 0.14 ug/l < 0.14 ug/l	< 0.40 mg/kg < 0.40 mg/kg < 0.40 mg/kg	< 0.14 ug/l	< 0.040 mg/kg	--	--	< 0.14 ug/l	--	--	--	--
Propazine (Milogard)	< 0.040 mg/kg	< 0.21 ug/l	< 0.21 ug/l < 0.21 ug/l	< 0.40 mg/kg < 0.40 mg/kg < 0.40 mg/kg	< 0.21 ug/l	< 0.040 mg/kg	--	--	< 0.21 ug/l	--	--	--	--
Simazine (Princep)	< 0.040 mg/kg	< 0.32 ug/l	< 0.32 ug/l < 0.32 ug/l	< 0.40 mg/kg < 0.40 mg/kg < 0.40 mg/kg	< 0.32 ug/l	< 0.040 mg/kg	--	--	< 0.32 ug/l	--	--	--	--
Terbufos (Counter)	< 0.040 mg/kg	< 0.54 ug/l	< 0.54 ug/l < 0.54 ug/l	< 0.40 mg/kg < 0.40 mg/kg < 0.40 mg/kg	< 0.54 ug/l	< 0.040 mg/kg	--	--	< 0.54 ug/l	--	--	--	--
Toxaphene	< 0.50 mg/kg	< 0.91 ug/l	< 1.0 ug/l < 1.0 ug/l	< 1.4 mg/kg < 0.50 mg/kg < 0.50 mg/kg	--	< 0.50 mg/kg	--	< 0.50 mg/kg	< 1.0 ug/l	< 1.0 ug/l	--	--	< 1.1 ug/l
Triallate (Far-Go)	< 0.040 mg/kg	< 0.34 ug/l	< 0.34 ug/l < 0.34 ug/l	< 0.40 mg/kg < 0.40 mg/kg < 0.40 mg/kg	< 0.34 ug/l	< 0.040 mg/kg	--	--	< 0.34 ug/l	--	--	--	--
Triclopyr	< 0.050 mg/kg	< 0.48 ug/l	< 0.50 ug/l < 0.50 ug/l	< 0.050 mg/kg < 0.050 mg/kg < 0.050 mg/kg	< 0.50 ug/l	< 0.050 mg/kg	--	< 0.50 ug/l	--	--	--	--	< 0.50 ug/l
Trifluralin (Treflan)	< 0.040 mg/kg	< 0.21 ug/l	< 0.21 ug/l < 0.21 ug/l	< 0.40 mg/kg < 0.40 mg/kg < 0.40 mg/kg	< 0.21 ug/l	< 0.040 mg/kg	--	--	< 0.21 ug/l	--	--	--	--
Acetochlor	--	--	--	--	--	--	--	--	--	--	--	--	< 0.25 ug/l < 0.26 ug/l
Alachlor (Lasso)	--	--	--	--	--	--	--	--	--	--	--	--	< 0.19 ug/l < 0.19 ug/l
Atrazine (Pramatol)	--	--	--	--	--	--	--	--	--	--	--	--	< 0.24 ug/l < 0.24 ug/l
Chlorpyrifos (Lorsban)	--	--	--	--	--	--	--	--	--	--	--	--	< 0.34 ug/l < 0.35 ug/l
Cyanazine (Bladex)	--	--	--	--	--	--	--	--	--	--	--	--	< 0.48 ug/l < 0.50 ug/l
Deisopropyl atrazine	--	--	--	--	--	--	--	--	--	--	--	--	< 0.26 ug/l < 0.26 ug/l
Desethylatrazine	--	--	--	--	--	--	--	--	--	--	--	--	< 0.29 ug/l < 0.30 ug/l
Dimethenamid	--	--	--	--	--	--	--	--	--	--	--	--	< 0.24 ug/l < 0.24 ug/l

Table H-1
Soil/Groundwater Sampling Results - QC Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code	Lab Blank 08/31/2009	Field Blank 09/01/2009	Lab Blank 09/01/2009	Lab Blank 09/01/2009	Lab Blank 09/03/2009	Lab Blank 09/03/2009	Lab Blank 09/08/2009	Lab Blank 09/08/2009	Lab Blank 09/09/2009	Lab Blank 09/09/2009	Lab Blank 09/09/2009	Lab Blank 09/09/2009	Field Blank 09/10/2009
Sample Date	LB	FB	LB	FB									
Sample Type Code													
Chemical Name													
EPTC (Eradicane)	--	--	--	--	--	--	--	--	--	--	< 0.22 ug/l	< 0.22 ug/l	
Ethafluralin (Sonalan)	--	--	--	--	--	--	--	--	--	--	< 0.47 ug/l	< 0.48 ug/l	
Fonofos (Dyphonate)	--	--	--	--	--	--	--	--	--	--	< 0.30 ug/l	< 0.30 ug/l	
Metolachlor (Dual)	--	--	--	--	--	--	--	--	--	--	< 0.28 ug/l	< 0.28 ug/l	
Metribuzin	--	--	--	--	--	--	--	--	--	--	< 0.35 ug/l	< 0.36 ug/l	
Pendimethalin (Prowl)	--	--	--	--	--	--	--	--	--	--	< 0.25 ug/l	< 0.26 ug/l	
Phorate (Thimet)	--	--	--	--	--	--	--	--	--	--	< 0.58 ug/l	< 0.60 ug/l	
Prometon (Pramitol)	--	--	--	--	--	--	--	--	--	--	< 0.29 ug/l	< 0.30 ug/l	
Propachlor	--	--	--	--	--	--	--	--	--	--	< 0.14 ug/l	< 0.14 ug/l	
Propazine (Milogard)	--	--	--	--	--	--	--	--	--	--	< 0.21 ug/l	< 0.21 ug/l	
Simazine (Princep)	--	--	--	--	--	--	--	--	--	--	< 0.32 ug/l	< 0.33 ug/l	
Terbufos (Counter)	--	--	--	--	--	--	--	--	--	--	< 0.54 ug/l	< 0.56 ug/l	
Triallate (Far-Go)	--	--	--	--	--	--	--	--	--	--	< 0.34 ug/l	< 0.35 ug/l	
Trifluralin (Treflan)	--	--	--	--	--	--	--	--	--	--	< 0.21 ug/l	< 0.22 ug/l	
PCBs													
Aroclor 1016	< 0.20 mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1221	< 0.20 mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1232	< 0.20 mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1242	< 0.20 mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1248	< 0.20 mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1254	< 0.20 mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1260	< 0.20 mg/kg	--	--	--	--	--	--	--	--	--	--	--	--

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UMore Mining Area
Dakota County, Minnesota

Sys Loc Code Sample Date Sample Type Code	Field Blank 09/11/2009 FB	Field Blank 09/11/2009 FB	Lab Blank 09/11/2009 LB	Field Blank 09/11/2009 FB	Field Blank 09/11/2009 FB	Lab Blank 09/13/2009 LB	Lab Blank 09/14/2009 LB	Lab Blank 09/14/2009 LB	Field Blank 09/15/2009 FB	Lab Blank 09/15/2009 LB	Lab Blank 09/15/2009 LB	Lab Blank 09/15/2009 LB	Lab Blank 09/15/2009 LB
Chemical Name													
Pesticides													
2,4,5-TP (Silvex)	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	--	< 0.050 mg/kg	--	--	--	--	--	< 0.50 ug/l
2,4,5-Trichlorophenoxyacetic acid	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	--	< 0.050 mg/kg	--	--	--	--	--	< 0.50 ug/l
2,4-D	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	--	< 0.050 mg/kg	--	--	--	--	--	< 0.50 ug/l
2,4-DB	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	--	< 0.050 mg/kg	--	--	--	--	--	< 0.50 ug/l
4,4'-DDD	< 0.016 ug/l	< 0.017 ug/l	< 0.016 ug/l	< 0.017 ug/l	< 0.016 ug/l	--	--	< 0.016 ug/l	< 0.015 ug/l	--	< 0.070 mg/kg	--	
4,4'-DDE	< 0.016 ug/l	< 0.017 ug/l	< 0.016 ug/l	< 0.017 ug/l	< 0.016 ug/l	--	--	< 0.016 ug/l	< 0.015 ug/l	--	< 0.070 mg/kg	--	
4,4'-DDT	< 0.020 ug/l	< 0.021 ug/l	< 0.020 ug/l	< 0.021 ug/l	< 0.020 ug/l	--	--	< 0.020 ug/l	< 0.019 ug/l	--	< 0.070 mg/kg	--	
a-BHC	< 0.021 ug/l	< 0.022 ug/l	< 0.021 ug/l	< 0.022 ug/l	< 0.021 ug/l	--	--	< 0.021 ug/l	< 0.020 ug/l	--	< 0.070 mg/kg	--	
Acetochlor	< 0.25 ug/l	< 0.26 ug/l	< 0.25 ug/l	--	--	--	--	--	--	--	--	--	--
Alachlor (Lasso)	< 0.19 ug/l	< 0.20 ug/l	< 0.19 ug/l	--	--	--	--	--	--	--	--	--	--
Aldrin	< 0.018 ug/l	< 0.019 ug/l	< 0.018 ug/l	< 0.019 ug/l	< 0.018 ug/l	--	--	< 0.018 ug/l	< 0.017 ug/l	--	< 0.070 mg/kg	--	
Atrazine (Primatol)	< 0.24 ug/l	< 0.25 ug/l	< 0.24 ug/l	--	--	--	--	--	--	--	--	--	--
b-BHC	< 0.016 ug/l	< 0.017 ug/l	< 0.016 ug/l	< 0.017 ug/l	< 0.016 ug/l	--	--	< 0.016 ug/l	< 0.015 ug/l	--	< 0.070 mg/kg	--	
Bentazone	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	--	< 0.050 mg/kg	--	--	--	--	--	< 0.50 ug/l

Table H-1
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SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code Sample Date Sample Type Code	Field Blank 09/11/2009 FB	Field Blank 09/11/2009 FB	Lab Blank 09/11/2009 LB	Field Blank 09/11/2009 FB	Field Blank 09/11/2009 FB	Lab Blank 09/13/2009 LB	Lab Blank 09/14/2009 LB	Lab Blank 09/14/2009 LB	Field Blank 09/15/2009 FB	Lab Blank 09/15/2009 LB	Lab Blank 09/15/2009 LB	Lab Blank 09/15/2009 LB	Lab Blank 09/15/2009 LB
Chemical Name													
Chlordane (alpha+gamma)	< 0.016 ug/l	< 0.017 ug/l	< 0.016 ug/l	--	--	--	--	--	--	--	--	--	--
Chlordane, alpha	--	--	--	< 0.017 ug/l	< 0.016 ug/l	--	--	< 0.016 ug/l	< 0.015 ug/l	--	< 0.070 mg/kg	--	
Chlordane, gamma	--	--	--	< 0.045 ug/l	< 0.044 ug/l	--	--	< 0.042 ug/l	< 0.040 ug/l	--	< 0.070 mg/kg	--	
Chlorpyrifos (Lorsban)	< 0.34 ug/l	< 0.35 ug/l	< 0.34 ug/l	--	--	--	--	--	--	--	--	--	--
Cyanazine (Bladex)	< 0.48 ug/l	< 0.51 ug/l	< 0.48 ug/l	--	--	--	--	--	--	--	--	--	--
d-BHC	< 0.014 ug/l	< 0.015 ug/l	< 0.014 ug/l	< 0.015 ug/l	< 0.014 ug/l	--	--	< 0.014 ug/l	< 0.013 ug/l	--	< 0.070 mg/kg	--	
Deisopropyl atrazine	< 0.26 ug/l	< 0.27 ug/l	< 0.26 ug/l	--	--	--	--	--	--	--	--	--	--
Desethylatrazine	< 0.29 ug/l	< 0.31 ug/l	< 0.29 ug/l	--	--	--	--	--	--	--	--	--	--
Dicamba	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	--	< 0.050 mg/kg	--	--	--	--	--	< 0.50 ug/l
Dieldrin	< 0.025 ug/l	< 0.025 ug/l	< 0.024 ug/l	< 0.025 ug/l	< 0.025 ug/l	--	--	< 0.024 ug/l	< 0.023 ug/l	--	< 0.070 mg/kg	--	
Dimethenamid	< 0.24 ug/l	< 0.25 ug/l	< 0.24 ug/l	--	--	--	--	--	--	--	--	--	--
Dinoseb (DNBP)	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	--	< 0.050 mg/kg	--	--	--	--	--	< 0.50 ug/l
Endosulfan I	< 0.022 ug/l	< 0.023 ug/l	< 0.021 ug/l	< 0.023 ug/l	< 0.022 ug/l	--	--	< 0.021 ug/l	< 0.020 ug/l	--	< 0.070 mg/kg	--	
Endosulfan II	< 0.020 ug/l	< 0.020 ug/l	< 0.019 ug/l	< 0.020 ug/l	< 0.020 ug/l	--	--	< 0.019 ug/l	< 0.018 ug/l	--	< 0.070 mg/kg	--	
Endosulfan Sulfate	< 0.020 ug/l	< 0.021 ug/l	< 0.019 ug/l	< 0.021 ug/l	< 0.020 ug/l	--	--	< 0.019 ug/l	< 0.018 ug/l	--	< 0.070 mg/kg	--	
Endrin	< 0.021 ug/l	< 0.021 ug/l	< 0.020 ug/l	< 0.021 ug/l	< 0.021 ug/l	--	--	< 0.020 ug/l	< 0.019 ug/l	--	< 0.070 mg/kg	--	

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Chemical Name													
Endrin Aldehyde	< 0.041 ug/l	< 0.043 ug/l	< 0.040 ug/l	< 0.043 ug/l	< 0.041 ug/l	--	--	< 0.040 ug/l	< 0.038 ug/l	--	< 0.070 mg/kg	--	
Endrin Ketone	< 0.019 ug/l	< 0.020 ug/l	< 0.019 ug/l	< 0.020 ug/l	< 0.019 ug/l	--	--	< 0.019 ug/l	< 0.018 ug/l	--	< 0.070 mg/kg	--	
EPTC (Eradicane)	< 0.22 ug/l	< 0.23 ug/l	< 0.22 ug/l	--	--	--	--	--	--	--	--	--	
Ethalfluralin (Sonalan)	< 0.47 ug/l	< 0.49 ug/l	< 0.47 ug/l	--	--	--	--	--	--	--	--	--	
Fonofos (Dyphonate)	< 0.30 ug/l	< 0.31 ug/l	< 0.30 ug/l	--	--	--	--	--	--	--	--	--	
g-BHC (Lindane)	< 0.021 ug/l	< 0.021 ug/l	< 0.020 ug/l	< 0.021 ug/l	< 0.021 ug/l	--	--	< 0.020 ug/l	< 0.019 ug/l	--	< 0.070 mg/kg	--	
g-Chlordane	< 0.044 ug/l	< 0.045 ug/l	< 0.042 ug/l	--	--	--	--	--	--	--	--	--	
Heptachlor	< 0.018 ug/l	< 0.019 ug/l	< 0.018 ug/l	< 0.019 ug/l	< 0.018 ug/l	--	--	< 0.018 ug/l	< 0.017 ug/l	--	< 0.070 mg/kg	--	
Heptachlor Epoxide	< 0.039 ug/l	< 0.041 ug/l	< 0.038 ug/l	< 0.041 ug/l	< 0.039 ug/l	--	--	< 0.038 ug/l	< 0.036 ug/l	--	< 0.070 mg/kg	--	
MCPA	< 0.30 ug/l	< 0.30 ug/l	< 0.30 ug/l	< 0.30 ug/l	< 0.30 ug/l	--	< 0.050 mg/kg	--	--	--	--	< 0.30 ug/l	
Methoxychlor	< 0.027 ug/l	< 0.028 ug/l	< 0.026 ug/l	< 0.028 ug/l	< 0.027 ug/l	--	--	< 0.026 ug/l	< 0.025 ug/l	--	< 0.070 mg/kg	--	
Metolachlor (Dual)	< 0.28 ug/l	< 0.29 ug/l	< 0.28 ug/l	--	--	--	--	--	--	--	--	--	
Metribuzin	< 0.35 ug/l	< 0.37 ug/l	< 0.35 ug/l	--	--	--	--	--	--	--	--	--	
Pendimethalin (Prowl)	< 0.25 ug/l	< 0.26 ug/l	< 0.25 ug/l	--	--	--	--	--	--	--	--	--	

