

INTERIM REPORT

Nebraska Solvent Company
1200 Highway 30 East
Grand Island, Nebraska
MOA # 36-336-4923

Prepared for

UNION PACIFIC RAILROAD

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Grand Island, Nebraska



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1 INTRODUCTION

This Interim Report has been prepared by Union Pacific Railroad (UPRR) to describe certain investigation activities and interim actions taken at the former lease property of Nebraska Solvent Company (Site) located at 1200 Highway 30 East in Grand Island, Nebraska (Figure 1). These and future activities were conducted under the Nebraska Department of Environmental Quality (NDEQ) Voluntary Cleanup Program (VCP) process to support the VCP Application and Memorandum of Agreement (#36-336-4923) entered into by UPRR and NDEQ on October 25, 2007. A Remedial Action Plan will be submitted to NDEQ documenting the complete investigation and remedial actions to be undertaken at the Site.

1.1 INTERIM REPORT OBJECTIVES

NDEQ policy requires complete delineation of impacted soil and groundwater and protection of human health and the environment. Thus, the specific objectives of the Remedial Investigation (RI) were to determine the extent of volatile organic compounds (VOCs) in soil and groundwater and determine potential human or ecological receptors within the study area.

A secondary objective of this RI was to evaluate the impact of other potential sources on the nature and extent of the groundwater plume. Indications of other sources could include locally elevated chemical concentrations or “hot-spots” within the overall plume or the identification of chemicals or proportions of chemicals that would not be expected given what is known about the chemical source area and plume.

The specific objectives of the RI include the following:

- Delineate and characterize the lateral and vertical extent of impacted environmental media.
- Characterize the environmental setting, including geology, hydrogeology and hydrology, and physical characteristics pertaining to contaminant fate and transport.
- Characterize the physiochemical properties of the chemicals of concern, their mobility and persistence in the environment, and fate and transport mechanisms.
- Identify potential human and environmental receptors that may be threatened or affected by the Site.



- Identify potential additional sources of volatile organic compounds (VOCs) loading to the groundwater plume.
- Collect data to support the evaluation and design of potential remedial actions.

The RI data will be used to develop remedial alternatives to be evaluated in the Remedial Action Work Plan (RAWP).

1.1.1 Chemicals of Interest

Chemicals of interest (COIs) are compounds that have been detected above the concentration values found in the VCP Remediation Goals (RGs) Look-up Tables (NDEQ 2005). Soil RGs were evaluated for both direct contact exposure pathways (residential and industrial land use) and the migration to groundwater pathway. Groundwater RG concentrations are based on the direct contact exposure pathway and for the COIs correspond to the U.S. Environmental Protection Agency (EPA) maximum contaminant level (MCL) concentrations.

Site-specific COIs and the corresponding soil and groundwater RGs include:

Chemical of Interest	Soil VCP RG (mg/kg)	Groundwater VCP RG (µg/L)
Tetrachloroethene (PCE)	0.058	5.0
Trichloroethene (TCE)	0.057	5.0
1,1-Dichloroethene (1,1-DCE)	0.060	7.0
cis-1,2-Dichloroethene (cis-DCE)	0.40	70
trans-1,2-Dichloroethene (trans-DCE)	0.68	100
Vinyl Chloride (VC)	0.013	2.0
1,1,1-Trichloroethane (TCA)	1.9	200
1,1-Dichloroethane (DCA)	1.2	200
Chloroethane (CA)	0.13	23
Benzene	0.034	5.0
Ethylbenzene	13	700
Toluene	12	1,000
Xylenes (total)	210	10,000
Naphthalene	0.000014	0.00028
1,2,4-Trimethylbenzene (1,2,4-TMB)	0.48	3.1
1,3,5-Trimethylbenzene (1,3,5-TMB)	0.12	3.1



1.2 SITE BACKGROUND

This section provides an overview of the background of the study area, including a site description, history and description of previous investigations.

1.2.1 Site Description

Grand Island is located in eastern Hall County, Nebraska. The Nebraska Solvents Company Site is approximately ¼ mile west of the intersection of Stuhr Road and Highway 30 East, near the eastern city boundary, in Grand Island at 1200 Highway 30 East (Figure 1). The land-based description of the Site is the northeast quarter, section 15, Township 11 North, Range 9 West, Hall County, Nebraska. The geographic coordinates are approximately 40.9300°N latitude and 98.3255°W longitude.

The subject property consists of a 540 feet by 140 feet (1.7 acre) parcel of land. Site improvements include a 9,720 square feet, single story, building of metal construction on a concrete slab with office space and a loading dock on the east side. A gravel parking lot occupies the southern portion of the property and the eastern adjacent property. The area north of the building to the property boundary is lightly vegetated with grass and small trees. A portion of the grassy area north of the building is enclosed by a chain link fence. The topography is generally flat. A storm water retention pond is located on the northern portion of the property and on the adjacent railyard. The southern and eastern boundaries of the pond adjacent to the Site have vegetated berms which prevent surface runoff from the Site from entering the pond.

A water well is located at the southeast corner of the building. It served as the water source for sanitary and process water. Waste water at the site is managed by a septic system.

Union Pacific Railroad (UPRR) owns the property, and leased the Site to Nebraska Solvents Company (NSC) from 1966 to 1988. During that period, NSC operated a chemical storage and distribution facility. The property is currently leased to Frank Huntley. The property is currently vacant, but was most recently subleased to Palleton of Nebraska, whose operations included construction and rehabilitation of wooden pallets using mechanical fasteners. The Site land use was light industrial, although it is currently vacant.



The UPRR railyard property adjoins the Site to the north and west. To the east is a mixed-use area developed for commercial and industrial activity. Adjacent northeast of the Site is Guzinski Machine & Tool, Inc., a tool and metal die shop located at 224 Willow Street. East of the Site (across Willow Street) is the Trucks 'N' More used car lot at 215 Willow Street. To the south is U.S. Highway 30 with undeveloped agricultural property beyond. The nearest residential neighborhoods are located about 1,750 feet to 2,750 feet east of the Site. The Site and nearby businesses are shown on Figure 2.

1.3 HISTORICAL OPERATIONS AND SITE CONDITIONS

The U.S. Government transferred ownership of the Site property to UPRR for purposes of constructing a trans-continental railroad in 1875. The Site was leased by UPRR to NSC from 1966 to 1988 with operations at the Site beginning in 1973. Property deed, title and lease documentation are included in Appendix A. During NSC operations as a solvent distributor, various industrial compounds including solvents and fuels were stored and distributed. The Site housed 20 ASTs and an unknown number of 55-gallon drums that contained various solvents. The tanks were located in the enclosed yard on the northern portion of the property. Facility assets apparently were sold to Mr. William H. Roberts of Denver, Colorado around 1986, and the property was leased to him by UPRR. Mr. Roberts reportedly sold the ASTs to Tropicana Energy Co. on an unknown date for use at an ethanol-gasoline blending and distributing facility (Nebraska Solvents Company 1990b). The tanks were removed in 1993 to 1994 by Poland Oil, who noted that the tanks were in good condition and the underlying ground showed no apparent evidence of a leak. During operation and removal of the tanks there was no evidence or report of a release.

