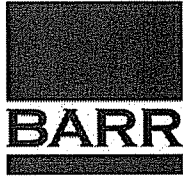


Appendix B

Updated Phase I Environmental Site Assessment Materials



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Technical Memorandum

To: UMore File 23/19 0B05.03
From: Jim Aiken and Sara Gaffin
Subject: Site Visit Notes, Field Observations and Identification of Sites of Concern for Phase II Work Plan – 9/16-17/2008
Date: November 13, 2008
Project: 23/19 0B05 RIWP 200
c: Janet Dalglish, Steven Lott

Barr Engineering conducted visual reconnaissance within the EIS project area in order to scope the Phase II Site Investigation (Phase II) for the UMore Mining Area (UMA, Figure C-1). The site visit was performed by Jim Aiken, P.G. (JSA) and Sara Gaffin, P.E (SZH) on September 16 and 17, 2008. The goal of the visit was to document potential recognized environmental conditions as well as to gather site-specific details on existing sites identified during a previous Phase I (Peer 2006), described by Dakota County, or present in various historical records provided by the University. This information, along with historical aerial photographs and environmental database records was used to identify Sites of Concern (SOCs) and sampling locations for the Phase II Work Plan. A description of each site assessed during the visual reconnaissance is included in the text below and summarized in Table C-1. Sites identified in the environmental database record review are also included in Table C-1.

General Site Visit Information:

Weather was clear and warm with temperatures in the mid-70s. JSA conducted broad reconnaissance of the project boundaries, the Railroad "Y", Poultry Research Area, the West and Southern Ag Research Complex, the Forestry Research Area, former farmsteads, and the former location of the Dairy Research Complex. This area was traversed by foot and in a 4wheel drive vehicle. A GPS track of these areas is shown on Figure C-1. A vehicle traverse was conducted along the western and southern boundary of the UMA (south on Biscayne to 170th Street and east to Station Trail) but is not shown on the GPS track.

SZH conducted a detailed visit of the Ag Engineering and Central Services buildings and surrounding areas located in the east-central portion of the study area (Figure C-2) including "AOC 5" and "AOC3-

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DA1" investigated by the US Army Corps of Engineers as well as sites 5704, 5706, 5859, 5012, 5225, and 5720 identified by County. SZH also observed the former locations of GOW-era buildings 263-C, 724-H, 707-T, 707-W, 722-P, and 220-N. No foundations or structures are currently associated with these former building locations. The traverse was conducted primarily on foot. The GPS track of the visit is shown in on Figure C-2.

Naming Conventions

In keeping with the nomenclature used by the University, we refer to site areas by their current address at the Agricultural Experiment Station included on the Structure Inventory (Appendix C6, attached), except where the building address was different than that affixed to the building as observed in the field. We also provide the GOW-era or US Army Area of Concern (AOC) names where appropriate. Existing sites of potential environmental concern (either a known release or have previously not been evaluated) have 5000-series numbers assigned by Dakota County. New sites of potential environmental concern identified by Barr have been assigned a 6000-series number. Table C-1 provides a summary of sites within the UMA, a description of observed and historical information available, as well as recommendations for those sites that present a recognized environmental condition (REC) or need for additional investigation as an SOC. The location of each site included in Table C-1 is shown on Figure C-1 and/or C-2.

JSA Observations

Western Research Complex Site #6009 (Photo JSA1) – This area consists of six buildings and is known as Agronomy area. There was no evidence of a release or spill on the ground surface observed on or in any of the buildings. Building 315 is a pump house, 306 is used for equipment storage, and 313 has some chemical fertilizer and pesticide storage. An approximately 5 foot diameter concrete cistern cap with a 4 inch hole was observed northwest of 313. The interior of the cistern appeared to be about 8 feet deep and was dry. A septic drainfield was also observed north of the 313 building. The other buildings were locked and were not accessed. The ground surface around the building exteriors showed no indication of a release.

Abandoned Elliot Farmstead; Site #5889 (Photo JSA2) – The area is heavily wooded and there is no indication of any structures or foundation. No evidence of a release.

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Ag Research LUST Release; Site #5202 (Photo JSA3) – This area is an open grass land and bean field. No indication of any structure or foundation. Review of historical data indicates that this site is actually related to site #6011 (described below in regard to LEAK site 7154) related to the north residence for former Dairy Complex building 214/215 which was about 300 feet south of the location shown on Figure C-1.

Abandoned Derham Farmstead; Site #5888 and Agricultural Land Northern Half of UMA – The area is a bean field. There is no indication of any structures or foundation. No evidence of a release. The surrounding area was traversed by vehicle within the farmed area and observed along Biscayne and CR 42. There is no evidence of a release in this agricultural area.

Railroad "Y" Site #6001 (Photo JSA 4) – There was no evidence of rails, ties, spikes, or switching plates. There was no evidence of a release observed anywhere along grade. No attempt was made to penetrate thick woods on either side of the grade. Walked the former railroad grade starting from the west side and walked down the southwest curve. Observed a sandy barren area that may have been used for a former sand and gravel pit. The rail grade starts in the west of the Y about 8 feet below ground surface on the west to about 10 feet above on the southwest. Observed an old and partially obscured culvert under the grade near the southern junction connecting either side of the grade. Walked back to northeast on grade. Slope drops off steeply to the west and east so that grade is 20 to 30 feet above surrounding ground surface heavily wooded along edges, the east side grades into pasture. Northern grade line is mowed by University up to road to test plots on open grass land to north of Y. Walked back west and then drove rest of grade out to CR 42. Generally heavily wooded, planted on either side with corn to west of Y.

South Research Complex Site #5874 and #6007 (Photo JSA 5) – Observed pesticide (fungicide) being loaded on south side of 701. Talked to Kimon Karelis of University, he said he was not aware of any previous releases, described some of the on-going research, and provided access to the buildings on the southern complex buildings. Pointed out the drainfield south of the building 703 office and indicated that the pole barn was newer. I asked about the shallow depressions west of the old pump house – he indicated that was an old wild rice test plot operated about 20 years ago. He thinks that it is lined to keep water in it but has not noticed it being particularly wet after rains. Building 702 is an old pump house that is no longer used, but is not believed to have been decommissioned.

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Building 709 is divided into two parts, with pesticide storage on south side and equipment storage/possible well pump house on the north side. There is a concrete wash pad that slopes to southwest onto a grassy area where there was at one time a 1500 gallon pesticide UST (AgSpill #14389). There is a strong pesticide odor inside. Noted an old wash basin with the drain disconnected. May have been connected to a capped sewer pipe riser in the floor with drainage to the tank or the septic located to the southeast near the office (Building 703).

South Research Complex Site #6006 (Photo JSA 6) – Observed exterior of Building 706 which was the location for a former pesticide UST excavation and clean up (AgSpill# 14388) described by (Peer 2001). Observed a wash pad on west side of building, but interior was not accessed as building was locked. Noted a 20-foot tall white tower on east side of building. Appears to be weather monitoring station.

Old Shop or Residence Site #6008 – This is a post-GOW structure noted on the 1951 and 1957 air photos, may have been a temporary structure or trailer. Currently unplanted field. No visible structures, foundations, or evidence of a release.

Suspect Disposal Areas near former Dairy Complex; Sites #5152, #6010, #6011, #6013 (Photos JSA 7, 8) – Currently open fields planted with corn and soybeans near natural depression. Performed walking traverse of 5152 and found occasional fragments of vinyl and fabric sticking up from ground surface. Also found widely scattered fragments of angular concrete and gray cherty dolomite that may be facia stone. No obvious evidence of debris, or dumping, but the fragments observed in the soil float are unusual for this otherwise cropped area. Noted an area (6013) that appears to be a flat-topped lobe extending into natural depression, but no evidence of debris. Location of former Dairy complex (ca. 1951 to about 1996) is cornfield no evidence of former structures, or releases but did find several concrete fragments.

Abandoned JA Hynes Farmstead and suspected former Manure Pit; Sites #5891 and #6012; (Photos JSA 9) – This area was moderately wooded with no evidence of former farmstead. The manure pit is inferred from 1964 air photograph which shows new construction and ditch or path south from Dairy Complex. The basin has an eastern and western sub basin separated by a berm. Area is heavily wooded to grassy. An eight inch pipe fiberglass reinforced enters from the north at the berm into the western basin at about 10 feet below grade. The eastern basin is apparently fed by a 16 inch corrugated steel culvert about 15

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feet below grade. Both pipes were dry. It should be noted that both of these locations are some 50 feet above the water table so it appears unlikely that these pipes would be drain tile.

Poultry Research Complex Site #6002 and #6003 (Photo JSA 10) – Met with Fred Hrbek, farm manager.

Visited the shop (Building 402), storage (405) and compost building (408) for the turkey research area. No evidence of releases observed some minor petroleum storage. Farm residence has septic tank. The compost building is lined with concrete and has been used since 2000. Turkey carcasses are currently disposed of off-site. Fred showed me an approximately 5 foot wide by 15 foot deep concrete pit that was used to dispose of turkey carcasses from about 1988 to 1998. Prior to 1988, and since the 1970s, carcasses were buried in a series of east-west trenches in the low area outside the UMA that the County has named Site #5006. Fred said they have never encountered anything in the soils of this area except sand and gravel, so it is unlikely that this area was used for general dumping.