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Chemical Name													
Pentachlorophenol	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	--	< 0.050 mg/kg	--	--	--	--	--	< 0.50 ug/l
Phorate (Thimet)	< 0.58 ug/l	< 0.62 ug/l	< 0.58 ug/l	--	--	--	--	--	--	--	--	--	--
Picloram	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	--	< 0.050 mg/kg	--	--	--	--	--	< 0.50 ug/l
Prometon (Pramitol)	< 0.29 ug/l	< 0.31 ug/l	< 0.29 ug/l	--	--	--	--	--	--	--	--	--	--
Propachlor	< 0.14 ug/l	< 0.15 ug/l	< 0.14 ug/l	--	--	--	--	--	--	--	--	--	--
Propazine (Milogard)	< 0.21 ug/l	< 0.22 ug/l	< 0.21 ug/l	--	--	--	--	--	--	--	--	--	--
Simazine (Princep)	< 0.32 ug/l	< 0.33 ug/l	< 0.32 ug/l	--	--	--	--	--	--	--	--	--	--
Terbufos (Counter)	< 0.54 ug/l	< 0.57 ug/l	< 0.54 ug/l	--	--	--	--	--	--	--	--	--	--
Toxaphene	< 1.0 ug/l	< 1.1 ug/l	< 1.0 ug/l	< 1.1 ug/l	< 1.0 ug/l	--	--	< 1.0 ug/l	< 0.95 ug/l	--	< 1.4 mg/kg	--	--
Triallate (Far-Go)	< 0.34 ug/l	< 0.35 ug/l	< 0.34 ug/l	--	--	--	--	--	--	--	--	--	--
Triclopyr	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	< 0.50 ug/l	--	< 0.050 mg/kg	--	--	--	--	--	< 0.50 ug/l
Trifluralin (Treflan)	< 0.21 ug/l	< 0.23 ug/l	< 0.21 ug/l	--	--	--	--	--	--	--	--	--	--
Acetochlor	--	--	--	< 0.26 ug/l	< 0.25 ug/l	< 0.040 mg/kg	--	--	< 0.24 ug/l	< 0.25 ug/l	--	--	--
Alachlor (Lasso)	--	--	--	< 0.20 ug/l	< 0.19 ug/l	< 0.040 mg/kg	--	--	< 0.18 ug/l	< 0.19 ug/l	--	--	--
Atrazine (Primato)	--	--	--	< 0.25 ug/l	< 0.24 ug/l	< 0.040 mg/kg	--	--	< 0.23 ug/l	< 0.24 ug/l	--	--	--
Chlorpyrifos (Lorsban)	--	--	--	< 0.35 ug/l	< 0.34 ug/l	< 0.040 mg/kg	--	--	< 0.32 ug/l	< 0.34 ug/l	--	--	--
Cyanazine (Bladex)	--	--	--	< 0.51 ug/l	< 0.48 ug/l	< 0.040 mg/kg	--	--	< 0.46 ug/l	< 0.48 ug/l	--	--	--
Desisopropyl atrazine	--	--	--	< 0.27 ug/l	< 0.26 ug/l	< 0.040 mg/kg	--	--	< 0.24 ug/l	< 0.26 ug/l	--	--	--
Desethylatrazine	--	--	--	< 0.31 ug/l	< 0.29 ug/l	< 0.040 mg/kg	--	--	< 0.28 ug/l	< 0.29 ug/l	--	--	--
Dimethenamid	--	--	--	< 0.25 ug/l	< 0.24 ug/l	< 0.040 mg/kg	--	--	< 0.22 ug/l	< 0.24 ug/l	--	--	--

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UMore Mining Area
Dakota County, Minnesota

Sys Loc Code Sample Date Sample Type Code	Field Blank 09/11/2009 FB	Field Blank 09/11/2009 FB	Lab Blank 09/11/2009 LB	Field Blank 09/11/2009 FB	Field Blank 09/11/2009 FB	Lab Blank 09/13/2009 LB	Lab Blank 09/14/2009 LB	Lab Blank 09/14/2009 LB	Field Blank 09/15/2009 FB	Lab Blank 09/15/2009 LB	Lab Blank 09/15/2009 LB	Lab Blank 09/15/2009 LB	
Chemical Name													
EPTC (Eradicane)	--	--	--	< 0.23 ug/l	< 0.22 ug/l	< 0.040 mg/kg	--	--	< 0.20 ug/l	< 0.22 ug/l	--	--	
Ethalfluralin (Sonalan)	--	--	--	< 0.49 ug/l	< 0.47 ug/l	< 0.040 mg/kg	--	--	< 0.44 ug/l	< 0.47 ug/l	--	--	
Fonofos (Dyphonate)	--	--	--	< 0.31 ug/l	< 0.30 ug/l	< 0.040 mg/kg	--	--	< 0.28 ug/l	< 0.30 ug/l	--	--	
Metolachlor (Dual)	--	--	--	< 0.29 ug/l	< 0.28 ug/l	< 0.040 mg/kg	--	--	< 0.26 ug/l	< 0.28 ug/l	--	--	
Metribuzin	--	--	--	< 0.37 ug/l	< 0.35 ug/l	< 0.040 mg/kg	--	--	< 0.33 ug/l	< 0.35 ug/l	--	--	
Pendimethalin (Prowl)	--	--	--	< 0.26 ug/l	< 0.25 ug/l	< 0.040 mg/kg	--	--	< 0.24 ug/l	< 0.25 ug/l	--	--	
Phorate (Thimet)	--	--	--	< 0.62 ug/l	< 0.58 ug/l	< 0.040 mg/kg	--	--	< 0.56 ug/l	< 0.58 ug/l	--	--	
Prometon (Pramitol)	--	--	--	< 0.31 ug/l	< 0.29 ug/l	< 0.040 mg/kg	--	--	< 0.28 ug/l	< 0.29 ug/l	--	--	
Propachlor	--	--	--	< 0.15 ug/l	< 0.14 ug/l	< 0.040 mg/kg	--	--	< 0.13 ug/l	< 0.14 ug/l	--	--	
Propazine (Milogard)	--	--	--	< 0.22 ug/l	< 0.21 ug/l	< 0.040 mg/kg	--	--	< 0.20 ug/l	< 0.21 ug/l	--	--	
Simazine (Princep)	--	--	--	< 0.33 ug/l	< 0.32 ug/l	< 0.040 mg/kg	--	--	< 0.30 ug/l	< 0.32 ug/l	--	--	
Terbufos (Counter)	--	--	--	< 0.57 ug/l	< 0.54 ug/l	< 0.040 mg/kg	--	--	< 0.52 ug/l	< 0.54 ug/l	--	--	
Triallate (Far-Go)	--	--	--	< 0.35 ug/l	< 0.34 ug/l	< 0.040 mg/kg	--	--	< 0.32 ug/l	< 0.34 ug/l	--	--	
Trifluralin (Treflan)	--	--	--	< 0.23 ug/l	< 0.21 ug/l	< 0.040 mg/kg	--	--	< 0.20 ug/l	< 0.21 ug/l	--	--	
PCBs													
Aroclor 1016	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1221	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1232	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1242	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1248	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1254	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1260	--	--	--	--	--	--	--	--	--	--	--	--	--

Table H-1
Soil/Groundwater Sampling Results - QC Data
SSI/RI Report SOC_s 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code Sample Date Sample Type Code	Lab Blank 09/15/2009 LB	Field Blank 09/17/2009 FB	Lab Blank 09/21/2009 LB	Lab Blank 09/21/2009 LB	Lab Blank 09/22/2009 LB	Lab Blank 09/22/2009 LB	Lab Blank 09/25/2009 LB	Lab Blank 09/29/2009 LB	Field Blank 09/29/2009 FB				
Chemical Name													
Pesticides													
2,4,5-TP (Silvex)	--	--	--	< 0.050 mg/kg	--	--	--	--	--	--	--	--	< 0.50 ug/l
2,4,5-Trichlorophenoxyacetic acid	--	--	--	< 0.050 mg/kg	--	--	--	--	--	--	--	--	< 0.50 ug/l
2,4-D	--	--	--	< 0.050 mg/kg	--	--	--	--	--	--	--	--	< 0.50 ug/l
2,4-DB	--	--	--	< 0.050 mg/kg	--	--	--	--	--	--	--	--	< 0.50 ug/l
4,4'-DDD	--	--	< 0.016 ug/l	--	--	--	--	< 0.024 mg/kg	< 0.025 mg/kg	--	--	--	< 0.016 ug/l
4,4'-DDE	--	--	< 0.016 ug/l	--	--	--	--	< 0.024 mg/kg	< 0.025 mg/kg	--	--	--	< 0.016 ug/l
4,4'-DDT	--	--	< 0.020 ug/l	--	--	--	--	< 0.024 mg/kg	< 0.025 mg/kg	--	--	--	< 0.020 ug/l
a-BHC	--	--	< 0.021 ug/l	--	--	--	--	< 0.024 mg/kg	< 0.025 mg/kg	--	--	--	< 0.021 ug/l
Acetochlor	--	--	--	--	--	--	--	--	--	--	--	--	--
Alachlor (Lasso)	--	--	--	--	--	--	--	--	--	--	--	--	--
Aldrin	--	--	< 0.018 ug/l	--	--	--	--	< 0.024 mg/kg	< 0.025 mg/kg	--	--	--	< 0.018 ug/l
Atrazine (Primatol)	--	--	--	--	--	--	--	--	--	--	--	--	--
b-BHC	--	--	< 0.016 ug/l	--	--	--	--	< 0.024 mg/kg	< 0.025 mg/kg	--	--	--	< 0.016 ug/l
Bentazone	--	--	--	< 0.050 mg/kg	--	--	--	--	--	--	--	--	< 0.50 ug/l

Table H-1
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SSI/RI Report SOC_s 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code Sample Date Sample Type Code	Lab Blank 09/15/2009 LB	Field Blank 09/17/2009 FB	Lab Blank 09/21/2009 LB	Lab Blank 09/21/2009 LB	Lab Blank 09/22/2009 LB	Lab Blank 09/22/2009 LB	Lab Blank 09/25/2009 LB	Lab Blank 09/29/2009 LB	Lab Blank 09/29/2009 LB	Lab Blank 09/29/2009 LB	Lab Blank 09/29/2009 LB	Lab Blank 09/29/2009 FB	
Chemical Name													
Chlordane (alpha+gamma)	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlordane, alpha	--	--	< 0.016 ug/l	--	--	--	--	< 0.024 mg/kg	< 0.025 mg/kg	--	--	< 0.016 ug/l	
Chlordane, gamma	--	--	< 0.042 ug/l	--	--	--	--	< 0.024 mg/kg	< 0.025 mg/kg	--	--	< 0.042 ug/l	
Chlorpyrifos (Lorsban)	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanazine (Bladex)	--	--	--	--	--	--	--	--	--	--	--	--	--
d-BHC	--	--	< 0.014 ug/l	--	--	--	--	< 0.024 mg/kg	< 0.025 mg/kg	--	--	< 0.014 ug/l	
Deisopropyl atrazine	--	--	--	--	--	--	--	--	--	--	--	--	--
Desethylatrazine	--	--	--	--	--	--	--	--	--	--	--	--	--
Dicamba	--	--	--	< 0.050 mg/kg	--	--	--	--	--	--	--	--	< 0.50 ug/l
Dieldrin	--	--	< 0.024 ug/l	--	--	--	--	< 0.024 mg/kg	< 0.025 mg/kg	--	--	< 0.024 ug/l	
Dimethenamid	--	--	--	--	--	--	--	--	--	--	--	--	--
Dinoseb (DNBP)	--	--	--	< 0.050 mg/kg	--	--	--	--	--	--	--	--	< 0.50 ug/l
Endosulfan I	--	--	< 0.021 ug/l	--	--	--	--	< 0.024 mg/kg	< 0.025 mg/kg	--	--	< 0.021 ug/l	
Endosulfan II	--	--	< 0.019 ug/l	--	--	--	--	< 0.024 mg/kg	< 0.025 mg/kg	--	--	< 0.019 ug/l	
Endosulfan Sulfate	--	--	< 0.019 ug/l	--	--	--	--	< 0.024 mg/kg	< 0.025 mg/kg	--	--	< 0.019 ug/l	
Endrin	--	--	< 0.020 ug/l	--	--	--	--	< 0.024 mg/kg	< 0.025 mg/kg	--	--	< 0.020 ug/l	

Table H-1
Soil/Groundwater Sampling Results - QC Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code Sample Date Sample Type Code	Lab Blank 09/15/2009 LB	Field Blank 09/17/2009 FB	Lab Blank 09/21/2009 LB	Lab Blank 09/21/2009 LB	Lab Blank 09/22/2009 LB	Lab Blank 09/22/2009 LB	Lab Blank 09/25/2009 LB	Lab Blank 09/29/2009 LB	Lab Blank 09/29/2009 LB	Lab Blank 09/29/2009 LB	Lab Blank 09/29/2009 LB	Lab Blank 09/29/2009 FB	
Chemical Name													
Endrin Aldehyde	--	--	< 0.040 ug/l	--	--	--	--	--	< 0.024 mg/kg	< 0.025 mg/kg	--	< 0.040 ug/l	
Endrin Ketone	--	--	< 0.019 ug/l	--	--	--	--	--	< 0.024 mg/kg	< 0.025 mg/kg	--	< 0.019 ug/l	
EPTC (Eradicane)	--	--	--	--	--	--	--	--					
Ethalfluralin (Sonalan)	--	--	--	--	--	--	--	--					
Fonofos (Dyphonate)	--	--	--	--	--	--	--	--					
g-BHC (Lindane)	--	--	< 0.020 ug/l	--	--	--	--	--	< 0.024 mg/kg	< 0.025 mg/kg	--	< 0.020 ug/l	
g-Chlordane	--	--	--	--	--	--	--	--					
Heptachlor	--	--	< 0.018 ug/l	--	--	--	--	--	< 0.024 mg/kg	< 0.025 mg/kg	--	< 0.018 ug/l	
Heptachlor Epoxide	--	--	< 0.038 ug/l	--	--	--	--	--	< 0.024 mg/kg	< 0.025 mg/kg	--	< 0.038 ug/l	
MCPA	--	--	--	< 0.050 mg/kg	--	--	--	--				< 0.30 ug/l	
Methoxychlor	--	--	< 0.026 ug/l	--	--	--	--	--	< 0.024 mg/kg	< 0.025 mg/kg	--	< 0.026 ug/l	
Metolachlor (Dual)	--	--	--	--	--	--	--	--					
Metribuzin	--	--	--	--	--	--	--	--					
Pendimethalin (Prowl)	--	--	--	--	--	--	--	--					

Table H-1
Soil/Groundwater Sampling Results - QC Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code Sample Date Sample Type Code	Lab Blank 09/15/2009 LB	Field Blank 09/17/2009 FB	Lab Blank 09/21/2009 LB	Lab Blank 09/21/2009 LB	Lab Blank 09/22/2009 LB	Lab Blank 09/22/2009 LB	Lab Blank 09/25/2009 LB	Lab Blank 09/29/2009 LB	Lab Blank 09/29/2009 LB	Lab Blank 09/29/2009 LB	Lab Blank 09/29/2009 LB	Lab Blank 09/29/2009 FB	
Chemical Name													
Pentachlorophenol	--	--	--	< 0.050 mg/kg	--	--	--	--	--	--	--	--	< 0.50 ug/l
Phorate (Thimet)	--	--	--	--	--	--	--	--	--	--	--	--	--
Picloram	--	--	--	< 0.050 mg/kg	--	--	--	--	--	--	--	--	< 0.50 ug/l
Prometon (Pramitol)	--	--	--	--	--	--	--	--	--	--	--	--	--
Propachlor	--	--	--	--	--	--	--	--	--	--	--	--	--
Propazine (Milogard)	--	--	--	--	--	--	--	--	--	--	--	--	--
Simazine (Princep)	--	--	--	--	--	--	--	--	--	--	--	--	--
Terbufos (Counter)	--	--	--	--	--	--	--	--	--	--	--	--	--
Toxaphene	--	--	< 1.0 ug/l	--	--	--	--	--	< 0.49 mg/kg	< 0.50 mg/kg	--	--	< 1.0 ug/l
Triallate (Far-Go)	--	--	--	--	--	--	--	--	--	--	--	--	--
Triclopyr	--	--	--	< 0.050 mg/kg	--	--	--	--	--	--	--	--	< 0.50 ug/l
Trifluralin (Treflan)	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetochlor	--	--	--	--	< 0.040 mg/kg	< 0.25 ug/l	--	--	--	--	< 0.077 mg/kg	< 0.25 ug/l	
Alachlor (Lasso)	--	--	--	--	< 0.040 mg/kg	< 0.19 ug/l	--	--	--	--	< 0.077 mg/kg	< 0.19 ug/l	
Atrazine (Primatol)	--	--	--	--	< 0.040 mg/kg	< 0.24 ug/l	--	--	--	--	< 0.077 mg/kg	< 0.24 ug/l	
Chlorpyrifos (Lorsban)	--	--	--	--	< 0.040 mg/kg	< 0.34 ug/l	--	--	--	--	< 0.077 mg/kg	< 0.34 ug/l	
Cyanazine (Bladex)	--	--	--	--	< 0.040 mg/kg	< 0.48 ug/l	--	--	--	--	< 0.077 mg/kg	< 0.48 ug/l	
Deisopropyl atrazine	--	--	--	--	< 0.040 mg/kg	< 0.26 ug/l	--	--	--	--	< 0.077 mg/kg	< 0.26 ug/l	
Desethylatrazine	--	--	--	--	< 0.040 mg/kg	< 0.29 ug/l	--	--	--	--	< 0.077 mg/kg	< 0.29 ug/l	
Dimethenamid	--	--	--	--	< 0.040 mg/kg	< 0.24 ug/l	--	--	--	--	< 0.077 mg/kg	< 0.24 ug/l	