The Site also housed two USTs during operation under NSC. One contained diesel fuel (1,000 gallon capacity) and the other gasoline (2,000 gallon capacity). The location of these tanks during their operation is unknown. The tanks were removed between 1984 and 1987 and were reported to have been corroded, but did not show evidence of a release.

The most recent tenant, Palleton of Nebraska, used the Site for construction and rehabilitation of wooden pallets and also operated a truck wash out facility. The truck wash was no longer operated by the time of this investigation and further details were unavailable.



1.4 SURROUNDING AREA WELLS

1.4.1 Municipal Water Wells

There are 21 municipal water wells in a well field located near the Platte River, none of which is within four miles of the Site. In addition to these wells, six high-capacity wells are within the city limits. Three high-capacity wells (Parkview No. 1, Parkview No. 2, and the Stolley Park well) are located in the Stolley Park area. A fourth well (Parkview No. 3) in the Stolley Park area was shut down because of reported contamination (City of Grand Island 2002). The two other wells in the City are referred to as the Locust well and the Reed well. The Parkview 2 well is located between three and four miles from the Site; the Locust, Stolley, and Parkview 1 wells are located between two and three miles from the Site. The Reed well is located approximately 1.25 miles south of the Site. All municipal wells are located hydrologically upgradient of the Site.

1.4.2 Private Wells – Hall County

A well search was conducted for a defined area of interest of 2 mile by 1 mile rectangle to the northeast, east and southeast (generally downgradient) of the Site. The following sources were used or contacted regarding wells within the area of interest:

- Tetra Tech's Report (2005, *Combined Preliminary Assessment/Site Inspection Report*);
- Grand Island Public Works Department;
- Nebraska Department of Natural Resources (NE DNR);
- United States Geological Society (USGS);
- United States Environmental Protection Agency Region 7 (EPA); and
- Nebraska Department of Health and Human Services (NE DHHS).

From these sources a combined well list was created that shows a unique well identification number (assigned by Forrester Group), well owner and address (where available), latitude and longitude, source, and additional pertinent information. Wells identified as monitoring wells by the source were eliminated from the combined well list. A total of one hundred and ten (110)



wells are located within the area of interest with various uses as follows; thirty-six (36) household irrigation wells with public water supply to the residence, four (4) unknown purpose USGS wells, thirteen (13) domestic usage wells, eighteen (18) agricultural irrigation wells, and thirty-nine (39) wells with undetermined usage. The results of all private well investigations are provided in Section 3.4.

1.4.3 Private Wells – Merrick County

An additional search for private domestic wells was conducted upon discovery that the impacted groundwater from the Site extended beyond the initial search area. Approximately twenty registered wells were discovered in an area bounded by Gunbarrel Road, Capital Avenue, Beck Road and Fort Kearney Road in Merrick County. Cross referenced searches for power customers yielded over one hundred and seventy (170) homes in the additional area of interest. Public water supplies are currently not available to this area. The results of all private well investigations are provided in Section 3.4.

1.5 GEOLOGY AND HYDROGEOLOGY OVERVIEW

1.5.1 Climate and Meteorology

The yearly average high temperature for Grand Island is 61.9°F and the low temperature is 38.7°F. The average high and low temperatures for the months of April through September are 78.1°F and 54.0°F, respectively. The average high and low temperatures for the months of October through March are 45°F and 22.5°F, respectively. The average annual precipitation is 25.9 inches. The yearly average of snowfall is 32.5 inches. The average wind speed and direction for the month of August is 10.5 miles per hour (mph) from the south to southeast. During the winter months the wind direction shifts from the north to northwest with average speeds of 12.0 mph. The yearly average humidity for the region is 45 percent (NRCS –NWCC 2007).

1.5.2 Geomorphology

Grand Island, Hall County, Nebraska, is located within the High Plains physiographic province, a flat to gently rolling topography sloping gently eastward from the Rocky Mountains. In Nebraska, the plain is incised by the broad Platte River valley (USGS 1993). The Site is located along the



northern margin of the Wood River alluvial valley, which trends from the southwest to the northeast (Figure 1).

Natural and manmade surface features of the Site were described based upon review of the U.S. Geological Survey (USGS) Valley, Nebraska, Quadrangle (1962, photo revised 1993) 1:24,000 topographic map (Figure 1) and site observations. Based on field observations, the Site is located in a relatively flat commercial area, surrounded by various commercial buildings.

The USGS topographic map for the Site does not show a defined channel to any nearby surface water features. Surface water on the north portion of the site generally drains toward a stormwater pond, which is located on both the Site and adjacent property to the north, while drainage in the southern portion flows into the storm sewer system along the U.S. Highway 30 right of way, which runs southwest to northeast adjacent to the southern portion of the property. Surface water flows northeast along the right of way, eventually draining into Warm Slough Creek and the Wood River which eventually flows into the Platte River approximately 4 miles southeast of the Site.

Perennial surface water bodies, Warm Slough Creek, Wood River, Crystal Lake, and Eagle Lake, exist within two miles of the Site to the southeast. However, the surface water connection from the Site to these bodies appears incomplete. No defined channel from the Site to any nearby surface water features exists. No surface water samples were collected during this investigation.

1.5.3 Soil and Geology

Soil near the Site mostly consists of the O'Neill-Meadin Association, Wann-Leshara-Cass Association, Platte-Sarpy Association, and Gibbon Series, all of which consist mainly of sandy loam with a varying degree of fine to coarse grain sizes. The soil types are best characterized by the location or their occurrence, which are mostly river valley bottomlands (USDA 1962).

The O'Neill-Meadin Association is dark brownish-gray to very dark grayish-brown sandy loam with a few areas of loam (USDA 1962). The Wann-Leshara-Cass Association is loam or sandy loam surface soils with sandy loam subsoils. Leshara soils are deep silty soils that form under somewhat poor drainage and are calcareous at the surface. The Platte-Sarpy Association ranges



from silty clay loam to sandy loam. The Gibbon series consists of silt loam or silty clay loam but also includes very fine sandy loam, loam, and clay loam (NRCS-USDA 2007).