Forestry Research and old GOW storage along rail line - #6004, #6005, #5262 and #5263 (Photo JSA 11)

Conducted a detailed traverse through both the wooded areas in a cornfield to the east. The supply yard was located to north and this was a loading/unloading area for GOW with a series of store houses and support buildings shown on old maps. There was a significant concentration of concrete and gray cherty facia stone in the surface soil in the cornfield to east. No evidence of a release except for the potential for rubble fill soils. Found a railroad tie in woods to south and scattered fugitive-type dumping debris in wooded area. The access road into the area is scattered with concrete fragments, bits of metal, and vitrified clay pipe – suspect disposal area or graded fill.

Abandoned Hagney Farmstead Site #5890 - Currently a bean field, no indication of remnant structures or foundations.

Abandoned MacDonough Farmstead Site #5886 - Currently an open grassy field with some gravel area used as access to pipeline vents which are visible in right of way. No indication of remnant structures or foundations.

Rental Home and former Farmstead #5878 (JSA 12) – Currently a single family home. Well noted in front yard. Old concrete silo in wooded area to north, some junk in the yard, no evidence of release. Also traversed area to east shown on maps to have other unknown storage structures. No indication of release.

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Suspect Topography Near Natural Drainage #6013 – This area consists of an approximately one-acre flat topped land surface adjacent to a natural depression. The steep eastern edge resembled a possible dump area. However, review of historical aerial photographs indicate that the steep edges are likely a natural feature consistent with the geologic interpretation of the area as pitted outwash with glacial ice-block melt depressions.

Off-site Areas – Viewed industrial area to west of Biscayne. Mainly office buildings. Dakota Fence has large yard area closest to property. The AAA Auto and UPull-R-Parts automobile salvage yard is located about 800 feet west of Biscayne along with several warehouses. No obvious indications of possible releases to groundwater were observed from the frontage road that could affect subject site. No RECs noted.

SZH Observations

Former K Street Dump #5225 (Photo SZH 1) – This area is currently wooded with some rubble visible on the ground surface. Debris was obscured by heavy vegetation during the site visit. The extent of the dump is distinguishable in aerial photographs and in the field by the higher topography and a change in vegetation from surrounding areas. According to information provided by Dakota County, the dump was likely a borrow area for GOW and was filled with GOW demolition debris. The dump was encountered during construction of County Road 46 and the northern limits of the dump are reportedly located in the south right-of-way.

Ag Engineering, Former Waste Lagoon #5012 (Photo SZH 2) – This area is currently vacant grassland with sparse small trees and is topographically lower than surrounding areas. According to staff interviewed onsite, the area was used as an animal waste lagoon. Building 1006 was formerly a poultry barn and a manhole on the southwest building corner reportedly drains to an outlet pipe observed in the lagoon during the site reconnaissance. An approximate 3-foot diameter concrete cistern raised approximately 2.5 feet above ground surface was observed on the eastern side of the lagoon.

Former GOW Building Remnants #6015 (Photo SZH 3) – No buildings or foundation remnants were observed during the site reconnaissance. Locations 263-C, 724-H, 707-T, 707-W, 722-P, and 220-N were inspected (Figure C-2). The area is planted with peas and ground surface visibility was good to fair based on the crop heights during the time of the site visit. Vegetation was sparse near former building 220-N.

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(see Photo). Several research stations and a large research tower are located in the fields surrounding the former GOW building locations. William Breiter was interviewed during the site visit and he was not aware of any foundations or buildings in the GOW building locations shown on Figure C-2. Mr. Breiter has worked at the Ag Engineering Complex since 1993.

Ag Engineering Complex #5859 and #6014 (Photo SZH 4) – The Ag Engineering Complex includes ten buildings, two concrete pads, and several research trailers. The complex is currently used as a research station and for agricultural equipment storage. William Breiter was interviewed during the site visit and he has worked as a technician and research assistant on the property since 1993. The former Kane farmstead (#5859) is the western portion of the complex and includes five buildings (1003, 1004, 1009, 1010, 1012), two propane tanks, four potential wells, an empty fuel oil AST (south of building 1004) and one concrete pad fitted with research equipment (solar panels, rain gauges, etc.). The wells observed were above grade standpipes with attached hand valves and according to Mr. Breiter the water is reportedly used for hand washing and other non-potable uses. According to University staff, there is also a well located in building 1010 that is believed to be impacted by pesticides and is not potable. Building 1003 was not accessible during the site visit but is listed in historical reports as a well/pump house. Building 1009 is actively used for office and research space and storage of computer and research equipment. Building 1009 was inspected during the site visit and no spills or releases were observed. Most of the other buildings were locked and were not accessed, are not actively used, or are used for agricultural equipment storage. There was no evidence of a release or spill on the ground surface observed on or in any of the buildings inspected. The ground surface around the building exteriors and AST showed no indication of a release.

Five additional buildings (1001, 1002, 1006, 1007, 1008), three potential wells (standpipes with hand valves) and several research trailers are located in the central portion of the Ag Engineering Complex. Building interiors of 1002, 1006, 1007 were observed; 1008 and 1001 were not assessable. There was no evidence of a release or spill on the ground surface observed on or in any of the buildings. Several shingles were observed on the ground surface surrounding building 1008 and two empty and rusted 55-gallon drums were located south of this building. 55-gallon drums stored on a pallet were observed west of building 1007 and were labeled “carbon vegetable origin”. The ground surface around the building exteriors showed no indication of a chemical or petroleum release.

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Central Services #5705, #5011 (Photo SZH 5) – Central Services is the location of twenty-two buildings, including eight former DNT igloos (Site 5705). The DNT igloos were historically used for storage of explosive chemicals and gunpowder. Based on the site reconnaissance, the current building uses are as follows: maintenance garage (610); grain elevator and silos (624); truck scale (620); pump house (625, south of 620); chemical storage areas (606, 611); storage for agricultural equipment, crops, supplies, and products (602, 603, 604, 605, 607, 608, 609, 612, 615, 617, 618, 619, 621, 623); and office/research space (601, 622). Minor staining was observed on the concrete ground surface in Buildings 602 and 611 (see Photo). Three ASTs used for storage of diesel, unleaded fuel and used oil were observed near Buildings 622 and 610. The ASTs were located on concrete pads and no evidence of recent spills or staining was observed on the ground surface surrounding the tanks. Vent pipes possibly associated with a septic system were observed east of Building 610. Four propane tanks and an approximately 3-foot diameter cistern were observed east of building 619. The interior of the cistern was moist and an outlet pipe into the structure was plugged with a water bottle. 2-inch diameter vent pipes were also observed south of building 624. Most of the buildings were locked and were not accessed during the site visit. Except as noted above, there was no evidence of a release or spill on the ground surface observed on or in any of the buildings inspected.

The igloos were observed in various stages of repair/restoration and all are actively used by the University for storage or operations. Igloos/Buildings 601, 605 and 608 have been converted to two-story structures; Buildings 602, 606, 607 have been upgraded with metal siding and new roofs; and Buildings 603 and 604 are used for exterior storage and only the concrete pads and walls from the original igloo structures are intact. According to information provided by Dakota County, the igloos were originally one-story concrete structures. The outside of several of the igloos were coated with tar paper and in some cases the tar paper was peeling and pieces were observed on the ground surface surrounding the buildings.

All of the igloos were constructed with open 6-inch gutters on the north and south sides of the building interiors that drain towards dry wells/sumps located on the west side of the gutters (see Photo). The gutters and sumps were observed in the accessible igloos during the site visit (Buildings 602, 603, 604). According to Dakota County information, the sumps are vertical 6-inch diameter tiles set three feet below ground and filled with gravel. No other floor drains or drainage systems were observed in the igloos

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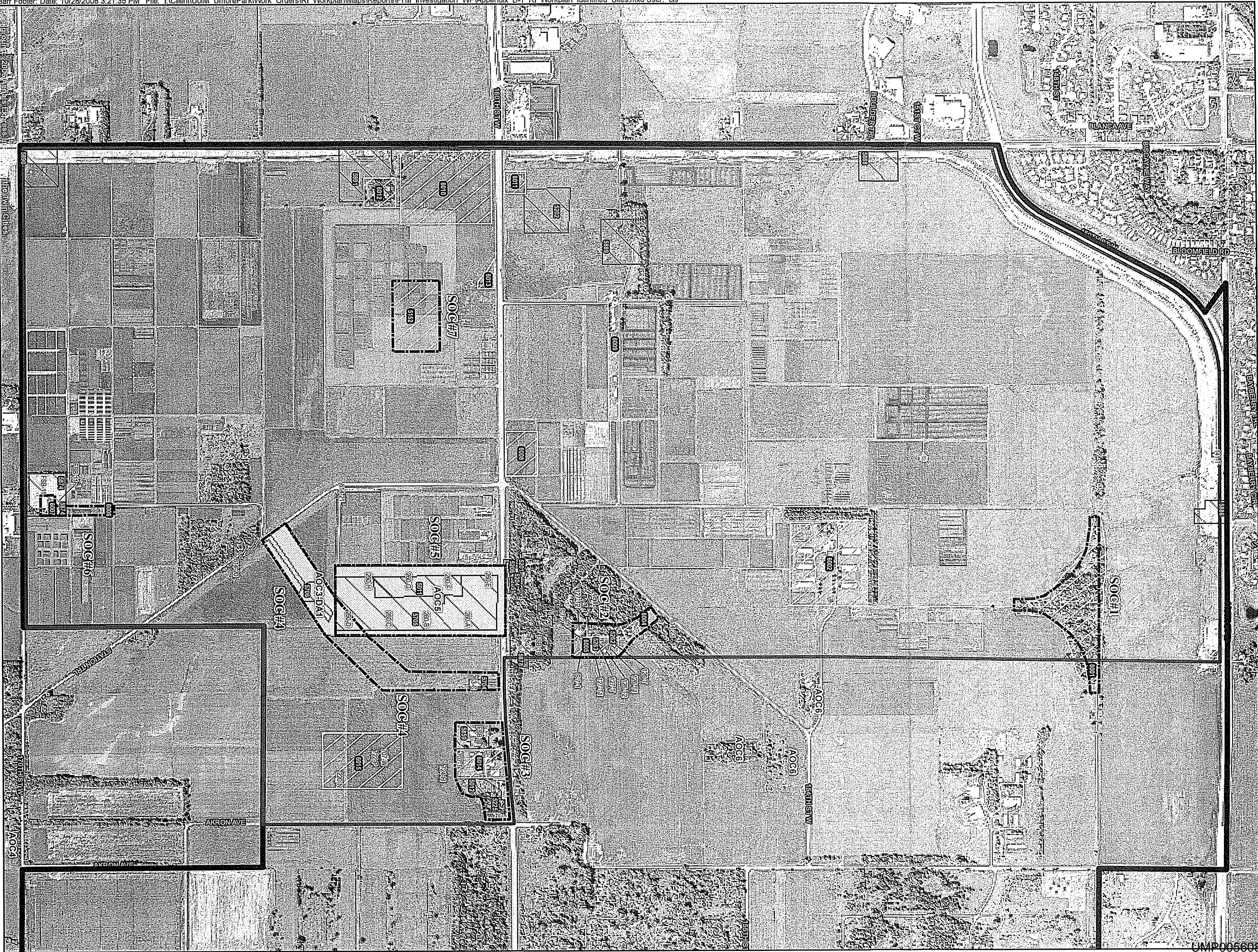
during the site reconnaissance. Historical reports noted a release of DNT in drains inside Buildings 608, 601, and 602 (260-A, E, and F).