Table H-1
Soil/Groundwater Sampling Results - QC Data
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UMore Mining Area
Dakota County, Minnesota

Sys Loc Code Sample Date Sample Type Code	Lab Blank 09/15/2009 LB	Field Blank 09/17/2009 FB	Lab Blank 09/21/2009 LB	Lab Blank 09/21/2009 LB	Lab Blank 09/22/2009 LB	Lab Blank 09/22/2009 LB	Lab Blank 09/25/2009 LB	Lab Blank 09/29/2009 LB	Lab Blank 09/29/2009 LB	Lab Blank 09/29/2009 LB	Lab Blank 09/29/2009 LB	Lab Blank 09/29/2009 FB
Chemical Name												
EPTC (Eradicane)	--	--	--	--	< 0.040 mg/kg	< 0.22 ug/l	--	--	--	--	< 0.077 mg/kg	< 0.22 ug/l
Ethalfluralin (Sonalan)	--	--	--	--	< 0.040 mg/kg	< 0.47 ug/l	--	--	--	--	< 0.077 mg/kg	< 0.47 ug/l
Fonofos (Dyphonate)	--	--	--	--	< 0.040 mg/kg	< 0.30 ug/l	--	--	--	--	< 0.077 mg/kg	< 0.30 ug/l
Metolachlor (Dual)	--	--	--	--	< 0.040 mg/kg	< 0.28 ug/l	--	--	--	--	< 0.077 mg/kg	< 0.28 ug/l
Metribuzin	--	--	--	--	< 0.040 mg/kg	< 0.35 ug/l	--	--	--	--	< 0.077 mg/kg	< 0.35 ug/l
Pendimethalin (Prowl)	--	--	--	--	< 0.040 mg/kg	< 0.25 ug/l	--	--	--	--	< 0.077 mg/kg	< 0.25 ug/l
Phorate (Thimet)	--	--	--	--	< 0.040 mg/kg	< 0.58 ug/l	--	--	--	--	< 0.077 mg/kg	< 0.58 ug/l
Prometon (Pramitol)	--	--	--	--	< 0.040 mg/kg	< 0.29 ug/l	--	--	--	--	< 0.077 mg/kg	< 0.29 ug/l
Propachlor	--	--	--	--	< 0.040 mg/kg	< 0.14 ug/l	--	--	--	--	< 0.077 mg/kg	< 0.14 ug/l
Propazine (Milogard)	--	--	--	--	< 0.040 mg/kg	< 0.21 ug/l	--	--	--	--	< 0.077 mg/kg	< 0.21 ug/l
Simazine (Princep)	--	--	--	--	< 0.040 mg/kg	< 0.32 ug/l	--	--	--	--	< 0.077 mg/kg	< 0.32 ug/l
Terbufos (Counter)	--	--	--	--	< 0.040 mg/kg	< 0.54 ug/l	--	--	--	--	< 0.077 mg/kg	< 0.54 ug/l
Triallate (Far-Go)	--	--	--	--	< 0.040 mg/kg	< 0.34 ug/l	--	--	--	--	< 0.077 mg/kg	< 0.34 ug/l
Trifluralin (Treflan)	--	--	--	--	< 0.040 mg/kg	< 0.21 ug/l	--	--	--	--	< 0.077 mg/kg	< 0.21 ug/l
PCBs												
Aroclor 1016	< 0.20 mg/kg	< 1.9 ug/l	--	--	--	< 0.20 mg/kg	< 2.0 ug/l	--	--	--	--	--
Aroclor 1221	< 0.20 mg/kg	< 1.9 ug/l	--	--	--	< 0.20 mg/kg	< 2.0 ug/l	--	--	--	--	--
Aroclor 1232	< 0.20 mg/kg	< 1.9 ug/l	--	--	--	< 0.20 mg/kg	< 2.0 ug/l	--	--	--	--	--
Aroclor 1242	< 0.20 mg/kg	< 1.9 ug/l	--	--	--	< 0.20 mg/kg	< 2.0 ug/l	--	--	--	--	--
Aroclor 1248	< 0.20 mg/kg	< 1.9 ug/l	--	--	--	< 0.20 mg/kg	< 2.0 ug/l	--	--	--	--	--
Aroclor 1254	< 0.20 mg/kg	< 1.9 ug/l	--	--	--	< 0.20 mg/kg	< 2.0 ug/l	--	--	--	--	--
Aroclor 1260	< 0.20 mg/kg	< 1.9 ug/l	--	--	--	< 0.20 mg/kg	< 2.0 ug/l	--	--	--	--	--

Table H-1
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Sys Loc Code Sample Date Sample Type Code	Field Blank 09/30/2009 FB	Lab Blank 10/02/2009 LB	Lab Blank 10/02/2009 LB	Lab Blank 10/02/2009 LB	Lab Blank 10/08/2009 LB	Lab Blank 10/09/2009 LB	Lab Blank 10/09/2009 LB	Lab Blank 10/13/2009 LB
Chemical Name								
Pesticides								
2,4,5-TP (Silvex)	< 0.50 ug/l	--	< 0.50 ug/l	--	< 0.50 ug/l	--	--	< 0.049 mg/kg
2,4,5-Trichlorophenoxyacetic acid	< 0.50 ug/l	--	< 0.50 ug/l	--	< 0.50 ug/l	--	--	< 0.049 mg/kg
2,4-D	< 0.50 ug/l	--	< 0.50 ug/l	--	< 0.50 ug/l	--	--	< 0.049 mg/kg
2,4-DB	< 0.50 ug/l	--	< 0.50 ug/l	--	< 0.50 ug/l	--	--	< 0.049 mg/kg
4,4'-DDD	--	--	--	< 0.016 ug/l	--	--	< 0.016 ug/l	--
4,4'-DDE	--	--	--	< 0.016 ug/l	--	--	< 0.016 ug/l	--
4,4'-DDT	--	--	--	< 0.020 ug/l	--	--	< 0.020 ug/l	--
a-BHC	--	--	--	< 0.021 ug/l	--	--	< 0.021 ug/l	--
Acetochlor	--	--	--	--	--	--	--	--
Alachlor (Lasso)	--	--	--	--	--	--	--	--
Aldrin	--	--	--	< 0.018 ug/l	--	--	< 0.018 ug/l	--
Atrazine (Primatol)	--	--	--	--	--	--	--	--
b-BHC	--	--	--	< 0.016 ug/l	--	--	< 0.016 ug/l	--
Bentazone	< 0.50 ug/l	--	< 0.50 ug/l	--	< 0.50 ug/l	--	--	< 0.049 mg/kg

Table H-1
Soil/Groundwater Sampling Results - QC Data
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Sys Loc Code Sample Date Sample Type Code	Field Blank 09/30/2009 FB	Lab Blank 10/02/2009 LB	Lab Blank 10/02/2009 LB	Lab Blank 10/02/2009 LB	Lab Blank 10/08/2009 LB	Lab Blank 10/09/2009 LB	Lab Blank 10/09/2009 LB	Lab Blank 10/13/2009 LB
Chemical Name								
Chlordane (alpha+gamma)	--	--	--	--	--	--	--	--
Chlordane, alpha	--	--	--	< 0.016 ug/l	--	--	< 0.016 ug/l	--
Chlordane, gamma	--	--	--	< 0.042 ug/l	--	--	< 0.042 ug/l	--
Chlorpyrifos (Lorsban)	--	--	--	--	--	--	--	--
Cyanazine (Bladex)	--	--	--	--	--	--	--	--
d-BHC	--	--	--	< 0.014 ug/l	--	--	< 0.014 ug/l	--
Deisopropyl atrazine	--	--	--	--	--	--	--	--
Desethylatrazine	--	--	--	--	--	--	--	--
Dicamba	< 0.50 ug/l	--	< 0.50 ug/l	--	< 0.50 ug/l	--	--	< 0.049 mg/kg
Dieldrin	--	--	--	< 0.024 ug/l	--	--	< 0.024 ug/l	--
Dimethenamid	--	--	--	--	--	--	--	--
Dinoseb (DNBP)	< 0.50 ug/l	--	< 0.50 ug/l	--	< 0.50 ug/l	--	--	< 0.049 * mg/kg
Endosulfan I	--	--	--	< 0.021 ug/l	--	--	< 0.021 ug/l	--
Endosulfan II	--	--	--	< 0.019 ug/l	--	--	< 0.019 ug/l	--
Endosulfan Sulfate	--	--	--	< 0.019 ug/l	--	--	< 0.019 ug/l	--
Endrin	--	--	--	< 0.020 ug/l	--	--	< 0.020 ug/l	--

Table H-1
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UMore Mining Area
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Sys Loc Code Sample Date Sample Type Code	Field Blank 09/30/2009 FB	Lab Blank 10/02/2009 LB	Lab Blank 10/02/2009 LB	Lab Blank 10/02/2009 LB	Lab Blank 10/08/2009 LB	Lab Blank 10/09/2009 LB	Lab Blank 10/09/2009 LB	Lab Blank 10/13/2009 LB
Chemical Name								
Endrin Aldehyde	--	--	--	< 0.040 ug/l	--	--	< 0.040 ug/l	--
Endrin Ketone	--	--	--	< 0.019 ug/l	--	--	< 0.019 ug/l	--
EPTC (Eradicane)	--	--	--	--	--	--	--	--
Ethalfluralin (Sonalan)	--	--	--	--	--	--	--	--
Fonofos (Dyphonate)	--	--	--	--	--	--	--	--
g-BHC (Lindane)	--	--	--	< 0.020 ug/l	--	--	< 0.020 ug/l	--
g-Chlordane	--	--	--	--	--	--	--	--
Heptachlor	--	--	--	< 0.018 ug/l	--	--	< 0.018 ug/l	--
Heptachlor Epoxide	--	--	--	< 0.038 ug/l	--	--	< 0.038 ug/l	--
MCPA	< 0.30 ug/l	--	< 0.30 ug/l	--	< 0.30 ug/l	--	--	< 0.049 mg/kg
Methoxychlor	--	--	--	< 0.026 ug/l	--	--	< 0.026 ug/l	--
Metolachlor (Dual)	--	--	--	--	--	--	--	--
Metribuzin	--	--	--	--	--	--	--	--
Pendimethalin (Prowl)	--	--	--	--	--	--	--	--

Table H-1
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Sys Loc Code Sample Date Sample Type Code	Field Blank 09/30/2009 FB	Lab Blank 10/02/2009 LB	Lab Blank 10/02/2009 LB	Lab Blank 10/02/2009 LB	Lab Blank 10/08/2009 LB	Lab Blank 10/09/2009 LB	Lab Blank 10/09/2009 LB	Lab Blank 10/13/2009 LB
Chemical Name								
Pentachlorophenol	< 0.50 ug/l	--	< 0.50 ug/l	--	< 0.50 ug/l	--	--	< 0.049 mg/kg
Phorate (Thimet)	--	--	--	--	--	--	--	--
Picloram	< 0.50 ug/l	--	< 0.50 ug/l	--	< 0.50 ug/l	--	--	< 0.049 mg/kg
Prometon (Pramitol)	--	--	--	--	--	--	--	--
Propachlor	--	--	--	--	--	--	--	--
Propazine (Milogard)	--	--	--	--	--	--	--	--
Simazine (Princep)	--	--	--	--	--	--	--	--
Terbufos (Counter)	--	--	--	--	--	--	--	--
Toxaphene	--	--	--	< 1.0 ug/l	--	--	< 1.0 ug/l	--
Triallate (Far-Go)	--	--	--	--	--	--	--	--
Triclopyr	< 0.50 ug/l	--	< 0.50 ug/l	--	< 0.50 ug/l	--	--	< 0.049 mg/kg
Trifluralin (Treflan)	--	--	--	--	--	--	--	--
Acetochlor	--	< 0.25 ug/l	--	--	--	< 0.25 ug/l	--	--
Alachlor (Lasso)	--	< 0.19 ug/l	--	--	--	< 0.19 ug/l	--	--
Atrazine (Primatol)	--	< 0.24 ug/l	--	--	--	< 0.24 ug/l	--	--
Chlorpyrifos (Lorsban)	--	< 0.34 ug/l	--	--	--	< 0.34 ug/l	--	--
Cyanazine (Bladex)	--	< 0.48 ug/l	--	--	--	< 0.48 ug/l	--	--
Deisopropyl atrazine	--	< 0.26 ug/l	--	--	--	< 0.26 ug/l	--	--
Desethylatrazine	--	< 0.29 ug/l	--	--	--	< 0.29 ug/l	--	--
Dimethenamid	--	< 0.24 ug/l	--	--	--	< 0.24 ug/l	--	--

Table H-1
Soil/Groundwater Sampling Results - QC Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code Sample Date Sample Type Code	Field Blank 09/30/2009 FB	Lab Blank 10/02/2009 LB	Lab Blank 10/02/2009 LB	Lab Blank 10/02/2009 LB	Lab Blank 10/08/2009 LB	Lab Blank 10/09/2009 LB	Lab Blank 10/09/2009 LB	Lab Blank 10/13/2009 LB
Chemical Name								
EPTC (Eradicane)	--	< 0.22 ug/l	--	--	--	< 0.22 ug/l	--	--
Ethalfluralin (Sonalan)	--	< 0.47 ug/l	--	--	--	< 0.47 ug/l	--	--
Fonofos (Dyphonate)	--	< 0.30 ug/l	--	--	--	< 0.30 ug/l	--	--
Metolachlor (Dual)	--	< 0.28 ug/l	--	--	--	< 0.28 ug/l	--	--
Metribuzin	--	< 0.35 ug/l	--	--	--	< 0.35 ug/l	--	--
Pendimethalin (Prowl)	--	< 0.25 ug/l	--	--	--	< 0.25 ug/l	--	--
Phorate (Thimet)	--	< 0.58 ug/l	--	--	--	< 0.58 ug/l	--	--
Prometon (Pramitol)	--	< 0.29 ug/l	--	--	--	< 0.29 ug/l	--	--
Propachlor	--	< 0.14 ug/l	--	--	--	< 0.14 ug/l	--	--
Propazine (Milogard)	--	< 0.21 ug/l	--	--	--	< 0.21 ug/l	--	--
Simazine (Princep)	--	< 0.32 ug/l	--	--	--	< 0.32 ug/l	--	--
Terbufos (Counter)	--	< 0.54 ug/l	--	--	--	< 0.54 ug/l	--	--
Triallate (Far-Go)	--	< 0.34 ug/l	--	--	--	< 0.34 ug/l	--	--
Trifluralin (Treflan)	--	< 0.21 ug/l	--	--	--	< 0.21 ug/l	--	--
PCBs								
Aroclor 1016	--	--	--	--	--	--	--	--
Aroclor 1221	--	--	--	--	--	--	--	--
Aroclor 1232	--	--	--	--	--	--	--	--
Aroclor 1242	--	--	--	--	--	--	--	--
Aroclor 1248	--	--	--	--	--	--	--	--
Aroclor 1254	--	--	--	--	--	--	--	--
Aroclor 1260	--	--	--	--	--	--	--	--