Underlying these soils are unconsolidated deposits of Quaternary age. Throughout Hall County, the unconsolidated deposits of Quaternary age consist of wind and stream deposits of clay, silt, sand, and gravel. The Quaternary deposits range from 30 feet to 430 feet thick and are the principal source of groundwater in the county (Keech and Dreeszen 1964). Because the lowermost portion of the Quaternary deposits is a thick layer of silt or clay that is continuous throughout Hall County, the impermeable shale and clay layer under the sands and gravels previously discussed is probably the lowermost portion of the Quaternary deposits (Keech and Dreeszen 1964).

Under the Quaternary deposits in about three-fourths of Hall County is the partially consolidated Miocene epoch Ogallala Formation. The Ogallala consists of sand, silt, clay, and loosely consolidated sandstone, siltstone, and claystone in discontinuous layers. The Ogallala ranges from 0 to 240 feet thick in Hall County (Keech and Dreeszen 1967). However, the Ogallala formation appears to be discontinuous in eastern Grand Island (USGS 1997). The Ogallala formation lies unconformably on the Upper Cretaceous period Pierre Shale, which represents bedrock in eastern Hall County. The Pierre Shale is fossiliferous marine shale. The formation is generally gray in color. In the study area, bedrock is encountered at approximately 100 feet below ground surface (ft bgs).

1.5.4 Hydrogeology

Grand Island is situated north of the broad alluvial plain of the Platte and Wood Rivers. Subsurface geology consists of Quaternary to Tertiary period unconsolidated fluvial deposits overlying the Cretaceous period Pierre Shale. The Quaternary deposits are the principal source of groundwater in the County (Keech and Dreeszen 1967). In the area of the Site, the Pierre Shale is considered to be the lower confining unit and is not used for production of significant quantities of water (USGS 1997). No karst conditions exist in the area.

Groundwater in Hall County is withdrawn from the stream valley aquifer developed in the alluvial deposits of the Platte River and its tributaries as well as the Ogallala Aquifer, which is developed in the unconsolidated Quaternary and Tertiary period sediments deposited by streams



flowing east from the Rocky Mountains. The stream valley aquifer and the Ogallala Aquifer become hydraulically connected where the Platte and Wood River valleys incise into the surrounding sediments. The aquifers are considered unconfined and are recharged by infiltration of precipitation. Wells completed in the stream-valley and Ogallala aquifers commonly yield 100 to 1,500 gallons per minute. Transmissivity values determined from aquifer tests conducted in the region range from 500 to 53,000 ft²/day (USGS 1997).

The stream-valley aquifer in the vicinity of the Site consists of the alluvial sediments of the Platte River and tributary streams, and ranges in width from about three to five miles. The Stream Valley Aquifer System is a surficial aquifer that consists of unconsolidated sand and gravel limited to stream valleys, and is bounded by Quaternary period poorly sorted terrace deposits that are not part of the stream-valley aquifer. In the vicinity of the Site, the thickness of the alluvial deposits is approximately 100 feet. The alluvium consists of stream-laid deposits of clay, silt, sand, and gravel, with coarser-grained deposits present in the lower two-thirds and finer-grained deposits in the upper one-third. These deposits are Quaternary to Tertiary in age. Shale beds of the Upper Cretaceous Period Pierre Shale underlie the stream-valley aquifer and form a confining unit (USGS 1997).

Groundwater flow across the site follows regional topography, which slopes to the east. Thus, groundwater flow for this area is generally to the east. The approximate depth to groundwater is between 3 and 9 ft bgs with seasonal variation. The saturated thickness of the aquifer ranges from approximately 100 feet or less throughout the area, based on the depth at which bedrock was encountered during site investigation.

1.6 PREVIOUS INVESTIGATIONS

Several investigations have been performed at and near the Nebraska Solvents Company Site prior to this Interim Report and are discussed below.

1.6.1 Summary of Previous Reports

The following information was taken from the 2005 Tetra Tech Combined Preliminary Assessment / Site Inspection Report with minor editing for clarification:



In 1988, NSC retained Benjamin & Associates Engineers and Surveyors, Grand Island, Nebraska, to collect soil samples at the Site property. Soil samples were collected at three borings from approximate depths of 5 to 11 feet below ground surface (bgs). An odor was noted in boring number 3. Samples were analyzed for volatile organic compounds (VOC) by A & L Mid West Laboratories, Inc., Omaha, Nebraska. The only compound reportedly detected in any of the samples analyzed was methylene chloride (0.5 µg/g or 500 µg/kg). Notably, detection limits were 500 µg/kg for all compounds analyzed by A&L Mid West Laboratories, Inc. Apparently, the results from this investigation were never reported to EPA. Mr. Ed Benjamin, of Benjamin and Associates, reported the results of this investigation to NDEQ in 1995 pursuant to an inquiry by Mr. Jeff Raymond, NDEQ (Benjamin & Associates 1995).

During the Cleburn Street Well site investigations (conducted in the early 1990s), EPA sent a Section 104(e) letter to the owner and President of NSC, Mr. Clifford Alderson (incorrectly spelled as Mr. Clifford Anderson in the original letter) (EPA 1990). EPA later concluded that, based on the groundwater flow direction and distance between the Site and the Cleburn Street Well site, the Site was not likely responsible for contamination associated with the Cleburn Street Well site (EPA, 2004a).

However, information in the Section 104 (e) reply provided by Mr. Richard Alderson, Vice-President and General Manager of Nebraska Solvents Company, indicated potential for a release of hazardous substances from the Site. The facility used twenty ASTs (thirteen 12,000-gallon tanks, one 10,000-gallon tank, and six 5,000-gallon tanks) to store industrial chemicals on the Site. The tanks were located within the fenced portion of the property. The tanks were apparently connected via piping to loading pumps located just north of the building. Solvents were also reportedly stored in 55-gallon drums in the building. The following is the list of solvents reportedly stored and sold by the facility during its operating history: toluene, xylene, isopropyl alcohol, methanol, tetrachloroethene (PCE), trichloroethene (TCE), 1,1,1-trichloroethane, methylene chloride, acetone, and methyl ethyl ketone. All solvents managed at the Site were reportedly of virgin source (manufactured by Vulcan Chemical Company) (NSC 1990a).

The NSC reportedly never generated hazardous waste on the Site property. Further, Mr. Alderson indicated he was unaware of any release of hazardous substance to the ground on the Site property. (Mr. Alderson did not mention the results of the Benjamin & Associates Engineers and



Surveyors investigation of the Site in 1988.) Mr. Alderson indicated that NSC served as a transporter for waste generated by his customers (NSC 1990b). The facility had notified NDEQ of this in January 1981 and was subsequently issued a RCRA identification number (NED035036169).