Dakota County Site ID #5011 relates to a pesticide release discovered during removal of a former rinsate UST located south of Building 621. During the site visit, fill was visible in the location of a former corrective action excavation near the former pesticide rinsate lagoon (see Figure C-2) and an abandoned monitoring well was observed south of Building 621. According to a report prepared by Peer in 2001, corrective actions and several additional investigations were conducted in the 1990s and early 2000s in response to the pesticide release. According to the Peer report, impacts from the release migrated in an easterly direct and pesticide concentrations showed stable or generally decreasing trends. Building 621 and the surround area is currently used for storage of gardening and landscaping supplies.

DNT West Drainage Ditch #5706, AOC-DA1 (Photo SZH 6) – The drainage ditch reportedly received surface drainage from both the DNT igloo area and the DNT unloading platform. The ditch opened into a depression that acted as a stormwater retention pond and infiltration basin south of the Central Services area. Concrete rubble, field stones and other miscellaneous debris was observed in the southwest portion of the ditch. The location of the former retention pond is currently planted with corn and could not be inspected during the site visit. No evidence of stressed vegetation was observed along the ditch.

DNT Unloading Platform Former Unloading Area #5704 – According to information provided by Dakota County, the DNT unloading platform was used to receive barrels of DNT by rail. The barrels were then transferred to trucks and hauled to storage bunkers. No evidence of the former pads or rails was observed during the site reconnaissance and the railroad bed was overgrown with grass. A drainage ditch is located parallel to the railroad bed and no evidence of stressed vegetation or debris was observed along the drainage ditch.

Off-site Areas – Dakota County Site #5720 located north of County Road 42 and outside of the UMA, was observed during the site visit. The ground surface in this area was uneven and seemed consistent with fill grading and placement. Some surface debris consistent with highway litter was also observed.



Umore Mining Area (UMA)

Umore Park Boundary

Site of Concern (SOC) Boundary

Identified Site (Peer)

Identified Site (Bar)

Identified Site (Dakota Co.)

USACE AOCs (based on Baywest 2008)

Former GOW Building (location from Dakota Co.)

Appendix C-1

SUMMARY OF IDENTIFIED SITES

Umore Mining Area
 Phase II Investigation Work Plan
 Dakota County, MN

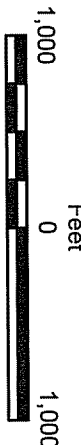


TABLE C-1
SUMMARY OF SITES OF CONCERN (SOCs)
 UMore Mining Area, Phase II Investigation Work Plan
 Dakota County, Minnesota

ID#	Name	Other Names	Source	Map QuickFind (Figure C-1)	Associated Buildings or Area (G=GOW)	Description and Site Visit Notes	REC (Y/N)	SOC Designation
5011	Pesticide Release, AES Haz Waste Generator Disposal; Shops	Former Pesticide Rinsate Lagoon, Central Services, AOC5	Dakota County, 2008; Peer, 2001	D-2	621	Pesticide release discovered during removal of a former rinsate UST. Corrective actions and several additional investigations were conducted in the 1990s and early 2000s. During site visit, fill was visible in the location of a former corrective action excavation and an abandoned monitoring well was observed.	Y	SOC 5
5012	Former Lagoon, AES Disposal and Ag Spills		Dakota County, 2008	D-2		East side of Ag Engineering	Y	SOC 5
5152	AES Disposal	Possible Dairy Complex Dump	Dakota County, 2005	D-1		Eliminated from GIS update in 2008; however evidence of concrete and fabric in soil float in cornfield observed by Barr in 2008.	Y	SOC 7
5201	Rosemount Ag Center LUST	LEAK#4759	Dakota County; EDR	Unknown	Unknown	Closed 1/21/93. 70 cy gasoline removed. No remaining contamination. One of several sites listing the admin building address, however no fuel has apparently been stored at that location.	N	NA
5202	UST Leak at Dairy Complex Residence/Shop	LEAK#7154, Building 214/215, 6011	Peer 2006;EDR	C-1	At the Dairy complex Residence. Coordinates in the MPCA database are 300 feet off to the north.	Investigated and closed 9/94. STS (1994) investigated leak of fuel into basement of rental home and into drainfield. Soil borings indicated low level DRO at surface but no BTEX. Borings in drainfield were non-detect in soil below two feet.	N	NA
5204	Service Center LUST	LEAK#2529	Peer 2006;EDR	D-2		Investigated and Closed 10/94. 180 cy of leaded gasoline removed. Soil contam.may remain. Concluded no GW contamin.	Y	SOC 5
5205	Agronomy Unit LUST	LEAK#4758	EDR, Peer 2001	C-1	313 and 315	Investigated and Closed 1/93. 21 cy gasoline removed no remaining	N	NA
5206	AES LUST	LEAK#7504	Dakota County	Unknown	Unknown	Invest. And closed 9/95 9 cy diesel soil removed, suspect remaining soil may be contam. Geocoded to admin building but no tanks were present at this location.	N	NA
5225	"K" Street Dump		Dakota County; 2005,2008	D-3	Akron and CR46 SW side	Post 1945 dump, likely used for GOW demolition. Raised, hummocky topography and some rubble visible, otherwise heavily vegetated. CR 46 was realigned to north to avoid.	Y	SOC 3
5262	Store House North	Forestry Research Area	Dakota County, 2008	C-3	G126-T2	GOW dock for storehouse near excess material storage area; remnant concrete in soil float	Y	SOC 2
5263	Store Houses South	Forestry Research Area	Dakota County, 2008	C-3	G127-T, 127-T1	Two GOW storehouses near excess material storage area; remnant concrete in soil float	Y	SOC 2
5704	DNT Unloading Platform		Dakota County, 2005, 2008	D-3	G263-C	Located along railway, visible from 1945 to 1957 air photos, includes north part of drainage to 5706	Y	SOC 4
5705	DNT Igloos	DNT storage bunkers, Central Services, AOC5, LEAK#2529	Peer 2006; USACE 2008, Dakota County, 2008, Barr Field.	D-3	G260-A to D (east row from northeast corner); E to H from nw corner; U Buildings 608-605; 601-604	Stored DNT and DPA; DNT powder in gutter drains noted by Jefferds (4/47) in E and F. Smokeless powder in floordrain at A. Drains are possible Class V injection wells.	Y	SOC 5
5706	DNT West Drainage Ditches	AOC3-DA1	USACE 2008, Dakota County, 2008, Barr Field.	D-3	Drainage from DNT loading/storage	Large ditches drained the DNT loading platform and the DNT Igloo areas - combined to a basin south of Igloos. Currently filled, but the final 500 feet north of Patrol Road still visible and has some rubble dumped in it.	Y	SOC4
5859	Ag Engineering - West	Old Margaret Kane Farm	Dakota County, 2008	D-3	1003, 1004, 1009, 1010, 1012	includes five buildings, two propane tanks, four potential wells, an empty fuel oil AST, and concrete pad fitted with research equipment and an old poultry manure pit.	Y	SOC3
5874	Former Hynes Farmstead	Southern Complex	Dakota County 2008	E-2		No evidence of farmstead, current Plant Pathology, Former Wild Rice basins	Y	SOC6
5878	Single Family Home	Former Witterlund Farmstead	Dakota County 2008	C-3		Single family home with a well in front yard. Old concrete silo in wooded area to north, some debris in the yard.	N	
5886	Former McDonough Farmstead		Dakota County, 2008	A-2	Northern edge of UMA	Abandoned farmstead located north of RR Y along CR 42. Currently open land along pipeline easement. No visible remains.	N	
5888	Former Derham Farmstead		Dakota County, 2008	B-1		No visible remains. Currently a bean field	N	
5889	Former Elliot Farmstead		Dakota County 2008	C-2	301	301 Demolished after 1991	N	
5890	Former Hagney Farmstead		Dakota County, 2008	E-1		Mostly demolished after 1945; currently beanfield	N	