Table H-2
Soil/Groundwater Sampling Results - RPD Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code	SOC3-TT6R		RPD Percent %	SOC4-GP4		RPD Percent %	SOC4-GP4		RPD Percent %	SOC4-TT12		RPD Percent %
	09/18/2009			09/10/2009			09/10/2009			09/17/2009		
Sample Date			1 - 2 ft	1 - 2 ft	N	FD	1 - 2 ft	1 - 2 ft	N	FD	0.5 - 0.5 ft	0.5 - 0.5 ft
Depth Interval												
Depth Unit												
Sample Type Code	N	FD										
Chemical Name												
General Parameters												
Nitrate + Nitrite	--	--	--	--	--	--	--	--	--	--	--	
Nitrocellulose	--	--	--	--	--	--	--	--	--	--	--	
Nitrogen total kjeldahl	--	--	--	--	--	--	--	--	--	--	--	
Perchlorate	--	--	--	--	--	--	--	--	--	--	--	
Solids, percent	90%	88%	2.25	86%	85%	1.17	86%	85%	1.17	82 % 81 %	84 % 81 %	2.41 0.00

Table H-2
Soil/Groundwater Sampling Results - RPD Data
SSI/RI Report SOC_s 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code	SOC4-TT12		RPD Percent %	SOC4-TT9		RPD Percent %	SOC5-GP1		RPD Percent %	SOC5-SS10		RPD Percent %
	09/17/2009			09/10/2009			09/02/2009			09/10/2009		
Sample Date	0.5 - 0.5	0.5 - 0.5	RPD Percent %	6 - 6	6 - 6	ft	N	FD	ft	N	ft	FD
Depth Interval	0.5 - 0.5	0.5 - 0.5	RPD Percent %	6 - 6	6 - 6	ft	N	FD	ft	N	ft	FD
Depth Unit	ft	ft	RPD Percent %	ft	ft	ft	N	FD	ft	N	ft	FD
Sample Type Code	N	FD	RPD Percent %	N	FD	RPD Percent %	N	FD	RPD Percent %	N	FD	RPD Percent %
Chemical Name												
General Parameters												
Nitrate + Nitrite	--	--		--	--		3.8 mg/l	3.9 mg/l	2.60	--	--	
Nitrocellulose	< 6.1 mg/kg	< 6.1 mg/kg		--	--		< 0.50 mg/l	< 0.50 mg/l		< 5.7 mg/kg	< 5.9 mg/kg	
Nitrogen total kjeldahl	--	--		--	--		< 2.0 mg/l	< 2.0 mg/l		--	--	
Perchlorate	--	--		--	--		< 4.0 ug/l	< 4.0 ug/l		--	--	
Solids, percent	--	--		99 %	99 %	0.00	--	--		87 %	87 %	0.00
				99 %	99 %					87 %	89 %	2.27

Table H-2
Soil/Groundwater Sampling Results - RPD Data
SSI/RI Report SOC_s 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code	SOC5-SS1A		RPD Percent %	SOC5-SS2I		RPD Percent %
	09/25/2009	0.5 - 0.5		11/10/2009	0 - 0.5	
Sample Date			Depth Interval	ft	ft	Depth Unit
Sample Type Code	N	FD		N	FD	Sample Type Code
Chemical Name						
General Parameters						
Nitrate + Nitrite	--	--		--	--	
Nitrocellulose	--	--		--	--	
Nitrogen total kjeldahl	--	--		--	--	
Perchlorate	--	--		--	--	
Solids, percent	89%	89%	0.00	88%	88%	0.00

Table H-2
Soil/Groundwater Sampling Results - RPD Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sample Type Code	Sys Loc Code	MW-E2-012		RPD Percent %	SOC3-TT6R		RPD Percent %	SOC4-GP4		RPD Percent %			
		10/02/2009			09/18/2009			09/10/2009					
		Depth Interval	Depth Unit		N	FD		N	FD				
Chemical Name	Total or Dissolved												
Metals													
Antimony	Dissolved	< 0.046 ug/l	0.078 ±b ug/l	--	--		--	--	--				
Antimony	Total	--	--	--	--		< 0.58 mg/kg	< 0.59 mg/kg					
Arsenic	Dissolved	< 10 ug/l	< 10 ug/l	--	--		--	--	--				
Arsenic	Total	--	--	--	--		5.8 mg/kg	6.7 mg/kg	14.40				
Beryllium	Dissolved	< 0.027 ug/l	< 0.027 ug/l	--	--		--	--	--				
Beryllium	Total	--	--	--	--		< 0.29 mg/kg	< 0.29 mg/kg					
Cadmium	Dissolved	< 1.0 ug/l	< 1.0 ug/l	--	--		--	--	--				
Cadmium	Total	--	--	--	--		< 0.29 mg/kg	< 0.29 mg/kg					
Chromium	Dissolved	< 10 ug/l	< 10 ug/l	--	--		--	--	--				
Chromium	Total	--	--	--	--		14 mg/kg	18 mg/kg	25.00				
Chromium, hexavalent	Total	--	--	< 2.7 mg/kg	< 2.6 mg/kg		--	--	--				
Copper	Dissolved	< 20 ug/l	< 20 ug/l	--	--		--	--	--				
Copper	Total	--	--	--	--		11 mg/kg	13 mg/kg	16.67				
Lead	Dissolved	< 3.0 ug/l	< 3.0 ug/l	--	--		--	--	--				
Lead	Total	--	--	--	--		8.2 mg/kg	9.6 mg/kg	15.73				
Mercury	Dissolved	< 0.20 ug/l	< 0.20 ug/l	--	--		--	--	--				
Mercury	Total	--	--	--	--		< 0.12 mg/kg	< 0.12 mg/kg					
Nickel	Dissolved	< 5.0 ug/l	< 5.0 ug/l	--	--		--	--	--				
Nickel	Total	--	--	--	--		18 mg/kg	19 mg/kg	5.41				
Selenium	Dissolved	< 20 ug/l	< 20 ug/l	--	--		--	--	--				
Selenium	Total	--	--	--	--		< 1.2 mg/kg	< 1.2 mg/kg					
Silver	Dissolved	< 5.0 ug/l	< 5.0 ug/l	--	--		--	--	--				
Silver	Total	--	--	--	--		< 0.29 mg/kg	< 0.29 mg/kg					
Thallium	Dissolved	< 0.0081 ug/l	< 0.0081 ug/l	--	--		--	--	--				
Thallium	Total	--	--	--	--		< 2.3 mg/kg	< 2.4 mg/kg					
Zinc	Dissolved	< 20 ug/l	< 20 ug/l	--	--		--	--	--				
Zinc	Total	--	--	--	--		< 1.2 * mg/kg	< 1.2 mg/kg					

Table H-2
Soil/Groundwater Sampling Results - RPD Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sample Type Code	Sys Loc Code	SOC4-TT12		RPD Percent %	SOC4-TT9		RPD Percent %	SOC5-GP1		RPD Percent %		
		09/17/2009			09/10/2009			09/02/2009				
	Depth Interval		0.5 - 0.5		6 - 6	6 - 6		N	FD			
	Depth Unit	ft	ft		ft	ft		N	FD			
	Total or Dissolved											
Chemical Name												
Metals												
Antimony	Dissolved	--	--		--	--		0.54 ug/l	1.2 ug/l	75.86		
Antimony	Total	< 0.62 mg/kg	< 0.62 mg/kg		< 0.51 mg/kg	< 0.51 mg/kg		--	--			
Arsenic	Dissolved	--	--		--	--		< 10 ug/l	< 10 ug/l			
Arsenic	Total	8.1 mg/kg	8.0 mg/kg	1.24	1.4 mg/kg	1.4 mg/kg	0.00	--	--			
Beryllium	Dissolved	--	--		--	--		< 0.027 * ug/l	< 0.027 * ug/l			
Beryllium	Total	0.41 mg/kg	0.39 mg/kg	5.00	< 0.25 mg/kg	< 0.25 mg/kg		--	--			
Cadmium	Dissolved	--	--		--	--		< 1.0 ug/l	< 1.0 ug/l			
Cadmium	Total	< 0.31 mg/kg	< 0.31 mg/kg		< 0.25 mg/kg	< 0.25 mg/kg		--	--			
Chromium	Dissolved	--	--		--	--		< 10 ug/l	< 10 ug/l			
Chromium	Total	22 mg/kg	21 mg/kg	4.65	5.3 * mg/kg	9.1 mg/kg	52.78	--	--			
Chromium, hexavalent	Total	--	--		--	--		--	--			
Copper	Dissolved	--	--		--	--		< 20 ug/l	< 20 ug/l			
Copper	Total	< 1.2 * mg/kg	< 1.2 * mg/kg		5.2 mg/kg	5.6 mg/kg	7.41	--	--			
Lead	Dissolved	--	--		--	--		< 3.0 ug/l	< 3.0 ug/l			
Lead	Total	16 mg/kg	16 mg/kg	0.00	1.4 mg/kg	1.6 mg/kg	13.33	--	--			
Mercury	Dissolved	--	--		--	--		< 0.20 ug/l	< 0.20 ug/l			
Mercury	Total	< 0.12 mg/kg	< 0.12 mg/kg		< 0.10 mg/kg	< 0.10 mg/kg		--	--			
Nickel	Dissolved	--	--		--	--		5.3 ug/l	6.4 ug/l	18.80		
Nickel	Total	15 mg/kg	15 mg/kg	0.00	8.4 mg/kg	7.7 mg/kg	8.70	--	--			
Selenium	Dissolved	--	--		--	--		< 20 ug/l	< 20 ug/l			
Selenium	Total	< 1.2 mg/kg	< 1.2 mg/kg		< 1.0 mg/kg	< 1.0 mg/kg		--	--			
Silver	Dissolved	--	--		--	--		< 5.0 ug/l	< 5.0 ug/l			
Silver	Total	< 0.31 mg/kg	< 0.31 mg/kg		< 0.25 mg/kg	< 0.25 mg/kg		--	--			
Thallium	Dissolved	--	--		--	--		0.097 j ug/l	0.11 j ug/l	12.56		
Thallium	Total	< 2.5 mg/kg	< 2.5 mg/kg		< 2.0 mg/kg	< 2.0 mg/kg		--	--			
Zinc	Dissolved	--	--		--	--		< 20 ug/l	< 20 ug/l			
Zinc	Total	58 mg/kg	58 mg/kg	0.00	3.8 * mg/kg	7.0 mg/kg	59.26	--	--			

Table H-2
Soil/Groundwater Sampling Results - RPD Data
SSI/RI Report SOC_s 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code Sample Date Depth Interval Depth Unit Sample Type Code	SOC5-SS10		RPD Percent %	SOC5-SS2I		RPD Percent %		
	09/10/2009			11/10/2009				
	0.5 - 0.5 ft N	0.5 - 0.5 ft FD		0 - 0.5 ft N	0 - 0.5 ft FD			
Chemical Name	Total or Dissolved							
Metals								
Antimony	Dissolved	--	--	--	--	--		
Antimony	Total	< 0.57 mg/kg	< 0.56 mg/kg	--	--	--		
Arsenic	Dissolved	--	--	--	--	--		
Arsenic	Total	5.8 mg/kg	4.9 mg/kg	16.82	--	--		
Beryllium	Dissolved	--	--	--	--	--		
Beryllium	Total	< 0.29 mg/kg	< 0.28 mg/kg	--	--	--		
Cadmium	Dissolved	--	--	--	--	--		
Cadmium	Total	< 0.29 mg/kg	< 0.28 mg/kg	--	--	--		
Chromium	Dissolved	--	--	--	--	--		
Chromium	Total	10 mg/kg	10 mg/kg	0.00	--	--		
Chromium, hexavalent	Total	--	--	--	--	--		
Copper	Dissolved	--	--	--	--	--		
Copper	Total	8.9 mg/kg	8.3 mg/kg	6.98	--	--		
Lead	Dissolved	--	--	--	--	--		
Lead	Total	10 mg/kg	9.5 mg/kg	5.13	--	--		
Mercury	Dissolved	--	--	--	--	--		
Mercury	Total	< 0.11 mg/kg	< 0.11 mg/kg	< 0.11 mg/kg	< 0.11 mg/kg	--		
Nickel	Dissolved	--	--	--	--	--		
Nickel	Total	12 mg/kg	12 mg/kg	0.00	--	--		
Selenium	Dissolved	--	--	--	--	--		
Selenium	Total	< 1.1 mg/kg	< 1.1 mg/kg	--	--	--		
Silver	Dissolved	--	--	--	--	--		
Silver	Total	< 0.29 mg/kg	< 0.28 mg/kg	--	--	--		
Thallium	Dissolved	--	--	--	--	--		
Thallium	Total	< 2.3 mg/kg	< 2.2 mg/kg	--	--	--		
Zinc	Dissolved	--	--	--	--	--		
Zinc	Total	30 mg/kg	29 mg/kg	3.39	--	--		