In addition to the solvent storage tanks, Mr. Alderson reported operation of the two USTs on the Site. These tanks had capacities of 1,000 and 2,000 gallons, respectively. They had been installed in 1975 and used to store diesel fuel and gasoline (NSC 1990a). File records indicate different removal dates (1984 and 1987). The original location of the USTs on the Site is unknown.

The May 19, 1995, letter from Mr. Ed Benjamin to Jeff Raymond of NDEQ cited above indicated that the solvent storage tanks on the property had been removed in the winter of 1993-1994 by Poland Oil. Mr. Bob Poland, Poland Oil, was reportedly involved in the removal of the tanks and stated they were in good condition and that the ground beneath them showed no discoloration or evidence of leakage (Benjamin & Associates 1995).

Tetra Tech EM Inc. (Tetra Tech) was requested by NDEQ in 2004 to conduct a combined preliminary assessment/site inspection (PA/SI) at the Site. The purpose of this investigation was to collect information concerning groundwater contamination at the Site sufficient to assess the threat posed to human health and the environment, and to identify the source of contaminants in groundwater to determine the need for action at the Site. The scope of the investigation included a review of available file information, a comprehensive target survey, a site reconnaissance, limited sampling activities, and generation of a Hazardous Ranking System (HRS) scoring memorandum.

Analyses of soil samples during the PA/SI investigation collected from the locations of the former ASTs indicated high concentrations of aromatic hydrocarbons and chlorinated solvents. Private well samples were collected in the housing subdivisions located approximately one mile down gradient of the Site. Of the 82 private wells sampled, 26 had reportable concentrations of one or more volatile organic compounds (VOCs). The primary constituents detected were PCE and cis-1,2-DCE. Most of the wells in these subdivisions are used as lawn and garden irrigation wells. Groundwater samples collected from temporary wells on the former Site included aromatic hydrocarbon compounds toluene, ethylbenzene, and xylenes and the chlorinated solvents PCE, TCE, and cis- and trans-1,2-DCE as the primary constituents (Tetra Tech 2005).



1.7 INVESTIGATIONS OF NEARBY SOURCES

Other potential sources of contamination for the study are listed below based on a review of an environmental database report for the Site vicinity conducted by EDR Inc. on behalf of TetraTech and NDEQ (TetraTech 2005) and NDEQ Site files. The following sites were identified, researched and deemed unlikely to impact upon the investigation and remediation of the NSC Site:

- United Parcel Service, located 951 feet east-northeast of the Site at 1824-B Seedling Mile Road, and is listed in the RCRA-SQG database as a Conditionally Exempt Small Quantity Generator.
- K&L Market, located 1574 feet east-northeast of the Site at East Highway 30 and Seedling Mile Road, is listed in the Leaking Underground Storage Tanks (LUST) database as a high-risk site.
- Bosselman Inc. Pump & Pantry 15, located 1612 feet east-northeast of the Site on East Highway 30, is listed in the LUST database as a high-risk site, currently in active investigation or remediation.
- Kensinger Service, located 2116 feet east-northeast of the Site at 1810 East Highway 30, is listed in the LUST database as a high-risk site, currently in active investigation or remediation.
- Pepsi Cola Bottling, located 2271 feet east-northeast of the Site at 2322 East Highway 30, is listed in the LUST database with a No Further Action status.
- The City of Grand Island power generating plant at Burdick Station has been determined from other NDEQ investigations to have PCE impacts on the property. However, these impacts have been determined by NDEQ to be from a source upgradient of the power plant.
- The U.S. Environmental Protection Agency is currently investigating a property further northeast from the Site along Highway 30. No evidence of groundwater impacts from this site were observed during this investigation.



1.8 REPORT SCOPE AND ORGANIZATION

The scope of this report includes the results of RI activities required under the Memorandum of Agreement between UPRR and the NDEQ as well as additional voluntary RI actions performed by UPRR from April 2006 through June 2008.

This Interim Report is presented in the following sections:

Section 1 – Introduction and Organization	Presents objectives for the investigation and background information for the Site and setting as well as organizational description of the report.
Section 2 – Study Area Investigation	Describes field activities and research performed during the Remedial Investigation.
Section 3 – Investigation Results	Presents study findings in regard to Site-specific characteristics and media impact.
Section 4 – Hydrogeologic Conceptual Model	Provides a comprehensive framework useful to understand chemical fate and transport and to help develop remedies.
Section 5 – Summary and Conclusions	Summarizes key study results and assesses interim and future actions.
Section 6 – References	Bibliography of reference materials and documents cited in this report.



2 STUDY AREA INVESTIGATION

This section provides a description of field and research activities performed as part of the remedial investigation. Field activities were performed in accordance with the NDEQ VCP Guidance.

2.1 OVERVIEW OF INVESTIGATION ACTIVITIES

Field activities completed as part of the RI include:

- Onsite soil and groundwater investigation;
- Upgradient railyard groundwater investigation;
- Downgradient groundwater investigation; and
- Public and private water well search and groundwater sampling.

The investigation approach utilized direct-push technology (DPT) to characterize the subsurface geology through electroconductivity (EC) logging and to collect samples of soil and groundwater. Site maps identifying the investigation target areas and data collection locations for DPT EC logging, soil, and groundwater are provided in Figures 3, 4 and 5, respectively. A soil and groundwater sampling summary is provided in Table 1. Sample collection depths by investigation area are also included in Table 1. Descriptions of field activities are provided in the following section.

2.2 ELECTRICAL CONDUCTIVITY SUBSURFACE INVESTIGATION

Thirty-one EC borings were advanced to bedrock refusal in the investigation area during implementation of the RI. EC boring locations are shown in Figure 3. The EC profiles show heterogeneous alluvial deposits characterized by thick sand layers with silt and clay beds and lenses. Several logs show silt and clay as the predominant lithology in the eastern section of the study area. In the west area, thick sands with a thick basal clay layer are observed. Bedrock refusal ranges from approximately 78 to 103 feet bgs across the study area.



EC borings SBD-01EC through SBD-03EC were advanced during the April 2006 investigation. Borings SBD-04EC through SBD-07EC were advanced during the August 2006 investigation. Borings SBD-08EC through SBD-10EC were advanced during the November 2006 investigation. The remaining borings SBD-11EC through SBD-31EC were advanced during the March 2008 investigation. EC logs are provided in Appendix B.

2.3 SOIL INVESTIGATION

This section provides a description of field activities performed as part of the RI soil investigation.