TABLE C-1
SUMMARY OF SITES OF CONCERN (SOCs)
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 Dakota County, Minnesota

ID#	Name	Other Names	Source	Map QuickFind (Figure C-1)	Associated Buildings or Area (G=GOW)	Description and Site Visit Notes	REC (Y/N)	SOC Designation
5891	Former J.A. Hynes Farmstead	Near 6012	Dakota County	D-1		Buildings present until mid-60's.	N	
6001	Railroad "Y"		USACE PA, Air Photos, Barr Field.	A-2		Former heavy gauge railroad junction and mainline into and out of GOW. No known records of incidents, however given the rail traffic during the period there was potential for a railcar spill.	Y	SOC1
6002	Poultry Research	Associated with 6003	Barr Field Identification	B-2	401 to 413	Poultry research complex; some minimal petroleum storage, a compost building, no evidence of actual or threat of a release.	N	NA
6003	Carcass Dump		Barr Field Identification	B-3		Not within UMA. Dead turkeys disposed of in east west trenches from 70s to late 90s; bones visible on surface, no other debris encountered.	N	NA
6004	Forestry Research Disturbed Area		Barr Field/Air Photo	C-2, C-3		Disturbed area on 1945 air photo; visual observation of vitrified clay pipe and concrete on ground.	Y	SOC2
6005	Possible Building Remnants	5262, 5263	Barr Field/Air Photo	C-3	G127-T, G127-T1, G127-T2, GS-7-1	Cluster of former GOW storehouses along railroad tracks and near a possible dump area.	Y	SOC2
6006	Building 706 Wash Pad	AG Spills #14388	Peer 2006, EDR, Barr Field	E-2	706	Previous release investigation excavation of 20 cy to seven feet in 1994. Site closed in 2002. Wash pad still used for rinsing tanks and equipment.	Y	SOC6
6007	Building 709 Wash Pad/Storage	AG Spills #14389	Peer 2006, EDR, Barr Field	E-2	709	Previous release investigation excavation of 20 cy to seven feet in 1994. Site closed in 2002. Wash pad still used for rinsing tanks and equipment.	Y	SOC6
6008	Unknown Post-GOW Facility		Air Photo	C-2		Present in 1951 photo, abandoned by 1957. Demolished by 1964.	N	NA
6009	Western Research Complex	Agronomy. Ag Spills #4783	Barr Field, EDR	C-2	315 (well house) and 313 (office/shop w/ fertilizer and pesticide storage)	EDR indicates site closed on 8/2002. No other details indicated.	N	NA
6010	Former Dairy Complex		Air Photos, Barr Field, U of M summary info.	D-1	201 to 223	Buildings present 1951 to at least late 1990s.	N	NA
6011	Residence Associated with Dairy	Possibly associated with LEAK #7154 & 5202	Air Photos	C-1	214/215	Buildings present 1951 to at least late 1990s.	N	NA
6012	Possible Manure Basin for dairy complex		Air Photos, Barr Field	D-1		Connection with dairy complex suggests possible manure pit. Small pit and ditch visible in 1951; Larger basin constructed by 1964. Has two sep. basins separated by berm. East basin fed by 16 inch culvert; west basin fed by 8 inch Fiberglass Ref. pipe.	N	NA
6013	Possible Fill Area		Barr Field Identification	D-1	South of CR 46	Small flat steep-sided area extending into natural depression. Review of air photos indicates likely a natural feature.	N	NA
6014	Ag Engineering East	Associated with 5859 and 5012	Barr Field Identification	D-3	1001, 1002, 1006, 1007, 1008	Five buildings, three potential wells (standpipes with hand valves), and several research trailers located in the central portion of the Ag Engr Complex. Large open area to the southeast was former chicken manure lagoon.	Y	SOC3
6015	Building Remnants		Barr Field Identification	D-3	G724-H, G707-W, G707-P, and G220-N	No visible remains. Currently a bean field. Growth is sparse in suspected building locations.	N	NA

Photographic Log

Visual Site Reconnaissance - UMore Mining Area UMore Park, Dakota County, Minnesota

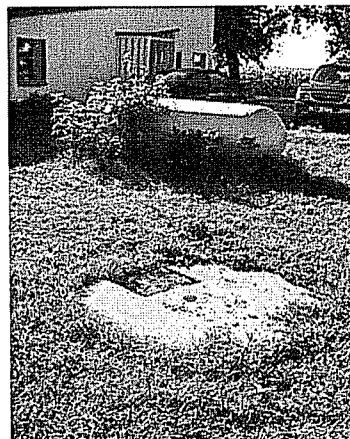
September 16 and 17, 2008

Photo #	Comments	
---------	----------	--

JSA 1 West Research Complex Site #6009

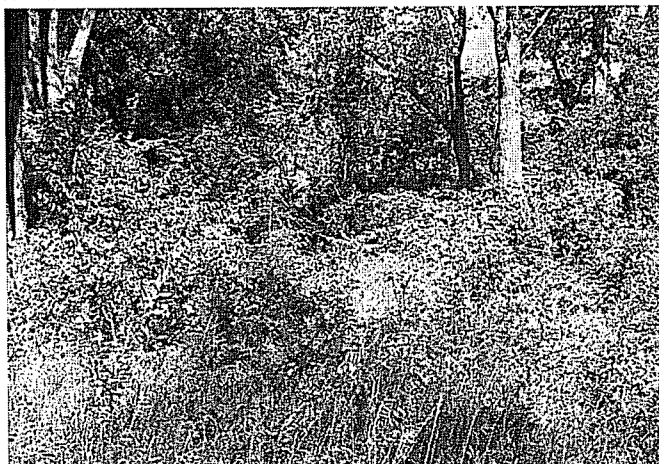


Office building 313 view to east.



Concrete cistern west of Bldg 313.

JSA 2 Former Elliot Farmstead 5889



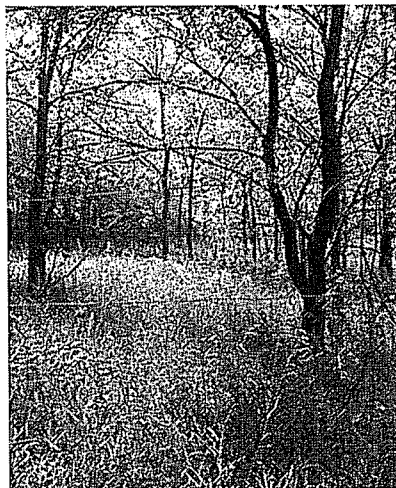
View to north of former farmstead location.

JSA 3 Ag Research LUST 7154 Site #5202

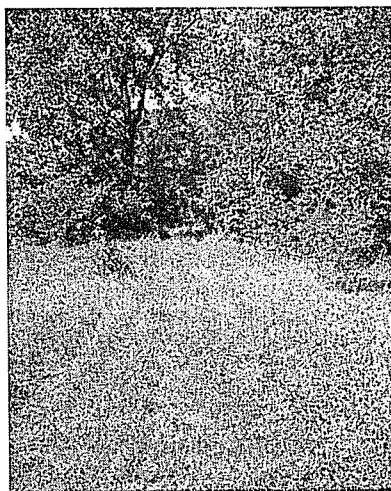


View to southeast from mapped location. It is likely that the LEAK site was about 300 feet to the south of this location.

JSA 4 Railroad Y #6001



Typical view inside Y on west



View to east along former grade

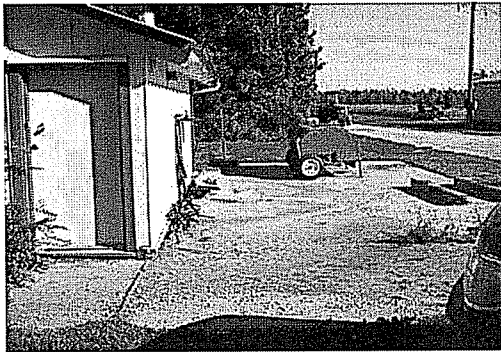
JSA 5 South Research Complex #5874 and #6007



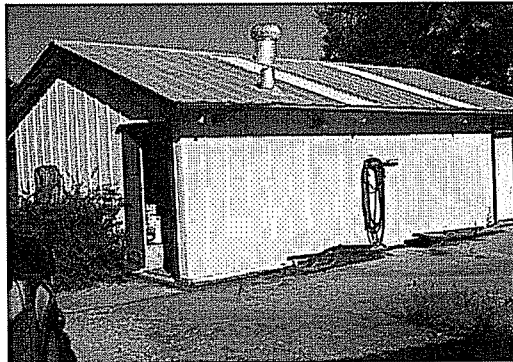
Pesticide storage inside Bldg 709



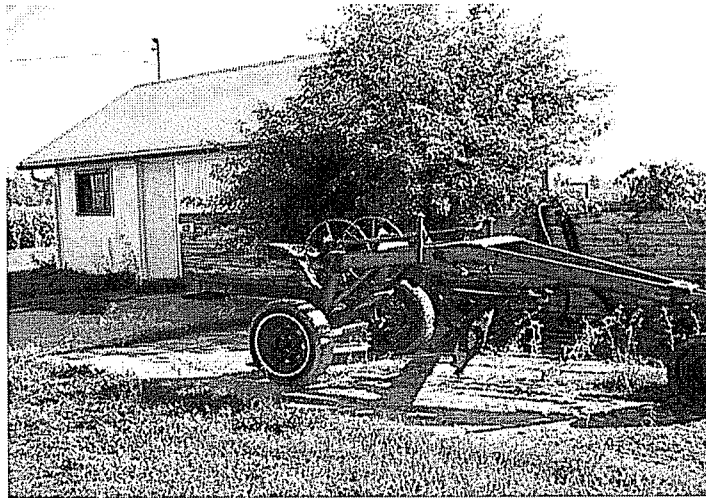
Wash basin inside Bldg 709



Building 709 Pesticide storage bldg and wash pad.