Table H-2
Soil/Groundwater Sampling Results - RPD Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code Sample Date Depth Interval Depth Unit Sample Type Code	SOC4-GP4 09/10/2009		RPD Percent %	SOC4-TT12 09/17/2009		RPD Percent %	SOC4-TT9 09/10/2009		RPD Percent %
	1 - 2 ft N	1 - 2 ft FD		0.5 - 0.5 ft N	0.5 - 0.5 ft FD		6 - 6 ft N	6 - 6 ft FD	
	Chemical Name	Total or Dissolved							
	SVOCs								
1,2,4-Trichlorobenzene	NA	< 0.031 mg/kg	< 0.032 mg/kg		< 0.033 mg/kg	< 0.033 mg/kg		< 0.027 mg/kg	< 0.027 mg/kg
1,2-Dichlorobenzene	NA	< 0.029 mg/kg	< 0.029 mg/kg		< 0.031 mg/kg	< 0.031 mg/kg		< 0.025 mg/kg	< 0.025 mg/kg
1,3-Dichlorobenzene	NA	< 0.027 mg/kg	< 0.027 mg/kg		< 0.028 mg/kg	< 0.028 mg/kg		< 0.023 mg/kg	< 0.023 mg/kg
1,4-Dichlorobenzene	NA	< 0.028 mg/kg	< 0.028 mg/kg		< 0.030 mg/kg	< 0.030 mg/kg		< 0.024 mg/kg	< 0.024 mg/kg
2,3,4,6-Tetrachlorophenol	NA	< 0.044 mg/kg	< 0.045 mg/kg		< 0.047 mg/kg	< 0.047 mg/kg		< 0.038 mg/kg	< 0.038 mg/kg
2,4,5-Trichlorophenol	NA	< 0.028 mg/kg	< 0.028 mg/kg		< 0.030 mg/kg	< 0.030 mg/kg		< 0.024 mg/kg	< 0.024 mg/kg
2,4,6-Trichlorophenol	NA	< 0.041 mg/kg	< 0.041 mg/kg		< 0.043 mg/kg	< 0.043 mg/kg		< 0.035 mg/kg	< 0.035 mg/kg
2,4-Dichlorophenol	NA	< 0.041 mg/kg	< 0.041 mg/kg		< 0.043 mg/kg	< 0.043 mg/kg		< 0.035 mg/kg	< 0.035 mg/kg
2,4-Dimethylphenol	NA	< 0.10 mg/kg	< 0.11 mg/kg		< 0.11 mg/kg	< 0.11 mg/kg		< 0.091 mg/kg	< 0.091 mg/kg
2,4-Dinitrophenol	NA	< 0.067 mg/kg	< 0.068 mg/kg		< 0.072 mg/kg	< 0.072 mg/kg		< 0.059 mg/kg	< 0.059 mg/kg
2,4-Dinitrotoluene	NA	< 0.024 mg/kg	< 0.025 mg/kg		< 0.026 mg/kg	< 0.026 mg/kg		< 0.021 mg/kg	< 0.021 mg/kg
2,6-Dichlorophenol	NA	< 0.050 mg/kg	< 0.051 mg/kg		< 0.053 mg/kg	< 0.053 mg/kg		< 0.043 mg/kg	< 0.043 mg/kg
2,6-Dinitrotoluene	NA	< 0.022 mg/kg	< 0.022 mg/kg		< 0.023 mg/kg	< 0.023 mg/kg		< 0.019 mg/kg	< 0.019 mg/kg
2-Chloronaphthalene	NA	< 0.022 mg/kg	< 0.022 mg/kg		< 0.023 mg/kg	< 0.023 mg/kg		< 0.019 mg/kg	< 0.019 mg/kg
2-Chlorophenol	NA	< 0.044 mg/kg	< 0.045 mg/kg		< 0.047 mg/kg	< 0.047 mg/kg		< 0.038 mg/kg	< 0.038 mg/kg
2-Methyl-4,6-dinitrophenol	NA	< 0.086 mg/kg	< 0.087 mg/kg		< 0.091 mg/kg	< 0.091 mg/kg		< 0.075 mg/kg	< 0.075 mg/kg
2-Methylnaphthalene	NA	< 0.033 mg/kg	< 0.033 mg/kg		< 0.035 mg/kg	< 0.035 mg/kg		< 0.028 mg/kg	< 0.028 mg/kg
2-Nitroaniline	NA	< 0.023 mg/kg	< 0.024 mg/kg		< 0.025 mg/kg	< 0.025 mg/kg		< 0.020 mg/kg	< 0.020 mg/kg
2-Nitrophenol	NA	< 0.042 mg/kg	< 0.042 mg/kg		< 0.044 mg/kg	< 0.044 mg/kg		< 0.036 mg/kg	< 0.036 mg/kg
3,3'-Dichlorobenzidine	NA	< 0.45 mg/kg	< 0.46 mg/kg		< 0.48 mg/kg	< 0.48 mg/kg		< 0.39 mg/kg	< 0.39 mg/kg
3-Nitroaniline	NA	< 0.038 mg/kg	< 0.039 mg/kg		< 0.041 mg/kg	< 0.041 mg/kg		< 0.033 mg/kg	< 0.033 mg/kg
4-Bromophenyl phenyl ether	NA	< 0.020 mg/kg	< 0.020 mg/kg		< 0.021 mg/kg	< 0.021 mg/kg		< 0.017 mg/kg	< 0.017 mg/kg
4-Chloro-3-methylphenol	NA	< 0.047 mg/kg	< 0.047 mg/kg		< 0.049 mg/kg	< 0.049 mg/kg		< 0.040 mg/kg	< 0.040 mg/kg
4-Chloroaniline	NA	< 0.13 mg/kg	< 0.13 mg/kg		< 0.14 mg/kg	< 0.14 mg/kg		< 0.11 mg/kg	< 0.11 mg/kg
4-Chlorophenyl phenyl ether	NA	< 0.027 mg/kg	< 0.027 mg/kg		< 0.028 mg/kg	< 0.028 mg/kg		< 0.023 mg/kg	< 0.023 mg/kg
4-Nitroaniline	NA	< 0.027 mg/kg	< 0.027 mg/kg		< 0.028 mg/kg	< 0.028 mg/kg		< 0.023 mg/kg	< 0.023 mg/kg
4-Nitrophenol	NA	< 0.12 mg/kg	< 0.12 mg/kg		< 0.12 mg/kg	< 0.12 mg/kg		< 0.10 mg/kg	< 0.10 mg/kg
Acenaphthene	NA	< 0.033 mg/kg	< 0.033 mg/kg		< 0.035 mg/kg	< 0.035 mg/kg		< 0.028 mg/kg	< 0.028 mg/kg
Acenaphthylene	NA	< 0.027 mg/kg	< 0.027 mg/kg		< 0.028 mg/kg	< 0.028 mg/kg		< 0.023 mg/kg	< 0.023 mg/kg
Aniline	NA	< 0.10 mg/kg	< 0.11 mg/kg		< 0.11 mg/kg	< 0.11 mg/kg		< 0.091 mg/kg	< 0.091 mg/kg
Anthracene	NA	< 0.029 mg/kg	< 0.029 mg/kg		< 0.031 mg/kg	< 0.031 mg/kg		< 0.025 mg/kg	< 0.025 mg/kg
Azobenzene	NA	< 0.023 mg/kg	< 0.024 mg/kg		< 0.025 mg/kg	< 0.025 mg/kg		< 0.020 mg/kg	< 0.020 mg/kg
Benzidine	NA	< 0.84 mg/kg	< 0.85 mg/kg		< 0.89 mg/kg	< 0.89 mg/kg		< 0.73 mg/kg	< 0.73 mg/kg
Benzo(a)anthracene	NA	< 0.031 mg/kg	< 0.032 mg/kg		< 0.033 mg/kg	< 0.033 mg/kg		< 0.027 mg/kg	< 0.027 mg/kg
Benzo(a)pyrene	NA	< 0.031 mg/kg	< 0.032 mg/kg		< 0.033 mg/kg	< 0.033 mg/kg		< 0.027 mg/kg	< 0.027 mg/kg
Benzo(b)fluoranthene	NA	< 0.040 mg/kg	< 0.040 mg/kg		< 0.042 mg/kg	< 0.042 mg/kg		< 0.034 mg/kg	< 0.034 mg/kg
Benzo(g,h,i)perylene	NA	< 0.035 mg/kg	< 0.035 mg/kg		< 0.037 mg/kg	< 0.037 mg/kg		< 0.030 mg/kg	< 0.030 mg/kg
Benzo(k)fluoranthene	NA	< 0.036 mg/kg	< 0.036 mg/kg		< 0.038 mg/kg	< 0.038 mg/kg		< 0.031 mg/kg	< 0.031 mg/kg
Benzoic Acid	NA	< 0.067 mg/kg	< 0.068 mg/kg		< 0.072 mg/kg	< 0.072 mg/kg		< 0.059 mg/kg	< 0.059 mg/kg
Benzyl alcohol	NA	< 0.14 mg/kg	< 0.14 mg/kg		< 0.15 mg/kg	< 0.15 mg/kg		< 0.12 mg/kg	< 0.12 mg/kg

Table H-2
Soil/Groundwater Sampling Results - RPD Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code	Sample Date	SOC4-GP4		RPD Percent %	SOC4-TT12		RPD Percent %	SOC4-TT9		RPD Percent %		
		09/10/2009			09/17/2009			09/10/2009				
	Depth Interval	1 - 2	1 - 2		0.5 - 0.5	0.5 - 0.5		6 - 6	6 - 6			
		ft	ft		ft	ft		ft	ft			
Chemical Name	Total or Dissolved											
Bis(2-chloroethoxy)methane	NA	< 0.024 mg/kg	< 0.025 mg/kg		< 0.026 mg/kg	< 0.026 mg/kg		< 0.021 mg/kg	< 0.021 mg/kg			
Bis(2-chloroethyl)ether	NA	< 0.028 mg/kg	< 0.028 mg/kg		< 0.030 mg/kg	< 0.030 mg/kg		< 0.024 mg/kg	< 0.024 mg/kg			
Bis(2-chloroisopropyl)ether	NA	< 0.026 mg/kg	< 0.026 mg/kg		< 0.027 mg/kg	< 0.027 mg/kg		< 0.022 mg/kg	< 0.022 mg/kg			
Bis(2-ethylhexyl)phthalate	NA	< 0.023 mg/kg	< 0.024 mg/kg		< 0.025 mg/kg	< 0.025 mg/kg		< 0.020 mg/kg	< 0.020 mg/kg			
Butyl benzyl phthalate	NA	< 0.024 mg/kg	< 0.025 mg/kg		< 0.026 mg/kg	< 0.026 mg/kg		< 0.021 mg/kg	< 0.021 mg/kg			
Carbazole	NA	< 0.026 mg/kg	< 0.026 mg/kg		< 0.027 mg/kg	< 0.027 mg/kg		< 0.022 mg/kg	< 0.022 mg/kg			
Chrysene	NA	< 0.038 mg/kg	< 0.039 mg/kg		< 0.041 mg/kg	< 0.041 mg/kg		< 0.033 mg/kg	< 0.033 mg/kg			
Dibenz(a,h)anthracene	NA	< 0.040 mg/kg	< 0.040 mg/kg		< 0.042 mg/kg	< 0.042 mg/kg		< 0.034 mg/kg	< 0.034 mg/kg			
Dibenzofuran	NA	< 0.022 mg/kg	< 0.022 mg/kg		< 0.023 mg/kg	< 0.023 mg/kg		< 0.019 mg/kg	< 0.019 mg/kg			
Diethyl phthalate	NA	< 0.017 mg/kg	< 0.018 mg/kg		< 0.019 mg/kg	< 0.019 mg/kg		< 0.015 mg/kg	< 0.015 mg/kg			
Dimethyl phthalate	NA	< 0.021 mg/kg	< 0.021 mg/kg		< 0.022 mg/kg	< 0.022 mg/kg		< 0.018 mg/kg	< 0.018 mg/kg			
Di-n-butyl phthalate	NA	< 0.043 mg/kg	< 0.044 mg/kg		< 0.046 mg/kg	< 0.046 mg/kg		< 0.037 mg/kg	< 0.037 mg/kg			
Di-n-octyl phthalate	NA	< 0.029 mg/kg	< 0.029 mg/kg		< 0.031 mg/kg	< 0.031 mg/kg		< 0.025 mg/kg	< 0.025 mg/kg			
Fluoranthene	NA	< 0.028 mg/kg	< 0.028 mg/kg		< 0.030 mg/kg	< 0.030 mg/kg		< 0.024 mg/kg	< 0.024 mg/kg			
Fluorene	NA	< 0.021 mg/kg	< 0.021 mg/kg		< 0.022 mg/kg	< 0.022 mg/kg		< 0.018 mg/kg	< 0.018 mg/kg			
Hexachlorobenzene	NA	< 0.019 mg/kg	< 0.019 mg/kg		< 0.020 mg/kg	< 0.020 mg/kg		< 0.016 mg/kg	< 0.016 mg/kg			
Hexachlorobutadiene	NA	< 0.038 mg/kg	< 0.039 mg/kg		< 0.041 mg/kg	< 0.041 mg/kg		< 0.033 mg/kg	< 0.033 mg/kg			
Hexachlorocyclopentadiene	NA	< 0.048 mg/kg	< 0.048 mg/kg		< 0.051 mg/kg	< 0.051 mg/kg		< 0.041 mg/kg	< 0.041 mg/kg			
Hexachloroethane	NA	< 0.033 mg/kg	< 0.033 mg/kg		< 0.035 mg/kg	< 0.035 mg/kg		< 0.028 mg/kg	< 0.028 mg/kg			
Indeno(1,2,3-cd)pyrene	NA	< 0.037 mg/kg	< 0.038 mg/kg		< 0.040 mg/kg	< 0.040 mg/kg		< 0.032 mg/kg	< 0.032 mg/kg			
Isophorone	NA	< 0.020 mg/kg	< 0.020 mg/kg		< 0.021 mg/kg	< 0.021 mg/kg		< 0.017 mg/kg	< 0.017 mg/kg			
Naphthalene	NA	< 0.034 mg/kg	< 0.034 mg/kg		< 0.036 mg/kg	< 0.036 mg/kg		< 0.029 mg/kg	< 0.029 mg/kg			
Nitrobenzene	NA	< 0.035 mg/kg	< 0.035 mg/kg		< 0.037 mg/kg	< 0.037 mg/kg		< 0.030 mg/kg	< 0.030 mg/kg			
N-Nitrosodimethylamine	NA	< 0.037 mg/kg	< 0.038 mg/kg		< 0.040 mg/kg	< 0.040 mg/kg		< 0.032 mg/kg	< 0.032 mg/kg			
N-Nitrosodi-n-propylamine	NA	< 0.029 mg/kg	< 0.029 mg/kg		< 0.031 mg/kg	< 0.031 mg/kg		< 0.025 mg/kg	< 0.025 mg/kg			
N-Nitrosodiphenylamine	NA	< 0.021 mg/kg	< 0.021 mg/kg		< 0.022 mg/kg	< 0.022 mg/kg		< 0.018 mg/kg	< 0.018 mg/kg			
o-Cresol	NA	< 0.041 mg/kg	< 0.041 mg/kg		< 0.043 mg/kg	< 0.043 mg/kg		< 0.035 mg/kg	< 0.035 mg/kg			
p-Cresol	NA	< 0.031 mg/kg	< 0.032 mg/kg		< 0.033 mg/kg	< 0.033 mg/kg		< 0.027 mg/kg	< 0.027 mg/kg			
Pentachlorophenol	NA	< 0.11 mg/kg	< 0.11 mg/kg		< 0.12 mg/kg	< 0.12 mg/kg		< 0.097 mg/kg	< 0.097 mg/kg			
Phenanthrene	NA	< 0.022 mg/kg	< 0.022 mg/kg		< 0.023 mg/kg	< 0.023 mg/kg		< 0.019 mg/kg	< 0.019 mg/kg			
Phenol	NA	< 0.066 mg/kg	< 0.067 mg/kg		< 0.070 mg/kg	< 0.070 mg/kg		< 0.058 mg/kg	< 0.058 mg/kg			
Pyrene	NA	< 0.027 mg/kg	< 0.027 mg/kg		< 0.028 mg/kg	< 0.028 mg/kg		< 0.023 mg/kg	< 0.023 mg/kg			