2.3.1 Direct-Push Soil Sampling

Subsurface soil sampling was conducted to evaluate the lateral extent and nature of impacted soil above the water table (approximately 8 feet). Eight borings were advanced on the Site, and one sample was collected from each boring. Boring locations are shown on Figure 4. Sample locations from the initial Tetra Tech investigation sample locations are also shown. Sampling results from these borings were used to verify and supplement results from previous investigations to evaluate contaminant extent on the NSC property.

DPT borings were advanced using a Geoprobe®. Continuous soil cores were advanced to a sufficient depth to intersect the top of the saturated zone (approximately 8 feet). Continuous cores were scanned with a photoionization detector (PID) and lithology was described. Soil boring logs are presented in Appendix E. One soil sample was collected for laboratory analysis from each boring from the zone immediately above the water table. This sampling zone also corresponded with the highest PID readings from each boring.

Soil samples were collected from soil cores and placed directly into sample containers. Soil samples were analyzed for VOCs using collection method SW-846 5035 and analytical method SW-846 8260. Sample container, preservation, and holding time requirements were met. Containers were sealed and sample bottles were labeled with location name, date and time, sampler name, preservative, and analysis to be performed. Samples were submitted with a



complete chain of custody in an ice-filled cooler to the Pace Analytical Laboratories in Overland Park, Kansas, by express courier.

Complete laboratory analytical reports and data verification reports are provided in Appendices F and H, respectively.

2.3.2 Geotechnical Soil Sampling

Geotechnical soil samples were collected on December 4, 2006, at well location MW-NSC-02C in the former tank area of the Site. Additional geotechnical samples were collected on December 6, 2006 at well location MW-NSC-07C along Stuhr Road. A total of six samples were collected at depth intervals that represented lithology changes and analyzed for atterberg limits, moisture content, organic content, and grain size distribution. Atterberg limits were determined by method ASTM D-5084. Moisture and organic content were analyzed by method ASTM D-422. Grain size analysis and classification was performed by method ASTM C136. Geotechnical soil sampling results are provided in Appendix C.

2.4 GROUNDWATER INVESTIGATION

This section provides a description of field activities performed as part of the RI groundwater investigation.

2.4.1 Direct-Push Groundwater Profiling

DPT was used to obtain groundwater samples to determine the plume extent and to resolve macro-scale variations of affected groundwater within the plume. DPT groundwater samples were collected during field events in April, June, August and November 2006. Additional field events were performed in March and June 2008.

Groundwater samples were collected using DPT. Groundwater sample locations are shown on Figure 5 and are located in these general areas:

- Upgradient within the UPRR Railyard;



- On and immediately around the Site;
- East of the property along Willow Street and a portion of the Old Lincoln Highway;
- South and east of the former NSC property along Highway 30;
- Along Stuhr Road (approximately ¼ mile east of the Site);
- Along Seedling Mile Access Road and the eastern edge of a sod farm (approximately ½ mile east of the Site);
- Along Voss Road, Museum Drive and East Swift Road (approximately ¾ mile east of the Site);
- Along Wainwright Street and Andrew Avenue (approximately 1 mile east of the Site);
- Along Seedling Mile Road between Wainwright Street and Shady Bend Road;
- Along Shady Bend Road and Wetzel Road (approximately 1¼ miles east of the Site);
- Along various farm access roads between 1¼ and 2 miles east of the Site;
- Along Gunbarrel Road (approximately 2¼ miles east of the Site);
- Along East Capital Avenue between 2¼ and 3 miles east of the Site;
- South of East Capital Avenue and north of Fort Kearney Road between 2½ and 3 miles east of the Site; and
- Along farm access roads and Beck Road between 3 and 3½ miles east of the Site.

DPT groundwater samples were collected at select intervals from bedrock to the water table at 217 locations to produce a total of 661 groundwater samples. The sampling depth intervals were selected at each location based on previous laboratory results and EC logging results for the area.



DPT groundwater samples were collected at nineteen (19) locations on or adjacent to the Site, which represent the source area characterization.

Samples were collected from a screen-point sampler using dedicated single-use polyethylene tubing with a check valve. The tubing was sufficiently filled by hand oscillation after which the tubing was withdrawn from the screen-point sampler and then drained from the bottom of the tubing into new, laboratory-supplied hydrochloric acid (HCL) preserved, 40-mL sample vials. Approximately one to two liters of water was purged from each screen-point sampling point to eliminate the most turbid water from sample collection and to purge groundwater from the screen point prior to sampling.

To facilitate decision-making during drilling, samples collected at 30 feet bgs within the NSC tank yard and all samples collected along Willow Street and Highway 30 were analyzed on-site by a mobile laboratory supplied by Below Ground Services (BGS) from Lawrence, Kansas. During the April 2006 event, approximately one third of the samples analyzed on-site were submitted to Pace Analytical Laboratory in Lenexa, Kansas for VOC analysis by USEPA Method SW-846 8260B. All samples collected during the June, August and November 2006 events were submitted to Pace Analytical Laboratory in Lenexa, Kansas. The standard analytical turnaround time was two weeks. All samples collected during the March 2008 event were analyzed on-site by BGS using a modified method 8021 analysis. Samples collected during the June 2008 event were analyzed on-site by Environmental Chemistry Consulting Services, Inc. (ECCS) using method 8260B. Sampling depths are summarized in Table 1 for each location.

DPT groundwater sample locations were also collected on railroad property to the west-northwest of the NSC property as shown on Figure 5. Sample locations were selected to address the following areas:

- Upgradient of the NSC property (center portion of north railyard boundary); and
- Downgradient of the former roundhouse facility (southwest portion of the railyard).

Groundwater samples collected upgradient and downgradient of the former roundhouse were analyzed for VOCs using method SW-846 8260B and PAHs using method SW-846 8270C.



Groundwater samples collected from upgradient of the NSC property were analyzed for VOCs using method SW-846 8260B.

Downgradient groundwater samples were collected using the same methods and analysis utilizing data from each prior sampling event to determine locations and sampling depths for subsequent investigation.

DPT samples were collected on UPRR property or on City of Grand Island (City), Hall County or Merrick County rights-of-way where possible. Authorization was received from the City, County or private land owners prior to the installation of DPT borings. Utility clearances were performed at all locations to assure that utilities were not encountered during drilling.

During DPT drilling, the estimated depth to bedrock was recorded, when encountered, to facilitate evaluations of the bedrock surface.

Complete laboratory analytical reports and data verification reports are provided in Appendices G and H, respectively.

2.4.2 Monitoring Well Installation and Sampling

Installations of long-term groundwater monitoring wells were also performed to define the plume extent. Specific objectives of long-term groundwater monitoring included the following:

- Obtain high quality, defensible data (physical and chemical);
- Characterize study area stratigraphy and hydrogeology, including potentiometric surface, and groundwater flow paths; and
- Define plume extent and assess plume status (steady-state versus increasing or decreasing) through wells installed within the plume.