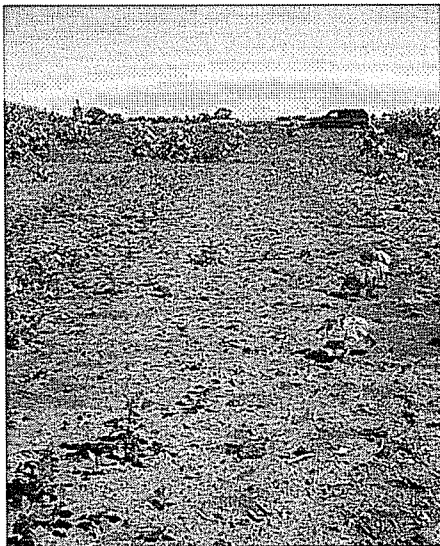


JSA 6 South Research Complex #5874 and #6007



Wash pad outside of Bldg 706

JSA 7 Suspect Disposal Areas near former Dairy Complex; Sites 5152, 6013, 6010



Stressed vegetation and debris float visible within 5152 area.

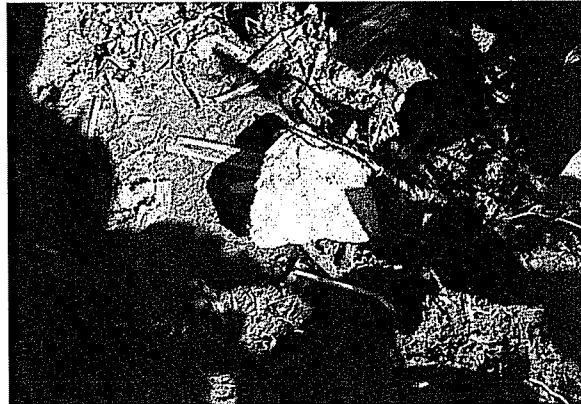


Partially buried vinyl and fabric debris

JSA 8 Suspect Disposal Areas near former Dairy Complex; Sites 5152, 6013, 6010



Concrete Debris on West side of 5152 area.

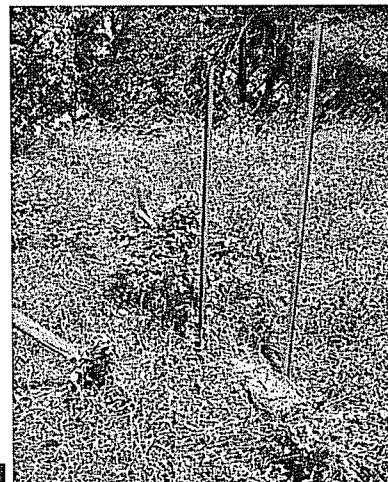


Concrete debris near center of 5152 area.

JSA 9 Abandoned JA Hynes Farmstead and old Manure Pit; Sites 5891 and 6012



Location of old Farmstead looking east.



Four inch pipe daylighting in west side of berm into west basin.

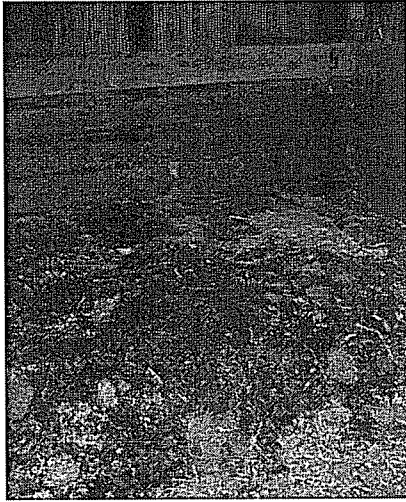


Close up of west pipe.



16 inch culvert leading to east basin.

JSA 10 Poultry Research Complex Site #6002 and #6003



Turkey waste compost pile in Bldg 408



Former turkey carcass dump east of Poultry Research (east of UMA boundary).

JSA 11 Forestry Research and old GOW storage along rail line -#6004, #6005, 5262 and 5263



Close up of surface debris in north portion of Forestry Research area.



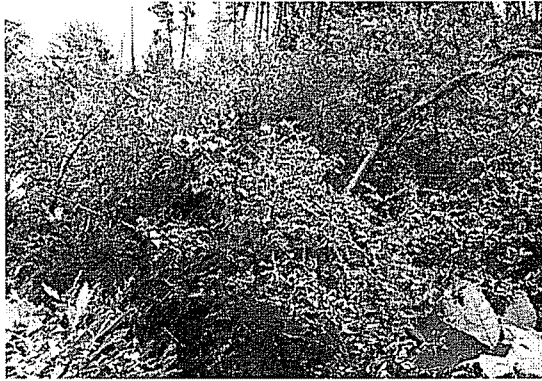
View to south of Forestry research area.

JSA 12 Rental Home and former Wetterlund Farmstead #5878



Base of old silo on north side of property.

SZH 1 Former K Street Dump Site 5225



View of debris obscured by heavy vegetation.

SZH 2 Ag Engineering Complex, Former Waste Lagoon Site 5012



Concrete cistern in former animal waste lagoon west of K street dump area.



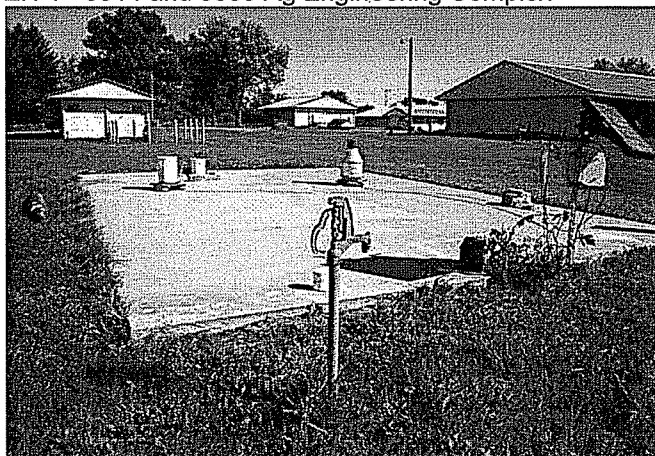
View to north of former chicken waste lagoon located south Ag Engineering Complex

SZH 3 - 6015 Building Remnants south of Ag Engineering



View to south of remnant building locations, note poor plant density.

SZH 4 - 6014 and 5859 Ag Engineering Complex

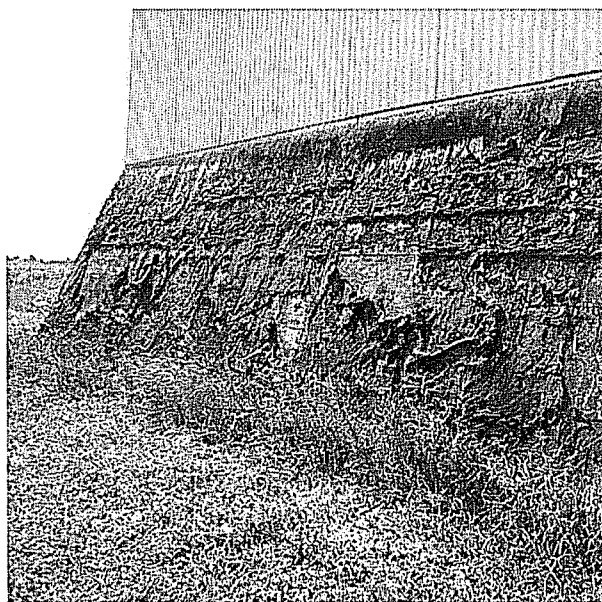


View to northeast of fuel oil AST, weather monitoring equipment and possible well at Ag Engineering.

SZH 5 - Central Services 5705, 5011



Exterior view of former DNT storage bunker now used for storage.



Remnant tar coating on exterior walls of DNT bunkers.



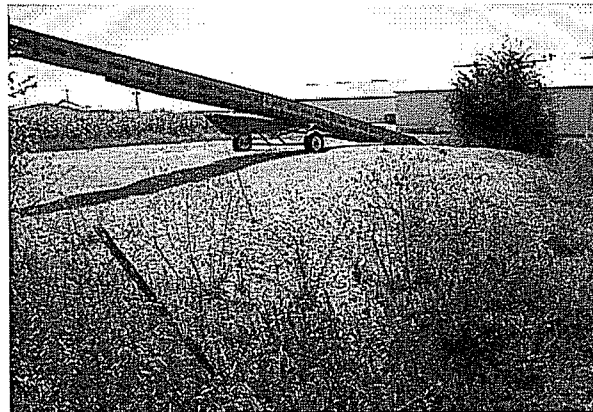
Former monitoring well location near past pesticide tank release area.



Petroleum storage inside Building 611. Note staining along left edge of floor slab.