Table H-2
Soil/Groundwater Sampling Results - RPD Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code Sample Date Depth Interval Depth Unit Sample Type Code	SOC5-GP1 09/02/2009		RPD Percent %	SOC5-SS10 09/10/2009		RPD Percent %	SOC5-SS1A 09/25/2009		RPD Percent %
				0.5 - 0.5 ft N	0.5 - 0.5 ft FD		0.5 - 0.5 ft N	0.5 - 0.5 ft FD	
	Total or Dissolved								
	SVOCs								
1,2,4-Trichlorobenzene	NA	< 0.18 ug/l	< 0.18 ug/l		< 0.031 mg/kg	< 0.030 mg/kg		< 0.030 mg/kg	< 0.030 mg/kg
1,2-Dichlorobenzene	NA	< 0.21 ug/l	< 0.21 ug/l		< 0.029 mg/kg	< 0.028 mg/kg		< 0.028 mg/kg	< 0.028 mg/kg
1,3-Dichlorobenzene	NA	< 0.19 ug/l	< 0.19 ug/l		< 0.026 mg/kg	< 0.026 mg/kg		< 0.026 mg/kg	< 0.026 mg/kg
1,4-Dichlorobenzene	NA	< 0.20 ug/l	< 0.20 ug/l		< 0.028 mg/kg	< 0.027 mg/kg		< 0.027 mg/kg	< 0.027 mg/kg
2,3,4,6-Tetrachlorophenol	NA	< 0.56 ug/l	< 0.56 ug/l		< 0.044 mg/kg	< 0.043 mg/kg		< 0.043 mg/kg	< 0.043 mg/kg
2,4,5-Trichlorophenol	NA	< 0.74 ug/l	< 0.74 ug/l		< 0.028 mg/kg	< 0.027 mg/kg		< 0.027 mg/kg	< 0.027 mg/kg
2,4,6-Trichlorophenol	NA	< 0.44 ug/l	< 0.44 ug/l		< 0.040 mg/kg	< 0.039 mg/kg		< 0.039 mg/kg	< 0.039 mg/kg
2,4-Dichlorophenol	NA	< 0.44 ug/l	< 0.44 ug/l		< 0.040 mg/kg	< 0.039 mg/kg		< 0.039 mg/kg	< 0.039 mg/kg
2,4-Dimethylphenol	NA	< 1.5 ug/l	< 1.5 ug/l		< 0.10 mg/kg	< 0.10 mg/kg		< 0.10 mg/kg	< 0.10 mg/kg
2,4-Dinitrophenol	NA	< 0.93 ug/l	< 0.93 ug/l		< 0.067 mg/kg	< 0.065 mg/kg		< 0.065 mg/kg	< 0.065 mg/kg
2,4-Dinitrotoluene	NA	< 0.31 ug/l	< 0.31 ug/l		< 0.024 mg/kg	< 0.024 mg/kg		< 0.024 mg/kg	< 0.024 mg/kg
2,6-Dichlorophenol	NA	< 0.44 ug/l	< 0.44 ug/l		< 0.049 mg/kg	< 0.048 mg/kg		< 0.048 mg/kg	< 0.048 mg/kg
2,6-Dinitrotoluene	NA	< 0.33 ug/l	< 0.33 ug/l		< 0.022 mg/kg	< 0.021 mg/kg		< 0.021 mg/kg	< 0.021 mg/kg
2-Chloronaphthalene	NA	< 0.26 ug/l	< 0.26 ug/l		< 0.022 mg/kg	< 0.021 mg/kg		< 0.021 mg/kg	< 0.021 mg/kg
2-Chlorophenol	NA	< 0.42 ug/l	< 0.42 ug/l		< 0.044 mg/kg	< 0.043 mg/kg		< 0.043 mg/kg	< 0.043 mg/kg
2-Methyl-4,6-dinitrophenol	NA	< 0.60 ug/l	< 0.60 ug/l		< 0.085 mg/kg	< 0.083 mg/kg		< 0.083 mg/kg	< 0.083 mg/kg
2-Methylnaphthalene	NA	< 0.61 ug/l	< 0.61 ug/l		< 0.032 mg/kg	< 0.031 mg/kg		< 0.031 mg/kg	< 0.031 mg/kg
2-Nitroaniline	NA	< 0.67 ug/l	< 0.67 ug/l		< 0.023 mg/kg	< 0.022 mg/kg		< 0.022 mg/kg	< 0.022 mg/kg
2-Nitrophenol	NA	< 0.83 ug/l	< 0.83 ug/l		< 0.041 mg/kg	< 0.040 mg/kg		< 0.040 mg/kg	< 0.040 mg/kg
3,3'-Dichlorobenzidine	NA	< 6.8 ug/l	< 6.8 ug/l		< 0.45 mg/kg	< 0.44 mg/kg		< 0.44 mg/kg	< 0.44 mg/kg
3-Nitroaniline	NA	< 1.1 ug/l	< 1.1 ug/l		< 0.038 mg/kg	< 0.037 mg/kg		< 0.037 mg/kg	< 0.037 mg/kg
4-Bromophenyl phenyl ether	NA	< 0.16 ug/l	< 0.16 ug/l		< 0.020 mg/kg	< 0.019 mg/kg		< 0.019 mg/kg	< 0.019 mg/kg
4-Chloro-3-methylphenol	NA	< 0.51 ug/l	< 0.51 ug/l		< 0.046 mg/kg	< 0.045 mg/kg		< 0.045 mg/kg	< 0.045 mg/kg
4-Chloroaniline	NA	< 2.1 ug/l	< 2.1 ug/l		< 0.13 mg/kg	< 0.12 mg/kg		< 0.12 mg/kg	< 0.12 mg/kg
4-Chlorophenyl phenyl ether	NA	< 0.23 ug/l	< 0.23 ug/l		< 0.026 mg/kg	< 0.026 mg/kg		< 0.026 mg/kg	< 0.026 mg/kg
4-Nitroaniline	NA	< 0.55 ug/l	< 0.55 ug/l		< 0.026 mg/kg	< 0.026 mg/kg		< 0.026 mg/kg	< 0.026 mg/kg
4-Nitrophenol	NA	< 1.1 ug/l	< 1.1 ug/l		< 0.11 mg/kg	< 0.11 mg/kg		< 0.11 mg/kg	< 0.11 mg/kg
Acenaphthene	NA	< 0.33 ug/l	< 0.33 ug/l		< 0.032 mg/kg	< 0.031 mg/kg		0.033 j mg/kg	< 0.031 mg/kg
Acenaphthylene	NA	< 0.23 ug/l	< 0.23 ug/l		< 0.026 mg/kg	< 0.026 mg/kg		< 0.026 mg/kg	< 0.026 mg/kg
Aniline	NA	< 2.0 ug/l	< 2.0 ug/l		< 0.10 mg/kg	< 0.10 mg/kg		< 0.10 mg/kg	< 0.10 mg/kg
Anthracene	NA	< 0.34 ug/l	< 0.34 ug/l		< 0.029 mg/kg	< 0.028 mg/kg		0.065 j mg/kg	< 0.028 mg/kg
Azobenzene	NA	< 0.22 ug/l	< 0.22 ug/l		< 0.023 mg/kg	< 0.022 mg/kg		< 0.022 mg/kg	< 0.022 mg/kg
Benzidine	NA	< 17 ug/l	< 17 ug/l		< 0.83 mg/kg	< 0.81 mg/kg		< 0.81 mg/kg	< 0.81 mg/kg
Benzo(a)anthracene	NA	< 0.34 ug/l	< 0.34 ug/l		< 0.031 mg/kg	< 0.030 mg/kg		0.095 j mg/kg	< 0.030 mg/kg
Benzo(a)pyrene	NA	< 0.27 ug/l	< 0.27 ug/l		< 0.031 mg/kg	< 0.030 mg/kg		0.071 j mg/kg	< 0.030 mg/kg
Benzo(b)fluoranthene	NA	< 0.20 ug/l	< 0.20 ug/l		< 0.039 mg/kg	< 0.038 mg/kg		0.090 j mg/kg	< 0.038 mg/kg
Benzo(g,h,i)perylene	NA	< 0.24 ug/l	< 0.24 ug/l		< 0.034 mg/kg	< 0.034 mg/kg		0.035 j mg/kg	< 0.034 mg/kg
Benzo(k)fluoranthene	NA	< 0.29 ug/l	< 0.29 ug/l		< 0.036 mg/kg	< 0.035 mg/kg		0.042 j mg/kg	< 0.035 mg/kg
Benzoic Acid	NA	< 1.1 ug/l	< 1.1 ug/l		< 0.067 mg/kg	< 0.065 mg/kg		< 0.065 mg/kg	< 0.065 mg/kg
Benzyl alcohol	NA	< 0.50 ug/l	< 0.50 ug/l		< 0.14 mg/kg	< 0.13 mg/kg		< 0.13 mg/kg	< 0.13 mg/kg

Table H-2
Soil/Groundwater Sampling Results - RPD Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code Sample Date Depth Interval Depth Unit Sample Type Code	SOC5-GP1 09/02/2009		RPD Percent %	SOC5-SS10 09/10/2009		RPD Percent %	SOC5-SS1A 09/25/2009		RPD Percent %
	0.5 - 0.5 ft	0.5 - 0.5 ft		0.5 - 0.5 ft	0.5 - 0.5 ft		0.5 - 0.5 ft	0.5 - 0.5 ft	
	N	FD		N	FD		N	FD	
	Total or Dissolved								
Bis(2-chloroethoxy)methane	NA	< 0.17 ug/l	< 0.17 ug/l	< 0.024 mg/kg	< 0.024 mg/kg	< 0.024 mg/kg	< 0.024 mg/kg	< 0.024 mg/kg	
Bis(2-chloroethyl)ether	NA	< 0.16 ug/l	< 0.16 ug/l	< 0.028 mg/kg	< 0.027 mg/kg	< 0.027 mg/kg	< 0.027 mg/kg	< 0.027 mg/kg	
Bis(2-chloroisopropyl)ether	NA	< 0.18 ug/l	< 0.18 ug/l	< 0.025 mg/kg	< 0.025 mg/kg	< 0.025 mg/kg	< 0.025 mg/kg	< 0.025 mg/kg	
Bis(2-ethylhexyl)phthalate	NA	< 0.40 ug/l	< 0.40 ug/l	< 0.023 mg/kg	< 0.022 mg/kg	< 0.022 mg/kg	< 0.022 mg/kg	< 0.022 mg/kg	
Butyl benzyl phthalate	NA	< 0.34 ug/l	< 0.34 ug/l	< 0.024 mg/kg	< 0.024 mg/kg	< 0.024 mg/kg	< 0.024 mg/kg	< 0.024 mg/kg	
Carbazole	NA	< 0.24 ug/l	< 0.24 ug/l	< 0.025 mg/kg	< 0.025 mg/kg	< 0.025 mg/kg	< 0.025 mg/kg	< 0.025 mg/kg	
Chrysene	NA	< 0.25 ug/l	< 0.25 ug/l	< 0.038 mg/kg	< 0.037 mg/kg	0.095 j mg/kg	< 0.037 mg/kg		
Dibenz(a,h)anthracene	NA	< 0.21 ug/l	< 0.21 ug/l	< 0.039 mg/kg	< 0.038 mg/kg	< 0.038 mg/kg	< 0.038 mg/kg	< 0.038 mg/kg	
Dibenzofuran	NA	< 0.36 ug/l	< 0.36 ug/l	< 0.022 mg/kg	< 0.021 mg/kg	< 0.021 mg/kg	< 0.021 mg/kg	< 0.021 mg/kg	
Diethyl phthalate	NA	< 0.21 ug/l	< 0.21 ug/l	< 0.017 mg/kg	< 0.017 mg/kg	< 0.017 mg/kg	< 0.017 mg/kg	< 0.017 mg/kg	
Dimethyl phthalate	NA	< 0.22 ug/l	< 0.22 ug/l	< 0.021 mg/kg	< 0.020 mg/kg	< 0.020 mg/kg	< 0.020 mg/kg	< 0.020 mg/kg	
Di-n-butyl phthalate	NA	< 0.26 ug/l	< 0.26 ug/l	< 0.043 mg/kg	< 0.042 mg/kg	< 0.042 mg/kg	< 0.042 mg/kg	< 0.042 mg/kg	
Di-n-octyl phthalate	NA	< 0.35 ug/l	< 0.35 ug/l	< 0.029 mg/kg	< 0.028 mg/kg	< 0.028 mg/kg	< 0.028 mg/kg	< 0.028 mg/kg	
Fluoranthene	NA	< 0.36 ug/l	< 0.36 ug/l	< 0.028 mg/kg	< 0.027 mg/kg	0.23 j mg/kg	< 0.027 mg/kg		
Fluorene	NA	< 0.37 ug/l	< 0.37 ug/l	< 0.021 mg/kg	< 0.020 mg/kg	< 0.020 mg/kg	< 0.020 mg/kg	< 0.020 mg/kg	
Hexachlorobenzene	NA	< 0.19 ug/l	< 0.19 ug/l	< 0.018 mg/kg	< 0.018 mg/kg	< 0.018 mg/kg	< 0.018 mg/kg	< 0.018 mg/kg	
Hexachlorobutadiene	NA	< 0.24 ug/l	< 0.24 ug/l	< 0.038 mg/kg	< 0.037 mg/kg	< 0.037 mg/kg	< 0.037 mg/kg	< 0.037 mg/kg	
Hexachlorocyclopentadiene	NA	< 0.29 ug/l	< 0.29 ug/l	< 0.047 mg/kg	< 0.046 mg/kg	< 0.046 mg/kg	< 0.046 mg/kg	< 0.046 mg/kg	
Hexachloroethane	NA	< 0.29 ug/l	< 0.29 ug/l	< 0.032 mg/kg	< 0.031 mg/kg	< 0.031 mg/kg	< 0.031 mg/kg	< 0.031 mg/kg	
Indeno(1,2,3-cd)pyrene	NA	< 0.29 ug/l	< 0.29 ug/l	< 0.037 mg/kg	< 0.036 mg/kg	0.037 j mg/kg	< 0.036 mg/kg		
Isophorone	NA	< 0.21 ug/l	< 0.21 ug/l	< 0.020 mg/kg	< 0.019 mg/kg	< 0.019 mg/kg	< 0.019 mg/kg	< 0.019 mg/kg	
Naphthalene	NA	< 0.34 ug/l	< 0.34 ug/l	< 0.033 mg/kg	< 0.033 mg/kg	< 0.033 mg/kg	< 0.033 mg/kg	< 0.033 mg/kg	
Nitrobenzene	NA	< 0.36 ug/l	< 0.36 ug/l	< 0.034 mg/kg	< 0.034 mg/kg	< 0.034 mg/kg	< 0.034 mg/kg	< 0.034 mg/kg	
N-Nitrosodimethylamine	NA	< 0.88 ug/l	< 0.88 ug/l	< 0.037 mg/kg	< 0.036 mg/kg	< 0.036 mg/kg	< 0.036 mg/kg	< 0.036 mg/kg	
N-Nitrosodi-n-propylamine	NA	< 0.19 ug/l	< 0.19 ug/l	< 0.029 mg/kg	< 0.028 mg/kg	< 0.028 mg/kg	< 0.028 mg/kg	< 0.028 mg/kg	
N-Nitrosodiphenylamine	NA	< 0.21 ug/l	< 0.21 ug/l	< 0.021 mg/kg	< 0.020 mg/kg	< 0.020 mg/kg	< 0.020 mg/kg	< 0.020 mg/kg	
o-Cresol	NA	< 0.58 ug/l	< 0.58 ug/l	< 0.040 mg/kg	< 0.039 mg/kg	< 0.039 mg/kg	< 0.039 mg/kg	< 0.039 mg/kg	
p-Cresol	NA	< 0.73 ug/l	< 0.73 ug/l	< 0.031 mg/kg	< 0.030 mg/kg	< 0.030 mg/kg	< 0.030 mg/kg	< 0.030 mg/kg	
Pentachlorophenol	NA	< 0.55 ug/l	< 0.55 ug/l	< 0.11 mg/kg	< 0.11 mg/kg	< 0.11 mg/kg	< 0.11 mg/kg	< 0.11 mg/kg	
Phenanthrene	NA	< 0.36 ug/l	< 0.36 ug/l	< 0.022 mg/kg	< 0.021 mg/kg	0.22 j mg/kg	< 0.021 mg/kg		
Phenol	NA	< 0.53 ug/l	< 0.53 ug/l	< 0.066 mg/kg	< 0.064 mg/kg	< 0.064 mg/kg	< 0.064 mg/kg	< 0.064 mg/kg	
Pyrene	NA	< 0.44 ug/l	< 0.44 ug/l	< 0.026 mg/kg	< 0.026 mg/kg	0.17 j mg/kg	< 0.026 mg/kg		