2.4.2.1 Well Installation

A total of fifty-eight (58) two-inch diameter monitoring wells were installed on- and off-site into the unconsolidated sediments during three events occurring in December 2006, March 2008 and



June 2008 using a hollow-stem auger drill rig. Well design, including the final number, screened interval, and location of wells, was determined after the DPT groundwater data was received. Well locations are shown on Figure 16.

Three (3) wells are installed onsite. Two (2) wells are installed upgradient in the UPRR railyard. Fifty-three (53) offsite wells are installed on the City- or County-owned street right-of-ways from Willow Street through East Capital Avenue. Authorization was received from the City and/or Merrick County prior to well installation. Utility clearances were also performed to assure that buried utilities were not encountered during drilling.

Monitoring wells were installed in groups to monitor VOC-impacted depth intervals of the aquifer, as well as non-impacted portions of the aquifer above and below the impacted zones where applicable. Additional monitoring wells were installed to define the lateral extent of VOC-impacts at similar depths to nearby wells designed to monitor the core of the impacts.

The riser and well screen consisted of threaded Schedule 40 PVC and the screen slot size was 0.010 inches. A sediment trap was installed at the base of the well screen. The annular space was filled with a 12-20 silica sand filter pack. The sand pack extended approximately 2 to 3 feet above the top of the well screen. A bentonite plug 3 to 5 feet thick was installed above the filter-pack and hydrated with potable water. All remaining annular space was filled with bentonite grout. A flush-mounted completion, including a steel well housing and concrete pad meeting Department of Natural Resources requirements, was installed to minimize interference with traffic or residents. An Envirocap™ was installed on the top of the riser pipe. Monitoring well construction details are summarized in Table 2.

Monitoring well completion logs are included in Appendix I.

2.4.2.2 Monitoring Well Development

After well completion, a waiting period of at least 24 hours passed prior to well development. Development was performed to remove fines from the filter-pack and to promote the free-flow of natural formation water into the well.



All wells were developed following installation. The procedure for monitoring well development followed the Work Plan. A minimum of five well volumes was purged from each well during development. Using the development pump as a surge block, groundwater was repeatedly surged in order to promote the movement of fines from the filter pack. Groundwater turbidity was allowed to visibly clear before surging resumed. Surging and well development was discontinued after groundwater turbidity measured less than 10 nephelometric turbidity units after sustained surging.

2.4.2.3 Deployment and Retrieval of PDB Systems

After well development, a system consisting of a passive diffusion bag (PDB) sampler was deployed in each well. The wells were capped with a locking Envirocap™ that has a clip for attaching the PDB tether. The PDB system is employed to obtain representative, discrete interval samples of VOCs under natural groundwater flow conditions. PDB sampling is a time-weighted average, with an emphasis on the 1 to 4 days prior to sampling (ITRC 2004). This leads to sample results that reflect groundwater concentrations while the aquifer is in equilibrium.

A PDB sampler is a low density polyethylene bag filled with de-ionized water. The PDB samplers used for the Site were designed to hold 350 mL of water. The PDB sampler acts as a semi-permeable membrane and is suspended within the screened interval of the well to passively collect groundwater samples. VOCs in groundwater will diffuse across the bag material until constituent concentrations within the bag reach equilibrium with concentrations in the surrounding groundwater (typically a minimum of two weeks).

The PDBs are disposed as investigational derived waste and replaced with new sets which are deployed back into the wells for the next sampling event. A reusable stainless steel weight is attached to the bottom of the tether. PDB tether lengths are summarized in Table 2.

According to the *User's Guide for Polyethylene-Based Passive Diffusion Bag Samplers to Obtain Volatile Organic Compound Concentrations in Wells* (Vroblesky 2001) there is no specified maximum time for retrieval of the PDBs. At one site the PDBs were left in place in VOC contaminated groundwater for one year without loss of bag integrity. After the initial three month



equilibrium period and subsequent retrieval, the wells were sampled on a quarterly schedule. This report includes data for the first six quarters of sampling.

2.4.2.4 Monitoring Well Sampling

Subsequent to the collection of DPT groundwater sampling and based on those results, monitoring wells were installed. Groundwater samples collected from the monitoring wells were collected using PDB samplers. Prior to sampling, static water level measurements were taken using a decontaminated electronic water-level probe.

Sampling events occurred on the following dates:

- March 8, 2007;
- June 19, 2007;
- September 17, 2007;
- December 5, 2007
- March 6, 2008; and
- June 23, 2008.

Initial groundwater sampling took place on March 8, 2007, with samples collected from the PDB systems that were deployed in January 2007 for the first installment of fifteen monitoring wells. The PDBs were used to fill three 40mL HCL- preserved VOA vials for 8260 VOC analysis. Used PDB systems were discarded as solid waste.

Samples are identified by well name followed by the date (e.g. MW-NSC-01A-YYMMDD). Sample identification procedures were modified starting with the December 2007 event (e.g. WG-1550-MW-01A-DDMMYYYY). Samples were packed with ice and a completed chain-of-custody in a cooler and submitted to TestAmerica laboratory in Cedar Falls, Iowa by overnight courier. Samples were analyzed within holding times for VOCs by USEPA Method SW-846 8260B. Quality control samples, including duplicate and matrix spike/matrix spike duplicates



were collected on a 1 per 20 sample basis. Trip blank samples were included in each cooler for VOC analyses.

Complete laboratory analytical reports and data verification reports are provided in Appendices K and L, respectively.

Further detailed descriptions of sampling procedures can be found in The Forrester Group Standard Operating Procedure (SOP) *No-purge Groundwater Sampling SOP 225, March 2007*.

2.4.3 Slug Testing

Slug tests are *in-situ* aquifer characterization tests designed to estimate hydraulic conductivity and other aquifer parameters for aquifer immediately surrounding the test well. Hydraulic conductivity is an important parameter in modeling the flow of groundwater in the aquifer.

A slug test involves the measurement of groundwater level fluctuation and the duration of its return to equilibrium in response to an instantaneous change in the potentiometric surface. Generally a “slug” of water or a solid cylinder is injected or withdrawn from the test well to induce the rapid change in water level. A pneumatic slug was used in the series of tests at the Site. A pneumatic slug injects a volume of air above the water table in the test well. As the air column pressurizes, the water table is depressed until the pressure is instantaneously released and water levels begin to return to equilibrium.