Interior drain gutter and French drain/sump (also known as dry well) in corner of partially demolished DNT storage bunker.



Conveyor parked on former pesticide rinsate lagoon excavation area.

SZH 6 - Debris in Ditch off of AOC3 -DA1 south of AOC 5.



Debris in drainage ditch. This drainage is part of AOC 3-DA1 investigated in Army FSI.



Close up of rubble debris in drainage ditch.

UMore Park

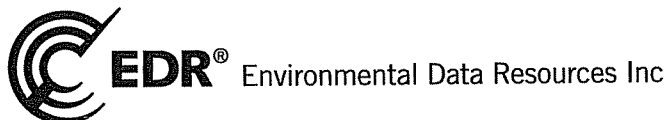
UMore Park

Rosemount, MN 55068

Inquiry Number: 02318400.1r

September 15, 2008

The EDR Radius Map™ Report with GeoCheck®



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Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

_UMP005623

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

UMORE PARK
ROSEMOUNT, MN 55068

COORDINATES

Latitude (North):	44.721000 - 44° 43' 15.6"
Longitude (West):	93.104800 - 93° 6' 17.3"
Universal Transverse Mercator:	Zone 15
UTM X (Meters):	491699.9
UTM Y (Meters):	4951746.0
Elevation:	950 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	44093-F1 COATES, MN
Most Recent Revision:	1993
West Map:	44093-F2 FARMINGTON, MN
Most Recent Revision:	1993

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

FEDERAL RECORDS

NPL.....	National Priority List
Proposed NPL.....	Proposed National Priority List Sites
Delisted NPL.....	National Priority List Deletions
NPL LIENS.....	Federal Superfund Liens
CERCLIS.....	Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP.....	CERCLIS No Further Remedial Action Planned
LIENS 2.....	CERCLA Lien Information

EXECUTIVE SUMMARY

CORRACTS.....	Corrective Action Report
RCRA-TSDF.....	RCRA - Transporters, Storage and Disposal
RCRA-LQG.....	RCRA - Large Quantity Generators
US ENG CONTROLS.....	Engineering Controls Sites List
US INST CONTROL.....	Sites with Institutional Controls
ERNS.....	Emergency Response Notification System
HMIRS.....	Hazardous Materials Information Reporting System
DOT OPS.....	Incident and Accident Data
US CDL.....	Clandestine Drug Labs
US BROWNFIELDS.....	A Listing of Brownfields Sites
DOD.....	Department of Defense Sites
FUDS.....	Formerly Used Defense Sites
LUCIS.....	Land Use Control Information System
CONSENT.....	Superfund (CERCLA) Consent Decrees
ROD.....	Records Of Decision
UMTRA.....	Uranium Mill Tailings Sites
DEBRIS REGION 9.....	Torres Martinez Reservation Illegal Dump Site Locations
ODI.....	Open Dump Inventory
MINES.....	Mines Master Index File
TRIS.....	Toxic Chemical Release Inventory System
TSCA.....	Toxic Substances Control Act
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS.....	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS.....	Section 7 Tracking Systems
ICIS.....	Integrated Compliance Information System
PADS.....	PCB Activity Database System
MLTS.....	Material Licensing Tracking System
RADINFO.....	Radiation Information Database
RAATS.....	RCRA Administrative Action Tracking System
SCRD DRYCLEANERS.....	State Coalition for Redediation of Drycleaners Listing

STATE AND LOCAL RECORDS

SHWS.....	Superfund Site Information Listing
MN PLP.....	Permanent List of Priorities
SRS.....	Site Remediation Section Database
MN DEL PLP.....	Delisted Permanent List of Priorities
LCP.....	Closed Landfills Priority List
LIENS.....	Environmental Liens
INST CONTROL.....	Site Remediation Section Database
VIC.....	Voluntary Investigation and Cleanup Program
DRYCLEANERS.....	Registered Drycleaning Facilities
BROWNFIELDS.....	Petroleum Brownfields Program Sites
ENF.....	Generators Associated with Enforcement Logs
MN HWS Permit.....	Active TSD Facilities
MDA LIS.....	Licensing Information System Database Listing

TRIBAL RECORDS

INDIAN RESERV.....	Indian Reservations
INDIAN ODI.....	Report on the Status of Open Dumps on Indian Lands
INDIAN LUST.....	Leaking Underground Storage Tanks on Indian Land
INDIAN UST.....	Underground Storage Tanks on Indian Land
INDIAN VCP.....	Voluntary Cleanup Priority Listing

EXECUTIVE SUMMARY

EDR PROPRIETARY RECORDS

Manufactured Gas Plants..... EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

FEDERAL RECORDS

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 08/20/2008 has revealed that there are 3 RCRA-SQG sites within approximately 1.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
ALLISON SPECIALTY COMPONENTS -	2605 160TH ST W STE 114	1/2 - 1 WSW C12		49
<i>CARLSON TRACTOR AND EQUIPMENT</i>	<i>15125 S ROBERT TRL</i>	<i>1 - 2 WNW 40</i>		<i>151</i>
<i>MASTER TRANSMISSION INC</i>	<i>14805 S ROBERT TRL</i>	<i>1 - 2 NW N50</i>		<i>206</i>

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 08/20/2008 has revealed that there are 17 RCRA-CESQG sites within approximately 1.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
DAKOTA FENCE OF MINNESOTA INC	15953 BISCAYNE AVE W	1/2 - 1 WSW B9		45
<i>METROPOLITAN MOSQUITO CONTROL</i>	<i>2695 160TH ST W</i>	<i>1/2 - 1 WSW D15</i>		<i>59</i>
<i>DAKOTA COUNTY TRANSPORTATION</i>	<i>2800 160TH ST W</i>	<i>1/2 - 1 WSW F22</i>		<i>107</i>
<i>COMMERCIAL MILLWORK SOLUTIONS</i>	<i>15051 BISCAYNE AVE W</i>	<i>1/2 - 1 NW G25</i>		<i>112</i>
<i>WEBB CO</i>	<i>15197 BOULDER AVE</i>	<i>1 - 2 WNW I29</i>		<i>122</i>
<i>WILLIAMS ENERGY SERVICES</i>	<i>15938 S ROBERT TRL</i>	<i>1 - 2 W J32</i>		<i>128</i>

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
MURGIC'S AUTOMOTIVE INC	15640 CANADA CIR	1 - 2 W	L37	148
RICKS AUTOMOTIVE REPAIR	15280 S ROBERT TRL	1 - 2 WNW 44		182
CITY LIMITS LANES	15400 S ROBERT TRL	1 - 2 WNW 45		184
ISD 196 - ROSEMOUNT	15180 CANADA AVE W	1 - 2 WNW O54		221
EXTREME MOTOR SPORTS	14785 S ROBERT TR	1 - 2 NW N57		234
ROSEMOUNT PRINTING	14760 S ROBERT TRL	1 - 2 NW	P61	241
MN ENERGY RESOURCES - ROSEMOUN	2665 145TH ST W	1 - 2 NNW Q63		245
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
AAA AUTO SALVAGE - ROSEMOUNT	2871 160TH ST W	1/2 - 1 WSW 26		114
PHILS BODY SHOP INC	2955 160TH ST W	1 - 2 WSW 27		116
CANNON EQUIPMENT	15100 BUSINESS PKWY	1 - 2 NW H31		126
RESERVE INTELLIGENCE AREA 10	14950 AKRON AVE	1 - 2 NE M43		180

RCRA-NonGen: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA-NonGen list, as provided by EDR, and dated 08/20/2008 has revealed that there are 4 RCRA-NonGen sites within approximately 1.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
AAA AUTO SALES	2595 W 160TH ST	1/2 - 1 WSW C11		47
AUTO FITNESS CENTER THE	14810 S ROBERT TRL	1 - 2 NW N46		186
DAKOTA EQUIPMENT REPAIR	14762 S ROBERT TRL	1 - 2 NW P58		237
GENUINE PARTS CO - NAPA AUTO	14760 S ROBERT TRL	1 - 2 NW P59		239

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 07/01/2008 has revealed that there are 26 FINDS sites within approximately 1.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
DAKOTA FENCE OF MINNESOTA INC	15953 BISCAYNE AVE W	1/2 - 1 WSW B10		47
AAA AUTO SALES	2595 W 160TH ST	1/2 - 1 WSW C11		47
ALLISON SPECIALTY COMPONENTS -	2605 160TH ST W STE 114	1/2 - 1 WSW C13		50
METROPOLITAN MOSQUITO CONTROL	2695 160TH ST W	1/2 - 1 WSW D15		59
HIGHSTONE DEVELOPMENT	2871 160TH ST	1/2 - 1 WSW E17		68
DAKOTA COUNTY STORAGE FACILITY	2800 160TH ST W	1/2 - 1 WSW F19		71
DAKOTA COUNTY TRANSPORTATION	2800 160TH ST W	1/2 - 1 WSW F22		107
COMMERCIAL MILLWORK SOLUTIONS	15051 BISCAYNE AVE W	1/2 - 1 NW G25		112
WEBB CO	15197 BOULDER AVE	1 - 2 WNW I29		122