Table H-2
Soil/Groundwater Sampling Results - RPD Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Chemical Name	Total or Dissolved	Analysis Location	Sys Loc Code	SOC4-GP4		RPD Percent %	SOC5-GP1		RPD Percent %	
			Sample Date	09/10/2009			Depth Interval	1 - 2 ft		
			Depth Unit	N	FD		Depth Unit	1 - 2 ft		
			Sample Type Code					N		
VOCs										
1,1,1,2-Tetrachloroethane	NA	Lab	< 0.033 mg/kg	< 0.031 mg/kg		< 0.28 ug/l	< 0.28 ug/l			
1,1,1-Trichloroethane	NA	Lab	< 0.041 mg/kg	< 0.039 mg/kg		< 0.17 ug/l	< 0.17 ug/l			
1,1,2,2-Tetrachloroethane	NA	Lab	< 0.031 mg/kg	< 0.029 mg/kg		< 0.13 ug/l	< 0.13 ug/l			
1,1,2-Trichloroethane	NA	Lab	< 0.046 mg/kg	< 0.044 mg/kg		< 0.19 ug/l	< 0.19 ug/l			
1,1-Dichloro-1-propene	NA	Lab	< 0.034 mg/kg	< 0.032 mg/kg		< 0.15 ug/l	< 0.15 ug/l			
1,1-Dichloroethane	NA	Lab	< 0.030 mg/kg	< 0.028 mg/kg		< 0.11 ug/l	< 0.11 ug/l			
1,1-Dichloroethylene	NA	Lab	< 0.031 mg/kg	< 0.029 mg/kg		< 0.12 ug/l	< 0.12 ug/l			
1,2,3-Trichlorobenzene	NA	Lab	< 0.083 mg/kg	< 0.078 mg/kg		< 0.47 ug/l	< 0.47 ug/l			
1,2,3-Trichloropropane	NA	Lab	< 0.066 mg/kg	< 0.062 mg/kg		< 0.24 ug/l	< 0.24 ug/l			
1,2,4-Trichlorobenzene	NA	Lab	< 0.080 mg/kg	< 0.075 mg/kg		< 0.32 ug/l	< 0.32 ug/l			
1,2,4-Trimethylbenzene	NA	Lab	< 0.025 mg/kg	< 0.024 mg/kg		< 0.17 ug/l	< 0.17 ug/l			
1,2-Dibromo-3-chloropropane	NA	Lab	< 0.071 mg/kg	< 0.067 mg/kg		< 0.60 ug/l	< 0.60 ug/l			
1,2-Dibromoethane	NA	Lab	< 0.048 mg/kg	< 0.045 mg/kg		< 0.37 ug/l	< 0.37 ug/l			
1,2-Dichlorobenzene	NA	Lab	< 0.034 mg/kg	< 0.032 mg/kg		< 0.16 ug/l	< 0.16 ug/l			
1,2-Dichloroethane	NA	Lab	< 0.031 mg/kg	< 0.029 mg/kg		< 0.18 ug/l	< 0.18 ug/l			
1,2-Dichloroethylene, cis	NA	Lab	< 0.058 mg/kg	< 0.054 mg/kg		< 0.19 ug/l	< 0.19 ug/l			
1,2-Dichloroethylene, trans	NA	Lab	< 0.028 mg/kg	< 0.026 mg/kg		< 0.29 ug/l	< 0.29 ug/l			
1,2-Dichloropropene	NA	Lab	< 0.035 mg/kg	< 0.033 mg/kg		< 0.21 ug/l	< 0.21 ug/l			
1,3,5-Trimethylbenzene	NA	Lab	< 0.019 mg/kg	< 0.018 mg/kg		< 0.18 ug/l	< 0.18 ug/l			
1,3-Dichloro-1-propene trans	NA	Lab	< 0.044 mg/kg	< 0.041 mg/kg		< 0.17 ug/l	< 0.17 ug/l			
1,3-Dichloro-1-propene, cis	NA	Lab	< 0.029 mg/kg	< 0.027 mg/kg		< 0.16 ug/l	< 0.16 ug/l			
1,3-Dichlorobenzene	NA	Lab	< 0.035 mg/kg	< 0.033 mg/kg		< 0.21 ug/l	< 0.21 ug/l			
1,3-Dichloropropane	NA	Lab	< 0.021 mg/kg	< 0.020 mg/kg		< 0.15 ug/l	< 0.15 ug/l			
1,4-Dichlorobenzene	NA	Lab	< 0.023 mg/kg	< 0.021 mg/kg		< 0.17 ug/l	< 0.17 ug/l			
2,2-Dichloropropane	NA	Lab	< 0.085 mg/kg	< 0.080 mg/kg		< 0.58 ug/l	< 0.58 ug/l			
Acetone	NA	Lab	< 0.40 mg/kg	< 0.38 mg/kg		< 2.8 ug/l	< 2.8 ug/l			
Allyl Chloride	NA	Lab	< 0.084 mg/kg	< 0.079 mg/kg		< 0.76 ug/l	< 0.76 ug/l			
Benzene	NA	Lab	< 0.019 mg/kg	< 0.018 mg/kg		< 0.093 ug/l	< 0.093 ug/l			
Bromobenzene	NA	Lab	< 0.024 mg/kg	< 0.022 mg/kg		< 0.17 ug/l	< 0.17 ug/l			
Bromochloromethane	NA	Lab	< 0.031 mg/kg	< 0.029 mg/kg		< 0.21 ug/l	< 0.21 ug/l			
Bromodichloromethane	NA	Lab	< 0.044 mg/kg	< 0.041 mg/kg		< 0.22 ug/l	< 0.22 ug/l			
Bromoform	NA	Lab	< 0.10 mg/kg	< 0.094 mg/kg		< 0.50 ug/l	< 0.50 ug/l			
Bromomethane	NA	Lab	< 0.18 mg/kg	< 0.16 mg/kg		< 0.95 ug/l	< 0.95 ug/l			
Butyl benzene	NA	Lab	< 0.040 mg/kg	< 0.038 mg/kg		< 0.32 ug/l	< 0.32 ug/l			
Butylbenzene sec	NA	Lab	< 0.013 mg/kg	< 0.012 mg/kg		< 0.22 ug/l	< 0.22 ug/l			
Butylbenzene tert-	NA	Lab	< 0.023 mg/kg	< 0.021 mg/kg		< 0.19 ug/l	< 0.19 ug/l			
Carbon tetrachloride	NA	Lab	< 0.034 mg/kg	< 0.032 mg/kg		< 0.16 ug/l	< 0.16 ug/l			
Chlorobenzene	NA	Lab	< 0.031 mg/kg	< 0.029 mg/kg		< 0.15 ug/l	< 0.15 ug/l			
Chlorodibromomethane	NA	Lab	< 0.040 mg/kg	< 0.038 mg/kg		< 0.50 ug/l	< 0.50 ug/l			
Chloroethane	NA	Lab	< 0.091 mg/kg	< 0.086 mg/kg		< 0.46 ug/l	< 0.46 ug/l			

Table H-2
Soil/Groundwater Sampling Results - RPD Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Chemical Name	Total or Dissolved	Analysis Location	SOC4-GP4		RPD Percent %	SOC5-GP1		RPD Percent %		
			09/10/2009			09/02/2009				
			Depth Interval			Depth Unit				
			1 - 2	1 - 2		N	FD			
			ft	ft						
			N	FD						
Chloroform	NA	Lab	< 0.053 mg/kg	< 0.049 mg/kg		< 0.19 ug/l	< 0.19 ug/l			
Chloromethane	NA	Lab	< 0.051 mg/kg	< 0.048 mg/kg		36 * ug/l	52 * ug/l	36.36		
Chlorotoluene o-	NA	Lab	< 0.023 mg/kg	< 0.021 mg/kg		< 0.17 ug/l	< 0.17 ug/l			
Chlorotoluene p-	NA	Lab	< 0.036 mg/kg	< 0.034 mg/kg		< 0.14 ug/l	< 0.14 ug/l			
Cumene (isopropyl benzene)	NA	Lab	< 0.029 mg/kg	< 0.027 mg/kg		< 0.17 ug/l	< 0.17 ug/l			
Cymene p- (Toluene isopropyl p-)	NA	Lab	< 0.038 mg/kg	< 0.035 mg/kg		< 0.30 ug/l	< 0.30 ug/l			
Dibromomethane (methylene bromide)	NA	Lab	< 0.058 mg/kg	< 0.054 mg/kg		< 0.30 ug/l	< 0.30 ug/l			
Dichlorodifluoromethane (CFC-12)	NA	Lab	< 0.10 mg/kg	< 0.096 mg/kg		< 0.58 ug/l	< 0.58 ug/l			
Dichlorofluoromethane (CFC-21)	NA	Lab	< 0.055 mg/kg	< 0.052 mg/kg		< 0.31 ug/l	< 0.31 ug/l			
Ethyl benzene	NA	Lab	< 0.028 mg/kg	< 0.026 mg/kg		< 0.21 ug/l	< 0.21 ug/l			
Ethyl ether	NA	Lab	< 0.060 mg/kg	< 0.056 mg/kg		< 0.53 ug/l	< 0.53 ug/l			
Hexachlorobutadiene	NA	Lab	< 0.16 mg/kg	< 0.15 mg/kg		< 0.76 ug/l	< 0.76 ug/l			
Methyl ethyl ketone	NA	Lab	< 0.15 mg/kg	< 0.14 mg/kg		< 0.67 ug/l	< 0.67 ug/l			
Methyl isobutyl ketone	NA	Lab	< 0.12 mg/kg	< 0.11 mg/kg		< 1.1 ug/l	< 1.1 ug/l			
Methyl tertiary butyl ether (MTBE)	NA	Lab	< 0.021 mg/kg	< 0.020 mg/kg		< 0.13 ug/l	< 0.13 ug/l			
Methylene chloride	NA	Lab	< 0.21 mg/kg	< 0.20 mg/kg		< 0.65 ug/l	< 0.65 ug/l			
Naphthalene	NA	Lab	< 0.081 mg/kg	< 0.076 mg/kg		< 0.40 ug/l	< 0.40 ug/l			
Propylbenzene	NA	Lab	< 0.018 mg/kg	< 0.016 mg/kg		< 0.13 ug/l	< 0.13 ug/l			
Styrene	NA	Lab	< 0.050 mg/kg	< 0.047 mg/kg		< 0.13 ug/l	< 0.13 ug/l			
Tetrachloroethylene	NA	Lab	< 0.044 mg/kg	< 0.041 mg/kg		< 0.20 ug/l	< 0.20 ug/l			
Tetrahydrofuran	NA	Lab	< 0.13 mg/kg	< 0.12 mg/kg		< 0.77 ug/l	< 0.77 ug/l			
Toluene	NA	Lab	< 0.035 mg/kg	< 0.033 mg/kg		< 0.21 ug/l	< 0.21 ug/l			
Trichloroethylene	NA	Lab	< 0.050 mg/kg	< 0.047 mg/kg		< 0.20 ug/l	< 0.20 ug/l			
Trichlorofluoromethane	NA	Lab	< 0.040 mg/kg	< 0.038 mg/kg		< 0.17 ug/l	< 0.17 ug/l			
Trichlorotrifluoroethane (Freon 113)	NA	Lab	< 0.081 mg/kg	< 0.076 mg/kg		< 0.28 ug/l	< 0.28 ug/l			
Vinyl chloride	NA	Lab	< 0.029 mg/kg	< 0.027 mg/kg		< 0.087 ug/l	< 0.087 ug/l			
Xylene m & p	NA	Lab	< 0.11 mg/kg	< 0.10 mg/kg		< 0.42 ug/l	< 0.42 ug/l			
Xylene, o-	NA	Lab	< 0.039 mg/kg	< 0.036 mg/kg		< 0.18 ug/l	< 0.18 ug/l			

Table H-2
Soil/Groundwater Sampling Results - RPD Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code	MW-E2-012		RPD Percent %	SOC4-GP4		RPD Percent %	SOC4-TT12		RPD Percent %			
	10/02/2009			09/10/2009			09/17/2009					
	Depth Interval	Depth Unit		1 - 2 ft	1 - 2 ft		0.5 - 0.5 ft	0.5 - 0.5 ft				
Sample Type Code	N	FD		N	FD		N	FD				
Chemical Name												
Pesticides												
2,4,5-TP (Silvex)	< 0.50 ug/l	< 0.50 ug/l		< 0.056 mg/kg	--		< 0.061 mg/kg	< 0.060 mg/kg				
2,4,5-Trichlorophenoxyacetic acid	< 0.50 ug/l	< 0.50 ug/l		< 0.056 mg/kg	--		< 0.061 mg/kg	< 0.060 mg/kg				
2,4-D	< 0.50 ug/l	< 0.50 ug/l		< 0.056 mg/kg	--		< 0.061 mg/kg	< 0.060 mg/kg				
2,4-DB	< 0.50 ug/l	< 0.50 ug/l		< 0.056 mg/kg	--		< 0.061 mg/kg	< 0.060 mg/kg				
4,4'-DDD	< 0.016 ug/l	< 0.016 ug/l		< 0.085 mg/kg	< 0.087 mg/kg		< 0.029 mg/kg	< 0.030 mg/kg				
4,4'-DDE	< 0.016 ug/l	< 0.016 ug/l		< 0.085 mg/kg	< 0.087 mg/kg		< 0.029 mg/kg	< 0.030 mg/kg				
4,4'-DDT	< 0.020 ug/l	< 0.020 ug/l		< 0.085 mg/kg	< 0.087 mg/kg		< 0.029 mg/kg	< 0.030 mg/kg				
a-BHC	< 0.021 ug/l	< 0.021 ug/l		< 0.085 mg/kg	< 0.087 mg/kg		< 0.029 mg/kg	< 0.030 mg/kg				
Aldrin	< 0.018 ug/l	< 0.018 ug/l		< 0.085 mg/kg	< 0.087 mg/kg		< 0.029 mg/kg	< 0.030 mg/kg				
b-BHC	< 0.016 ug/l	< 0.016 ug/l		< 0.085 mg/kg	< 0.087 mg/kg		< 0.029 mg/kg	< 0.030 mg/kg				
Bentazone	< 0.50 ug/l	< 0.50 ug/l		< 0.056 mg/kg	--		< 0.061 mg/kg	< 0.060 mg/kg				
Chlordane, alpha	< 0.016 ug/l	< 0.016 ug/l		< 0.085 mg/kg	< 0.087 mg/kg		< 0.029 mg/kg	< 0.030 mg/kg				
Chlordane, gamma	< 0.042 ug/l	< 0.042 ug/l		< 0.085 mg/kg	< 0.087 mg/kg		< 0.029 mg/kg	< 0.030 mg/kg				
d-BHC	< 0.014 ug/l	< 0.014 ug/l		< 0.085 mg/kg	< 0.087 mg/kg		< 0.029 mg/kg	< 0.030 mg/kg				
Dicamba	< 0.50 ug/l	< 0.50 ug/l		< 0.056 mg/kg	--		< 0.061 mg/kg	< 0.060 mg/kg				
Dieldrin	< 0.024 ug/l	< 0.024 ug/l		< 0.085 mg/kg	< 0.087 mg/kg		< 0.029 mg/kg	< 0.030 mg/kg				
Dinoseb (DNBP)	< 0.50 ug/l	< 0.50 ug/l		< 0.056 mg/kg	--		< 0.061 mg/kg	< 0.060 mg/kg				
Endosulfan I	< 0.021 ug/l	< 0.021 ug/l		< 0.085 mg/kg	< 0.087 mg/kg		< 0.029 mg/kg	< 0.030 mg/kg				
Endosulfan II	< 0.019 ug/l	< 0.019 ug/l		< 0.085 mg/kg	< 0.087 mg/kg		< 0.029 mg/kg	< 0.030 mg/kg				
Endosulfan Sulfate	< 0.019 ug/l	< 0.019 ug/l		< 0.085 mg/kg	< 0.087 mg/kg		< 0.029 mg/kg	< 0.030 mg/kg				
Endrin	< 0.020 ug/l	< 0.020 ug/l		< 0.085 mg/kg	< 0.087 mg/kg		< 0.029 mg/kg	< 0.030 mg/kg				
Endrin Aldehyde	< 0.040 ug/l	< 0.040 ug/l		< 0.085 mg/kg	< 0.087 mg/kg		< 0.029 * mg/kg	< 0.030 * mg/kg				
Endrin Ketone	< 0.019 ug/l	< 0.019 ug/l		< 0.085 mg/kg	< 0.087 mg/kg		< 0.029 mg/kg	< 0.030 mg/kg				
g-BHC (Lindane)	< 0.020 ug/l	< 0.020 ug/l		< 0.085 mg/kg	< 0.087 mg/kg		< 0.029 mg/kg	< 0.030 mg/kg				
Heptachlor	< 0.018 ug/l	< 0.018 ug/l		< 0.085 mg/kg	< 0.087 mg/kg		< 0.029 mg/kg	< 0.030 mg/kg				
Heptachlor Epoxide	< 0.038 ug/l	< 0.038 ug/l		< 0.085 mg/kg	< 0.087 mg/kg		< 0.029 mg/kg	< 0.030 mg/kg				
MCPA	< 0.30 ug/l	< 0.30 ug/l		< 0.056 mg/kg	--		< 0.061 mg/kg	< 0.060 mg/kg				
Methoxychlor	< 0.026 ug/l	< 0.026 ug/l		< 0.085 mg/kg	< 0.087 mg/kg		< 0.029 mg/kg	< 0.030 mg/kg				
Pentachlorophenol	< 0.50 ug/l	< 0.50 ug/l		< 0.056 mg/kg	--		< 0.061 mg/kg	< 0.060 mg/kg				
Picloram	< 0.50 ug/l	< 0.50 ug/l		< 0.056 * mg/kg	--		< 0.061 * mg/kg	< 0.060 * mg/kg				
Toxaphene	< 1.0 ug/l	< 1.0 ug/l		< 1.7 mg/kg	< 1.7 mg/kg		< 0.58 mg/kg	< 0.60 mg/kg				
Triclopyr	< 0.50 ug/l	< 0.50 ug/l		< 0.056 mg/kg	--		< 0.061 mg/kg	< 0.060 mg/kg				
Pesticides												
Acetochlor	< 0.25 ug/l	< 0.25 ug/l		< 0.046 mg/kg	--		< 0.048 mg/kg	< 0.048 mg/kg				
Alachlor (Lasso)	< 0.19 ug/l	< 0.19 ug/l		< 0.046 mg/kg	--		< 0.048 mg/kg	< 0.048 mg/kg				
Atrazine (Primatol)	< 0.24 ug/l	< 0.24 ug/l		< 0.046 mg/kg	--		< 0.048 mg/kg	< 0.048 mg/kg				
Chlorpyrifos (Lorsban)	< 0.34 ug/l	< 0.34 ug/l		< 0.046 mg/kg	--		< 0.048 mg/kg	< 0.048 mg/kg				
Cyanazine (Bladex)	< 0.48 ug/l	< 0.48 ug/l		< 0.046 mg/kg	--		< 0.048 mg/kg	< 0.048 mg/kg				
Deisopropyl atrazine	< 0.26 ug/l	< 0.26 ug/l		< 0.046 mg/kg	--		< 0.048 mg/kg	< 0.048 mg/kg				
Desethylatrazine	< 0.29 ug/l	< 0.29 ug/l		< 0.046 mg/kg	--		< 0.048 mg/kg	< 0.048 mg/kg				