Slug tests offer several advantages. Tests can be performed quickly at relatively low cost, as compared to pumping tests; estimates of aquifer parameters are made *in-situ* and thus represent a larger volume of the aquifer than do core samples; and, in the case of pneumatic slug tests, no IDW is created, thus reducing the logistical requirements for water rights, discharge permitting and waste disposal. However, slug tests have a number of limitations. The storage coefficient (storativity) cannot be determined by a slug test. Additionally, due to the small-scale volume change in water table levels, the area of influence of a slug test is the area immediately surrounding the test well. Thus, the hydraulic conductivity estimates derived from the slug test may not be representative of the average hydraulic conductivity of the larger aquifer.



The specific objectives of the slug tests included collection of bulk hydraulic properties for the aquifer and determination of the following parameters:

- Horizontal Conductivity (K);
- Transmissivity (T); and
- Groundwater Velocity.

2.4.3.1 Test Setup and Methodology

The pneumatic slug test assembly consists of a valve, water displacement gauge, pressure transducer access port, and air chamber, which couples to the well head. A hand-held pump is used to pressurize the well until the desired air pressure (measured in inches of water) is achieved. The well is then depressurized via the valve signaling the beginning of the test.

All water level measurements were recorded by a downhole data logger for the duration of the test. An In-Situ LevelTROLL® 700 recorded data on a linear timescale with high-frequency data collection (0.25-second interval). The transducer was placed at approximately one-half meter from the static water level (Butler *et al.* 2003) in order to reduce recording errors noted by McElwee (2001) and Zurbuchen *et al.* (2002). Water level data was recorded continually via an In-Situ Rugged Reader® hand-held computer connected to the LevelTROLL®. During the pressurization phase of the test, real-time water levels indicated when the desired displacement was reached, and the air chamber was depressurized. The duration of each test varied from a few seconds to one minute, based on the time it took for water levels to stabilize following initial displacement. Three to five tests, each using different water level displacement values, were conducted at each test well.

The Forrester Group performed slug tests in nine monitoring wells on June 20, 2007. Slug test results are provided in Appendix J.



2.5 DECONTAMINATION PROCEDURES

Equipment used at multiple locations was decontaminated prior to each use. Equipment was washed with Liquinox (or equivalent) and water, followed by a distilled water rinse.

2.6 INVESTIGATION DERIVED WASTE MANAGEMENT

Drill cuttings, purge/development water, decontamination water, sampling residuals, and other investigational derived waste (IDW) generated during RI field work was containerized upon generation, tested and properly disposed as described in this section.

2.6.1 Investigation Derived Solid Waste Management

Soil cuttings were produced during soil borings and the installation of monitoring wells. Cuttings were gathered and placed in covered 55-gallon drums or lined and covered twenty cubic yard roll-off containers during the monitoring well installation and DPT events. All containers were appropriately labeled with non-hazardous waste placards based on generator knowledge to identify contents, generation date, contact information and characterization actions being taken. Composite soil samples were collected at a minimum rate of one sample per monitoring wells, regardless of the volume of cuttings, and was characterized for disposal using Toxic Characteristic Leaching Procedure (TCLP) VOC methods. Analytical results were compared to the Residential Direct Contact Exposure Pathway concentrations from the VCP RG Lookup Tables. Soil from monitoring well installation was disposed as special waste at the local landfill facility in Grand Island. Soil from on-site soil sampling that did not exceed applicable VCP RGs and was thin-spread on the site surface per the VCP guidance. IDW laboratory analytical reports are provided in Appendix D.

Disposable sampling equipment and personal protective equipment (PPE) and DPT acetate liners were decontaminated if grossly impacted, containerized in trash bags and handled as routine solid waste.



2.6.2 Investigation Derived Water Management

Wastewater generated during the RI was stored in 55-gallon drums pending the receipt of analyses that was used to determine proper disposal. Accumulated water was sampled for VOCs by USEPA Method SW-846 8260B at a minimum rate of 1 sample per 5 drums or 300 gallons. Analytical results were compared to the Residential Direct Contact Exposure Pathway concentrations from the VCP RG Lookup Tables. Water not exceeding MCLs for COIs was thin-spread over the site per the VCP guidance.

2.7 PRIVATE WATER WELL SAMPLING

The Forrester Group sampled private water wells from August 8 to 29, 2006, identified during a private water well search for a 2 mile by 1 mile rectangular area to the northeast, east and southeast (generally downgradient) of the Site. Figures 23 and 24 provide a site-wide and focus area view of all private wells sampled along with analytical results.

Based on DPT groundwater analytical results, likely sampling points were identified. During the field component of the sampling event, owners of previously identified well locations were approached on a door-to-door basis to request access to the wellhead for sampling. If previously unidentified well locations were identified in the field, field personnel requested access to the well.

One hundred and ten (110) wells were identified during the search. A total of eighteen (18) wells were sampled based on owner approval, access and functioning well equipment. Water samples were collected after purging the well by allowing water to run for a period of one to two minutes. Samples were packed with ice and a completed chain-of-custody in a cooler and submitted to TestAmerica laboratory in Cedar Falls, Iowa by overnight courier. Samples were analyzed within holding times for VOCs by USEPA Method SW-846 8260B. Quality control samples, including duplicate and matrix spike/matrix spike duplicates were collected on a 1 per 20 sample basis. Trip blank samples were included in each cooler for VOC analyses.

A second area of private wells, including wells used for potable water supply, was identified in April 2008 after groundwater impacts were observed in DPT groundwater samples collected east



of Gunbarrel Road in Merrick County. NDEQ, NE DHHS and the local Central District Health Department were notified and information was distributed to homeowners via door-to-door canvassing prior to efforts to collect private domestic well groundwater samples. A total of one hundred and forty-six (146) wells were sampled during April, May and June 2008.

Owners of sampled wells were informed of the results via telephone within one week of sample collection and provided a copy of the analytical results for their well via letter. Copies of notification letters were provided to NDEQ.

A complete list of sampled private well locations is presented in Appendix M. The laboratory analytical reports and data verification reports are provided in Appendices N and O, respectively.



3 RESULTS

This section provides an overview of the results of the RI activities described in Section 2. Further analysis of these results is presented in Section 4.

3.1 GEOLOGY

Over most of the study area the sequence of unconsolidated sediments consists of, from bottom to top, coarse, medium and fine sand, silts and clays with interbedded and transitional textures. Sediments were generally moist and plasticity is proportional to clay content.