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
WILLIAMS ENERGY SERVICES	15938 S ROBERT TRL	1 - 2 W	J32	128
MURGICS AUTOMOTIVE INC	15640 CANADA CIRCLE	1 - 2 W	L38	150
CARLSON TRACTOR AND EQUIPMENT	15125 S ROBERT TRL	1 - 2 WNW 40		151
RICKS AUTOMOTIVE REPAIR	15280 S ROBERT TRL	1 - 2 WNW 44		182
CITY LIMITS LANES	15400 S ROBERT TRL	1 - 2 WNW 45		184
AUTO FITNESS CENTER THE	14810 S ROBERT TRL	1 - 2 NW	N46	186
MASTER TRANSMISSION INC	14805 S ROBERT TRL	1 - 2 NW	N50	206
ISD 196 - ROSEMOUNT	15180 CANADA AVE W	1 - 2 WNW	O54	221
EXTREME MOTOR SPORTS	14785 S ROBERT TR	1 - 2 NW	N57	234
DAKOTA EQUIPMENT REPAIR	14762 S ROBERT TRL	1 - 2 NW	P58	237
GENUINE PARTS CO - NAPA AUTO	14760 S ROBERT TRL	1 - 2 NW	P59	239
ROSEMOUNT PRINTING	14760 S ROBERT TRL	1 - 2 NW	P60	240
MN ENERGY RESOURCES - ROSEMOUN	2665 145TH ST W	1 - 2 NNW	Q63	245

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
AAA AUTO SALVAGE - ROSEMOUNT	2871 160TH ST W	1/2 - 1 WSW	26	114
PHILS BODY SHOP INC	2955 160TH ST W	1 - 2 WSW	27	116
CANNON EQUIPMENT	15100 BUSINESS PKWY	1 - 2 NW	H31	126
RESERVE INTELLIGENCE AREA 10	14950 AKRON AVE	1 - 2 NE	M43	180

STATE AND LOCAL RECORDS

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Minnesota Pollution Control's Permitted Solid Waste Disposal Facilities list.

A review of the SWF/LF list, as provided by EDR, and dated 06/01/2008 has revealed that there is 1 SWF/LF site within approximately 1.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
KNUTSON SERVICES INC	2875 160TH ST	1/2 - 1 WSW	E18	69

MN LS: The List of Sites includes: Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS), No Further Remedial Action Planned (NFRAP), National Priorities List (NPL), Permanent List of Priorities (PLP), Sites delisted from the Permanent List of Priorities (DPLP), Hazardous Waste Permit Unit Project Facilities (HW PERM), List of Permitted Solid Waste Facilities (SW PERM), 1980 Metropolitan Area Waste Disposal Site Inventory, 1980 Statewide Outstate Dump Inventory (ODI), Voluntary and Investigation Program (VIC), and Closed Landfill Sites Undergoing Cleanup (LCP). The List of Sites comes from Minnesota Pollution Control

A review of the MN LS list, as provided by EDR, and dated 03/10/2008 has revealed that there are 2 MN LS sites within approximately 1.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
KNUTSON SERVICES INC	2875 160TH ST	1/2 - 1 WSW	E18	69
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
ROSEMOUNT DEMOLITION LANDFILL	SEE LOCATION DESCRIPTIO	1 - 2 W	41	160

EXECUTIVE SUMMARY

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Minnesota Pollution Control Agency's Leak Sites list.

A review of the LUST list, as provided by EDR, and dated 06/01/2008 has revealed that there are 8 LUST sites within approximately 1.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
AGRICULTURAL EXPERIMENT STATIO Complete Site Closed Date: 9/13/1995 Complete Site Closed Date: 10/4/1994 <i>*Additional key fields are available in the Map Findings section</i>	1605 160TH ST W	1/4 - 1/2 SE	A4	26
U OF M STATION SERVICE CENTER Complete Site Closed Date: 1/21/1993	1605 160TH ST W	1/4 - 1/2 SE	A5	38
CARLSON TRACTOR AND EQUIPMENT Complete Site Closed Date: 6/20/1995	15125 S ROBERT TRL	1 - 2 WNW 40		151
STRESE OIL CO Complete Site Closed Date: 7/28/1993	14810 S ROBERT TRL	1 - 2 NW	N48	202
TRANSPORTAION FACILITY Complete Site Closed Date: 5/15/1998	15180 CANADA AVE	1 - 2 WNW	O51	208
FORMER ARCTIC CAT Complete Site Closed Date: 2/5/2001	14785 S ROBERT TRL	1 - 2 NW	N56	233
TOM THUMB Complete Site Closed Date: 3/25/1999	15040 CANADA AVE	1 - 2 WNW	R67	259
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
NAVY RESERVE INTELLIG. AREA 10 Complete Site Closed Date: 1/29/2002 Complete Site Closed Date: 1/23/1991	14950 AKRON AVE	1 - 2 NE	M42	160

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Minnesota Pollution Control's Underground Storage Tank File.

A review of the UST list, as provided by EDR, and dated 06/01/2008 has revealed that there are 10 UST sites within approximately 1.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
AGRICULTURAL EXPERIMENT STATIO	1605 160TH ST W	1/4 - 1/2 SE	A4	26
DAKOTA COUNTY TRANS DEPT	2800 160TH ST W EMPIRE	1/2 - 1 WSW F21		87
CARLSON TRACTOR AND EQUIPMENT	15125 S ROBERT TRL	1 - 2 WNW 40		151
KWIK TRIP #697	14810 S ROBERT TRL	1 - 2 NW	N47	187
DISTRICT #196 OFFICE EAST	15180 CANADA AVE	1 - 2 WNW	O55	223
GENZ-RYAN PLUMBING & HEATING C	14745 S ROBERT TRL	1 - 2 NW	P64	247
TOM THUMB FOOD MARKETS #276	15040 CANADA AVE	1 - 2 WNW	R66	254
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
MURGICS AUTOMOTIVE INC	15635 S ROBERT ST	1 - 2 W	K35	143
MIKE M MURGIC	15635 S ROBERT TRL	1 - 2 W	K36	145
NAVY RESERVE INTELLIG. AREA 10	14950 AKRON AVE	1 - 2 NE	M42	160

EXECUTIVE SUMMARY

LAST: A listing of leaking aboveground storage tanks.

A review of the LAST list, as provided by EDR, and dated 06/01/2008 has revealed that there are 2 LAST sites within approximately 1.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
AG RESEARCH CENTER Complete Site Closed Date: 9/26/1994	2375 160TH ST W	1/4 - 1/2 WSW 8		44

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
NAVY RESERVE INTELLIG. AREA 10 Complete Site Closed Date: 1/29/2002	14950 AKRON AVE	1 - 2 NE	M42	160

AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Minnesota Pollution Control's Aboveground Storage Tank File.

A review of the AST list, as provided by EDR, and dated 06/01/2008 has revealed that there are 4 AST sites within approximately 1.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
DAKOTA COUNTY TRANS DEPT	2800 160TH ST W EMPIRE	1/2 - 1 WSW F21		87
GAS SUPPLY INC	15938 S ROBERT TRL	1 - 2 W	J33	130
MASTER TRANSMISSION	14805 ROBERT TRL	1 - 2 NW	N49	204

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
NAVY RESERVE INTELLIG. AREA 10	14950 AKRON AVE	1 - 2 NE	M42	160

BULK: Facilities that use pesticides or fertilizers. The data come from the Minnesota Department of Agriculture.

A review of the BULK list, as provided by EDR, and dated 05/15/2008 has revealed that there is 1 BULK site within approximately 1.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
U OF M STATION SERVICE CENTER	1605 160TH ST W	1/4 - 1/2 SE	A5	38

SPILLS: This is the Minnesota Pollution Control Agency's Spills Log.

A review of the SPILLS list, as provided by EDR, and dated 06/01/2008 has revealed that there are 5 SPILLS sites within approximately 1.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
WEBB COMPANY Spill Closure: Response Completed	15197 BOULDER AVE	1 - 2 WNW	I30	124
KOCH REFINERY Spill Closure: Nonsignificant, No Followup	2665 145TH ST W	1 - 2 NNW	Q62	243
GENZ RYAN PLUMBING AND HEATING Spill Closure: Refer To Regulars Section	14745 S ROBERT TRL	1 - 2 NW	P65	252

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
ROSEMOUNT RESEARCH CENTER - U Spill Closure: Closed, Other (See Remarks)	14951 AKRON AVE	1 - 2 NE	34	141

EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
NAVY RESERVE INTELLIG. AREA 10 Spill Closure: Nonsignificant, No Followup	14950 AKRON AVE	1 - 2 NE	M42	160

AGSPILLS: Incidents involving agricultural chemicals. The data come from the Minnesota Department of Agriculture.

A review of the AGSPILLS list, as provided by EDR, and dated 06/02/2008 has revealed that there are 2 AGSPILLS sites within approximately 1.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
U OF MN ROSEMOUNT EXP STN Not reported	1605 160TH ST W	1/8 - 1/4 W 1/4 - 1/2 SE	1 A6	6 40

CDL: This data was passively gathered. That is, the DOH asks law enforcement and other agencies to notify them of Clandestine Drug Labs (CDLs). They do not require reporting of events. Therefore the data represents only a subset of all CDLs. This data has not been verified. The DOH has made no attempt to verify that reported CDLs actually occurred. They have no knowledge if the CDL was involved in cooking or just consisted of chemicals associated with Meth production. The reports they receive are that a suspected CDL was seized.

A review of the CDL list, as provided by EDR, and dated 07/28/2008 has revealed that there is 1 CDL site within approximately 1.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
Not reported	14535 BISCAYNE WAY W	1 - 2 NNW	39	151

AIRS: A listing of permitted AIRS facilities.