Table H-2
Soil/Groundwater Sampling Results - RPD Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code	MW-E2-012		RPD Percent %	SOC4-GP4		RPD Percent %	SOC4-TT12		RPD Percent %
	10/02/2009			09/10/2009			09/17/2009		
Sample Date	N	FD	1 - 2 ft	1 - 2 ft	0.5 - 0.5 ft	0.5 - 0.5 ft			
Depth Interval			N	FD	N	FD			
Depth Unit									
Sample Type Code									
Chemical Name									
Dimethenamid	< 0.24 ug/l	< 0.24 ug/l	< 0.046 mg/kg	--		< 0.048 mg/kg	< 0.048 mg/kg		
EPTC (Eradicane)	< 0.22 ug/l	< 0.22 ug/l	< 0.046 mg/kg	--		< 0.048 mg/kg	< 0.048 mg/kg		
Ethalfluralin (Sonalan)	< 0.47 ug/l	< 0.47 ug/l	< 0.046 mg/kg	--		< 0.048 mg/kg	< 0.048 mg/kg		
Fonofos (Dyphonate)	< 0.30 ug/l	< 0.30 ug/l	< 0.046 mg/kg	--		< 0.048 mg/kg	< 0.048 mg/kg		
Metolachlor (Dual)	< 0.28 ug/l	< 0.28 ug/l	< 0.046 mg/kg	--		< 0.048 mg/kg	< 0.048 mg/kg		
Metribuzin	< 0.35 ug/l	< 0.35 ug/l	< 0.046 mg/kg	--		< 0.048 mg/kg	< 0.048 mg/kg		
Pendimethalin (Prowl)	< 0.25 ug/l	< 0.25 ug/l	< 0.046 mg/kg	--		< 0.048 mg/kg	< 0.048 mg/kg		
Phorate (Thimet)	< 0.58 ug/l	< 0.58 ug/l	< 0.046 mg/kg	--		< 0.048 mg/kg	< 0.048 mg/kg		
Prometon (Pramitol)	< 0.29 ug/l	< 0.29 ug/l	< 0.046 mg/kg	--		< 0.048 mg/kg	< 0.048 mg/kg		
Propachlor	< 0.14 ug/l	< 0.14 ug/l	< 0.046 mg/kg	--		< 0.048 mg/kg	< 0.048 mg/kg		
Propazine (Milogard)	< 0.21 ug/l	< 0.21 ug/l	< 0.046 mg/kg	--		< 0.048 mg/kg	< 0.048 mg/kg		
Simazine (Princep)	< 0.32 ug/l	< 0.32 ug/l	< 0.046 mg/kg	--		< 0.048 mg/kg	< 0.048 mg/kg		
Terbufos (Counter)	< 0.54 ug/l	< 0.54 ug/l	< 0.046 mg/kg	--		< 0.048 mg/kg	< 0.048 mg/kg		
Triallate (Far-Go)	< 0.34 ug/l	< 0.34 ug/l	< 0.046 mg/kg	--		< 0.048 mg/kg	< 0.048 mg/kg		
Trifluralin (Treflan)	< 0.21 ug/l	< 0.21 ug/l	< 0.046 mg/kg	--		< 0.048 mg/kg	< 0.048 mg/kg		
PCBs									
Aroclor 1016	--	--	--	--		< 0.25 mg/kg	< 0.25 mg/kg		
Aroclor 1221	--	--	--	--		< 0.25 mg/kg	< 0.25 mg/kg		
Aroclor 1232	--	--	--	--		< 0.25 mg/kg	< 0.25 mg/kg		
Aroclor 1242	--	--	--	--		< 0.25 mg/kg	< 0.25 mg/kg		
Aroclor 1248	--	--	--	--		< 0.25 mg/kg	< 0.25 mg/kg		
Aroclor 1254	--	--	--	--		< 0.25 mg/kg	< 0.25 mg/kg		
Aroclor 1260	--	--	--	--		< 0.25 mg/kg	< 0.25 mg/kg		

Table H-2
Soil/Groundwater Sampling Results - RPD Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code	SOC4-TT9		RPD Percent %	SOC5-GP1		RPD Percent %	SOC5-SS10		RPD Percent %	
	09/10/2009			09/02/2009			09/10/2009			
	Depth Interval	6 - 6	Depth Unit	ft	N	FD	0.5 - 0.5	ft		
Sample Type Code	N	FD								
Chemical Name										
Pesticides										
2,4,5-TP (Silvex)	< 0.050 mg/kg	< 0.049 mg/kg			< 0.56 ug/l	< 0.56 ug/l		< 0.056 mg/kg	< 0.057 mg/kg	
2,4,5-Trichlorophenoxyacetic acid	< 0.050 mg/kg	< 0.049 mg/kg			< 0.56 ug/l	< 0.56 ug/l		< 0.056 mg/kg	< 0.057 mg/kg	
2,4-D	< 0.050 mg/kg	< 0.049 mg/kg			< 0.56 ug/l	< 0.56 ug/l		< 0.056 mg/kg	< 0.057 mg/kg	
2,4-DB	< 0.050 mg/kg	< 0.049 mg/kg			< 0.56 ug/l	< 0.56 ug/l		< 0.056 mg/kg	< 0.057 mg/kg	
4,4'-DDD	< 0.075 mg/kg	< 0.072 mg/kg			< 0.018 ug/l	< 0.024 ug/l		< 0.086 mg/kg	< 0.082 mg/kg	
4,4'-DDE	< 0.075 mg/kg	< 0.072 mg/kg			< 0.018 ug/l	< 0.024 ug/l		< 0.086 mg/kg	< 0.082 mg/kg	
4,4'-DDT	< 0.075 mg/kg	< 0.072 mg/kg			< 0.022 ug/l	< 0.030 ug/l		< 0.086 mg/kg	< 0.082 mg/kg	
a-BHC	< 0.075 mg/kg	< 0.072 mg/kg			< 0.023 ug/l	< 0.032 ug/l		< 0.086 mg/kg	< 0.082 mg/kg	
Aldrin	< 0.075 mg/kg	< 0.072 mg/kg			< 0.020 ug/l	< 0.027 ug/l		< 0.086 mg/kg	< 0.082 mg/kg	
b-BHC	< 0.075 mg/kg	< 0.072 mg/kg			< 0.018 ug/l	< 0.024 ug/l		< 0.086 mg/kg	< 0.082 mg/kg	
Bentazone	< 0.050 mg/kg	< 0.049 mg/kg			< 0.56 ug/l	< 0.56 ug/l		< 0.056 mg/kg	< 0.057 mg/kg	
Chlordane, alpha	< 0.075 mg/kg	< 0.072 mg/kg			< 0.018 ug/l	< 0.024 ug/l		< 0.086 mg/kg	< 0.082 mg/kg	
Chlordane, gamma	< 0.075 mg/kg	< 0.072 mg/kg			< 0.047 ug/l	< 0.064 ug/l		< 0.086 mg/kg	< 0.082 mg/kg	
d-BHC	< 0.075 mg/kg	< 0.072 mg/kg			< 0.016 ug/l	< 0.021 ug/l		< 0.086 mg/kg	< 0.082 mg/kg	
Dicamba	< 0.050 mg/kg	< 0.049 mg/kg			< 0.56 ug/l	< 0.56 ug/l		< 0.056 mg/kg	< 0.057 mg/kg	
Dieldrin	< 0.075 mg/kg	< 0.072 mg/kg			< 0.027 ug/l	< 0.036 ug/l		< 0.086 mg/kg	< 0.082 mg/kg	
Dinoseb (DNBP)	< 0.050 mg/kg	< 0.049 mg/kg			< 1.1 ug/l	< 1.1 ug/l		< 0.056 mg/kg	< 0.057 mg/kg	
Endosulfan I	< 0.075 mg/kg	< 0.072 mg/kg			< 0.024 ug/l	< 0.032 ug/l		< 0.086 mg/kg	< 0.082 mg/kg	
Endosulfan II	< 0.075 mg/kg	< 0.072 mg/kg			< 0.021 ug/l	< 0.029 ug/l		< 0.086 mg/kg	< 0.082 mg/kg	
Endosulfan Sulfate	< 0.075 mg/kg	< 0.072 mg/kg			< 0.022 ug/l	< 0.029 ug/l		< 0.086 mg/kg	< 0.082 mg/kg	
Endrin	< 0.075 mg/kg	< 0.072 mg/kg			< 0.022 ug/l	< 0.030 ug/l		< 0.086 mg/kg	< 0.082 mg/kg	
Endrin Aldehyde	< 0.075 mg/kg	< 0.072 mg/kg			< 0.045 ug/l	< 0.061 ug/l		< 0.086 mg/kg	< 0.082 mg/kg	
Endrin Ketone	< 0.075 mg/kg	< 0.072 mg/kg			< 0.021 ug/l	< 0.028 ug/l		< 0.086 mg/kg	< 0.082 mg/kg	
g-BHC (Lindane)	< 0.075 mg/kg	< 0.072 mg/kg			< 0.022 ug/l	< 0.030 ug/l		< 0.086 mg/kg	< 0.082 mg/kg	
Heptachlor	< 0.075 mg/kg	< 0.072 mg/kg			< 0.020 ug/l	< 0.027 ug/l		< 0.086 mg/kg	< 0.082 mg/kg	
Heptachlor Epoxide	< 0.075 mg/kg	< 0.072 mg/kg			< 0.043 ug/l	< 0.058 ug/l		< 0.086 mg/kg	< 0.082 mg/kg	
MCPA	< 0.050 mg/kg	< 0.049 mg/kg			< 0.34 ug/l	< 0.33 ug/l		< 0.056 mg/kg	< 0.057 mg/kg	
Methoxychlor	< 0.075 mg/kg	< 0.072 mg/kg			< 0.029 ug/l	< 0.040 ug/l		< 0.086 mg/kg	< 0.082 mg/kg	
Pentachlorophenol	< 0.050 mg/kg	< 0.049 mg/kg			< 0.56 ug/l	< 0.56 ug/l		< 0.056 mg/kg	< 0.057 mg/kg	
Picloram	< 0.050 * mg/kg	< 0.049 * mg/kg			< 0.56 ug/l	< 0.56 ug/l		< 0.056 * mg/kg	< 0.057 * mg/kg	
Toxaphene	< 1.5 mg/kg	< 1.4 mg/kg			< 1.1 ug/l	< 1.5 ug/l		< 1.7 mg/kg	< 1.6 mg/kg	
Triclopyr	< 0.050 mg/kg	< 0.049 mg/kg			< 0.56 ug/l	< 0.56 ug/l		< 0.056 mg/kg	< 0.057 mg/kg	
Pesticides										
Acetochlor	< 0.040 mg/kg	< 0.039 mg/kg			< 0.30 ug/l	< 0.29 ug/l		< 0.046 mg/kg	< 0.046 mg/kg	
Alachlor (Lasso)	< 0.040 mg/kg	< 0.039 mg/kg			< 0.22 ug/l	< 0.22 ug/l		< 0.046 mg/kg	< 0.046 mg/kg	
Atrazine (Primitol)	< 0.040 mg/kg	< 0.039 mg/kg			< 0.28 ug/l	< 0.27 ug/l		< 0.046 mg/kg	< 0.046 * mg/kg	
Chlorpyrifos (Lorsban)	< 0.040 mg/kg	< 0.039 mg/kg			< 0.40 ug/l	< 0.39 ug/l		< 0.046 mg/kg	< 0.046 mg/kg	
Cyanazine (Bladex)	< 0.040 mg/kg	< 0.039 mg/kg			< 0.58 ug/l	< 0.56 ug/l		< 0.046 mg/kg	< 0.046 * mg/kg	
Deisopropyl atrazine	< 0.040 mg/kg	< 0.039 mg/kg			< 0.31 ug/l	< 0.30 ug/l		< 0.046 mg/kg	< 0.046 * mg/kg	
Desethylatrazine	< 0.040 mg/kg	< 0.039 mg/kg			< 0.35 ug/l	< 0.33 ug/l		< 0.046 mg/kg	< 0.046 mg/kg	

Table H-2
Soil/Groundwater Sampling Results - RPD Data
SSI/RI Report SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Sys Loc Code	SOC4-TT9		RPD Percent %	SOC5-GP1		RPD Percent %	SOC5-SS10		RPD Percent %			
	09/10/2009			09/02/2009			09/10/2009					
	6 - 6 ft N	6 - 6 ft FD		N	FD		0.5 - 0.5 ft N	0.5 - 0.5 ft FD				
Sample Type Code												
Chemical Name												
Dimethenamid	< 0.040 mg/kg	< 0.039 mg/kg		< 0.28 ug/l	< 0.27 ug/l		< 0.046 mg/kg	< 0.046 mg/kg				
EPTC (Eradicane)	< 0.040 mg/kg	< 0.039 mg/kg		< 0.26 ug/l	< 0.25 ug/l		< 0.046 mg/kg	< 0.046 mg/kg				
Ethalfluralin (Sonalan)	< 0.040 mg/kg	< 0.039 mg/kg		< 0.56 ug/l	< 0.54 ug/l		< 0.046 mg/kg	< 0.046 mg/kg				
Fonofos (Dyphonate)	< 0.040 mg/kg	< 0.039 mg/kg		< 0.35 ug/l	< 0.34 ug/l		< 0.046 mg/kg	< 0.046 mg/kg				
Metolachlor (Dual)	< 0.040 mg/kg	< 0.039 mg/kg		< 0.33 ug/l	< 0.32 ug/l		< 0.046 mg/kg	< 0.046 mg/kg				
Metribuzin	< 0.040 mg/kg	< 0.039 mg/kg		< 0.42 ug/l	< 0.40 ug/l		< 0.046 mg/kg	< 0.046 mg/kg				
Pendimethalin (Prowl)	< 0.040 mg/kg	< 0.039 mg/kg		< 0.30 ug/l	< 0.29 ug/l		< 0.046 mg/kg	< 0.046 mg/kg				
Phorate (Thimet)	< 0.040 mg/kg	< 0.039 mg/kg		< 0.70 ug/l	< 0.67 ug/l		< 0.046 mg/kg	< 0.046 mg/kg				
Prometon (Pramitol)	< 0.040 mg/kg	< 0.039 mg/kg		< 0.35 ug/l	< 0.34 ug/l		< 0.046 mg/kg	< 0.046 mg/kg				
Propachlor	< 0.040 mg/kg	< 0.039 mg/kg		< 0.17 ug/l	< 0.16 ug/l		< 0.046 mg/kg	< 0.046 mg/kg				
Propazine (Milogard)	< 0.040 mg/kg	< 0.039 mg/kg		< 0.25 ug/l	< 0.24 ug/l		< 0.046 mg/kg	< 0.046 * mg/kg				
Simazine (Princep)	< 0.040 mg/kg	< 0.039 mg/kg		< 0.38 ug/l	< 0.36 ug/l		< 0.046 mg/kg	< 0.046 * mg/kg				
Terbufos (Counter)	< 0.040 mg/kg	< 0.039 mg/kg		< 0.65 ug/l	< 0.62 ug/l		< 0.046 mg/kg	< 0.046 mg/kg				
Triallate (Far-Go)	< 0.040 mg/kg	< 0.039 mg/kg		< 0.40 ug/l	< 0.39 ug/l		< 0.046 mg/kg	< 0.046 mg/kg				
Trifluralin (Treflan)	< 0.040 mg/kg	< 0.039 mg/kg		< 0.25 ug/l	< 0.25 ug/l		< 0.046 mg/kg	< 0.046 mg/kg				
PCBs												
Aroclor 1016	--	--		--	--		--	--				
Aroclor 1221	--	--		--	--		--	--				
Aroclor 1232	--	--		--	--		--	--				
Aroclor 1242	--	--		--	--		--	--				
Aroclor 1248	--	--		--	--		--	--				
Aroclor 1254	--	--		--	--		--	--				
Aroclor 1260	--	--		--	--		--	--				