A review of the AIRS list, as provided by EDR, and dated 06/18/2008 has revealed that there are 3 AIRS sites within approximately 1.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
UNIVERSITY OF MN - ROSEMOUNT A	1605 160TH ST W	1/4 - 1/2 SE	A2	7
PHIL'S BODY SHOP INC	2955 160TH ST W	1/2 - 1 WSW	F23	109
COMMERCIAL MILLWORK SOLUTIONS	15051 BISCAYNE AVE W	1/2 - 1 NW	G24	110

TIER 2: A listing of facilities which store or manufacture hazardous materials that submit a chemical inventory report.

A review of the TIER 2 list, as provided by EDR, and dated 03/01/2008 has revealed that there are 8 TIER 2 sites within approximately 1.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
U OF MN - ROSEMOUNT RESEARCH &	1605 160TH ST W	1/4 - 1/2 SE	A3	8
U OF MN - AGRICULTURAL EXPERIM	1605 160TH ST W	1/4 - 1/2 SE	A7	40
METROPOLITAN MOSQUITO CONTROL	2695 160TH ST. WEST	1/2 - 1 WSW	D14	50
DAKOTA COUNTY TRANSPORTATION D	2800 160TH STREET W	1/2 - 1 WSW	D16	61
DAKOTA COUNTY EMPIRE FACILITY	2800 160TH STREET WEST	1/2 - 1 WSW	F20	71

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
GEOMETRIX CO.	15124 BUSINESS PKWY.	1 - 2 NW	H28	119
ISD #196 OFFICE EAST - TRANSP	15180 CANADA AVE	1 - 2 WNW	O52	209
ISD #196 OFFICE EAST - TRANSP	15180 CANADA AVE	1 - 2 WNW	O53	218

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
FARMINGTON GROUND WATER PLUME	SHWS, SRS
ELM PARK LANDFILL #3	VIC, SRS
ELM PARK LANDFILL PT. 2	VIC, SRS
ELM PARK LANDFILL	VIC, SRS
ALLINA CLINIC - FARMINGTON	VIC, SRS
FAIRHILL DEVELOPMENT	VIC, SRS
ROSEMOUNT DEMOLITION LANDFILL	VIC, SRS
LANGE GAS	MN LS, VIC, INST CONTROL, SRS
DIXIE CHEMICAL	VIC, SRS
ROSEMOUNT DIE CASTING	VIC, SRS
UMORE PARK - MN PIPE LINE	VIC, SRS
UMORE PARK	MN LS, VIC, SRS
ROSEMOUNT DEMOLITION LANDFILL	SWF/LF, MN LS
PIPESTONE CENTRAL SCHOOL	LUST
FORMER MURGICS SERVICE STATION	LUST
FLINT HILLS RESOURCES (FORMERLY KOCH REFINERY)	LAST
BENTSON ASPHALT	AST
DAKOTA COUNTY COLLISION CENTER	FINDS, RCRA-NonGen
J&L AUTO REPAIR	FINDS, RCRA-NonGen
CAR-NAV-5	RCRA-CESQG
NORTHLAND COLLISION INC	FINDS, RCRA-CESQG
CHECKER AUTO PARTS 1858	RCRA-CESQG
ISD 917 TECHNICAL CENTER	RCRA-CESQG
145TH ST SW / AKRON AVE	CDL
FARMINGTON BUSINESS PARK	FINDS
UMORE PARK/FORMER GOPHER ORDNANCE WORKS	FINDS
ROSEMOUNT BUSINESS PARK - PHASE II	FINDS
ROSEMOUNT BUSINESS PARK	FINDS
ELM PARK LANDFILL	MN LS
UNKNOWN OIL DISPOSAL AT UMORE PARK	SPILLS
DAKOTA COUNTY TECHNICAL COLLEGE	AIRS, TIER 2
DOLE EXPLOSIVES, INC. - BULK PLANT	TIER 2
DOLE EXPLOSIVES, INC. - BULK PLANT	TIER 2
CITY OF ROSEMOUNT WELL #14	TIER 2
CITY OF ROSEMOUNT WELL #12	TIER 2
VERIZON WIRELESS - ROSEMOUNT	TIER 2
SEMSTREAM L.P.	TIER 2
CITY OF ROSEMOUNT WELL #1 & #2	TIER 2
DAKOTA COUNTY TECHNICAL COLLEGE	TIER 2

OVERVIEW MAP - 02318400.1r



★ Target Property

▲ Sites at elevations higher than or equal to the target property

◆ Sites at elevations lower than the target property

▲ Manufactured Gas Plants

■ National Priority List Sites

■ Dept. Defense Sites

■ Indian Reservations BIA

■ Oil & Gas pipelines

■ 100-year flood zone

■ 500-year flood zone

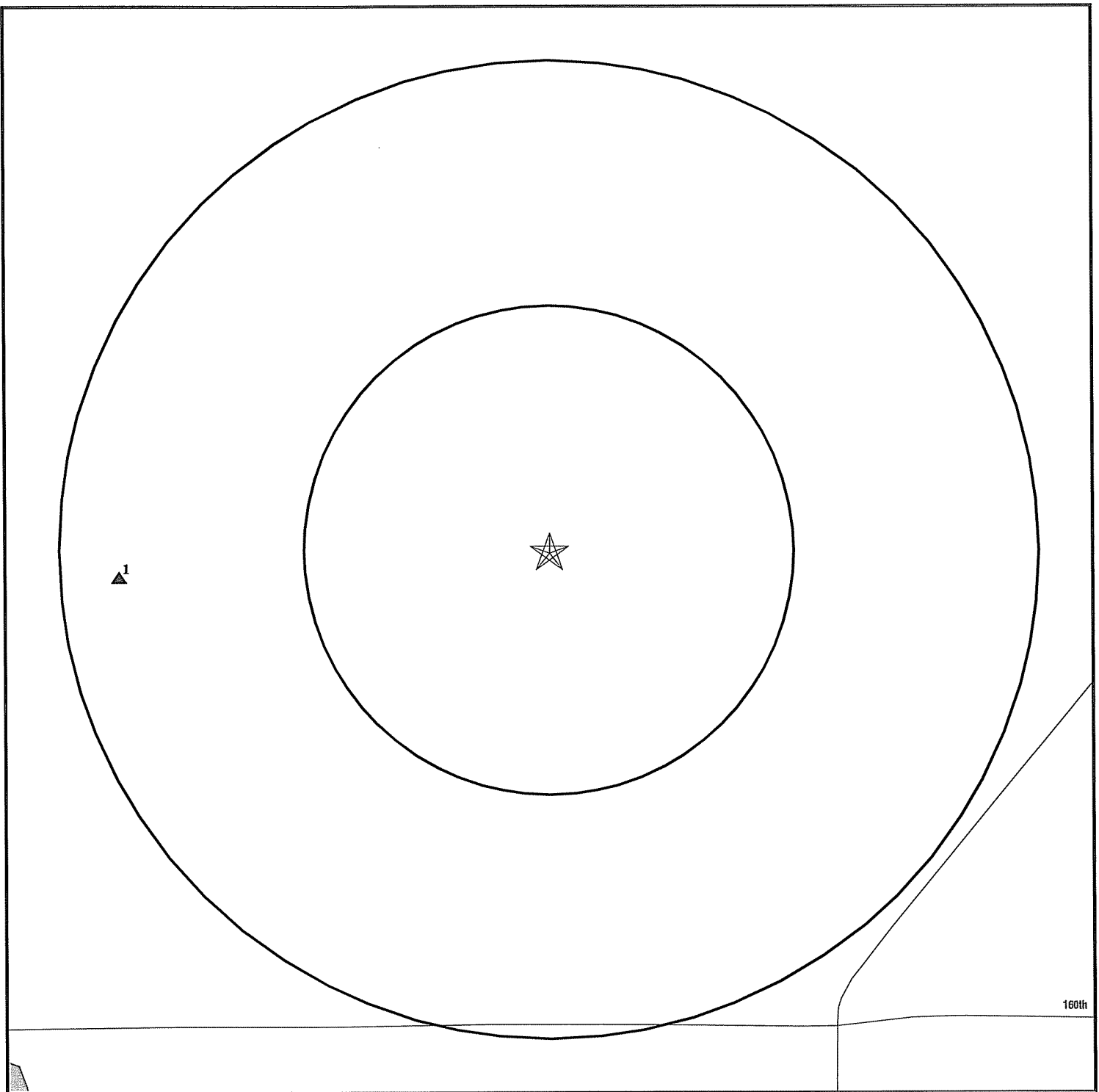
■ National Wetland Inventory

SITE NAME: UMore Park
ADDRESS: UMore Park
Rosemount MN 55068
LAT/LONG: 44.7210 / 93.1048

CLIENT: Barr Engineering
CONTACT: Kristen Betz
INQUIRY #: 02318400.1r
DATE: September 15, 2008 1:16 pm

UMP005635

DETAIL MAP - 02318400.1r



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- ⚡ Sensitive Receptors
- ☒ National Priority List Sites
- ☒ Dept. Defense Sites

- ☒ Indian Reservations BIA
- ⚡ Oil & Gas pipelines
- ☒ 100-year flood zone
- ☒ 500-year flood zone
- ☒ National Wetland Inventory

0 1/16 1/8 1/4 Miles



SITE NAME: UMore Park
 ADDRESS: UMore Park
 Rosemount MN 55068
 LAT/LONG: 44.7210 / 93.1048

CLIENT: Barr Engineering
 CONTACT: Kristen Betz
 INQUIRY #: 02318400.1r
 DATE: September 15, 2008 1:16 pm

UMP005636