Sequences of upward fining unconsolidated sediments of the study area represents fluvial deposits left behind by braided rivers transporting large sediment loads eastward from the Rocky Mountains through the Tertiary and Quaternary periods. A thin poorly developed soil composed of organic silt and sand was present in most of the study area. Though a thick (5 to 25 feet) clay layer was present in several borings (SB-01, SB-02, SB-03, SB-04, SB-05, SBD-02EC, SBD-04EC, SBD-05EC, and SBD-06EC), this clay layer was separated from the developed soil by thin interbedded sand layers. The sediments consist predominantly of alternating thick (25 to 60 feet) sand layers with irregular, thin (0.5 to 5 feet), interbedded silt and clay layers. Several portions of the study area exhibit very little to no sand content, based on borings logs (SBD-04EC, SBD-05EC, and SBD-06EC). EC boring SBD-10EC exhibited an almost continuous layer of clay from 0 to 98 ft bgs, with very thin (1 to 6 feet) silt layers with very little sand apparent.

The type and distribution of sediments in the study area are typical of braided river sedimentary systems where coarse sand is deposited in lenses that migrate laterally in response to seasonal influx of meltwater and sediment load. The resulting deposits are extensive and cover large areas in broad 'sheets'. Portions of the study area containing coarser and thicker sands are interpreted to represent channel deposits of the ancestral Platte and Wood Rivers. While time-correlative sand, silt and clay were deposited across river system in response to sediment supply and water energy, sediments in the main channel were more frequently reworked and finer sediments were winnowed leaving a relatively thick accumulation of sand. Finer grained deposits consisting of fine sand, silt and then clay were deposited on flood plains in response to progressively lower



water energy. These fine grained deposits appear throughout the migrating channels as clay and silt lenses.

Bedrock at the site was encountered in DPT EC borings at a depth ranging from 75 to 103 ft bgs, with an average depth of 90 ft bgs. Bedrock was encountered in SBD-01 in a continuous core sample at a depth of 67 ft bgs. The bedrock surface is undulating and generally slopes toward the east. Based on drilling logs, bedrock underlying the study area is grey shale and correlates to the late Cretaceous Pierre Shale.

Electroconductivity logs are included in Appendix B and soil boring logs can be found in Appendix E of this Interim Report.

3.1.1 Soil Geotechnical Characteristics

Geotechnical analytical results from samples collected from MW-NSC-02 and MW-NSC-07 during well installation are provided in Appendix C. Clay-rich soils collected from the top of the soil column were characterized as sandy lean clay and tested for Atterburg Limits. Sandy soils collected from lower portions of the soil column (4 samples from 8 to 47 ft bgs) were characterized as poorly graded sand, and analyzed for organic content (0.1 percent) and had an average moisture content of 11 percent.

3.2 HYDROGEOLOGY

A shallow aquifer exists in the alluvial deposits overlying shale bedrock to an average depth of approximately 90 ft bgs. The depth to groundwater varies spatially and seasonally from 1 to 8 feet bgs and flows generally to the east and northeast. The aquifer is considered to be unconfined.

This subsection summarizes the groundwater quality and potentiometric surface results during the RI, including the DPT screening and monitoring well quarterly sampling events.



3.2.1 Groundwater Potentiometric Surface

The potentiometric surface is the imaginary surface representing the total head of groundwater and defined by the level to which water will rise in a well. The potentiometric surface in the study area is generally between 1 and 8 feet bgs.

The groundwater flow direction in the vicinity of the Site is to the east with a general east-northeasterly direction dominating further east from Shady Bend Road. Table 19 summarizes groundwater elevations from each quarter of groundwater monitoring. Figure 17 illustrates the latest potentiometric surface contours based on groundwater elevations from monitoring wells collected on June 23, 2008.

The December 2006 groundwater levels are the lowest elevations and the June 2008 groundwater levels are the highest elevations for the recorded period. The groundwater fluctuations between these periods are approximately 4 feet. This fluctuation in groundwater elevation can be attributed to the seasonal differences in precipitation.

3.2.2 Slug Test Results

Following the completion of the slug tests, groundwater level data was corrected for atmospheric pressure effects and compiled in graphical plots and tables detailing displacement and recovery versus time. Hydraulic properties were calculated and the assumptions and limitations of the test parameters were evaluated. Finally, the Site Conceptual Model (SCM) was revised to reflect conditions determined from the test results.

3.2.2.1 AQTESOLV Analysis

The aquifer modeling software AQTESOLV was utilized for groundwater level data analysis. A model of hydraulic conditions was developed and is presented in Appendix J.

Raw data showed a period of water level fluctuation due to the oscillation of groundwater during the pre-test pressurization phase that preceded rapid (instantaneous) depressurization and recovery in a high conductivity aquifer. During the data filtering process, the water level indicating the initial displacement was identified, and all preceding water level fluctuations



(resultant of pressurization) were deleted. The initial displacement values for each test were set to time = zero for direct input into AQTESOLV.

The groundwater level data was curve-matched to type curves derived from the Butler (1998) solutions for estimating hydraulic conductivity.

Butler (1998) extended the Hvorslev (1951) solution for a single-well slug test in a homogeneous, anisotropic confined aquifer to include inertial effects in the test well. The Butler solution predicts the theoretical change in water level in the test well. The solution accounts for oscillatory water-level response sometimes observed in aquifers of high hydraulic conductivity.

The groundwater level data was reviewed in AQTESOLV using the Butler (1998) solution to develop initial estimates for hydraulic conductivity (K) and transmissivity (T). The solution type curves were matched to test data using visual methods and manual adjustment of the effective water column length (L_e). Following manual and visual adjustment, each curve was automatically matched for the best fit.

Several parameters and assumptions were required to evaluate the data:

- Aquifer thickness (b) – Aquifer thickness was estimated from direct-push borings advanced during previous phases of investigation near the test well locations. Estimated aquifer thickness for each well is presented in Appendix J.
- Homogeneity of aquifer materials – The aquifer was assumed to consist of homogenous sediment throughout the test area.
- Horizontal and vertical anisotropy – the aquifer was assumed to be isotropic, that is, groundwater flow is equal in all directions.

Following the completion of AQTESOLV analysis, the hydraulic conductivity estimates for each test iteration were averaged for each test well. K-values ranged from 45 to 230 ft/day. These values are generally typical of a poorly graded clean sand (Freeze & Cherry, 1979).

Hydraulic conductivity values for each test are presented in Appendix J.



The groundwater flow rate, or seepage velocity, was estimated using Darcy's Law, as presented below:

$$V_s = \frac{q}{n} = \frac{Q/A}{n} = \frac{K \, dh/dl}{n}$$

where

V_s = seepage velocity

$q = Q/A$ = specific discharge or discharge per unit area of cross-sectional flow

n = porosity (in decimal form)

Q = discharge

A = the area of cross-sectional flow

K = hydraulic conductivity

dh/dl = hydraulic gradient

Following the calculation of bulk aquifer properties, the data was applied to the SCM to reflect actual aquifer conditions. The SCM and aquifer properties will be used in evaluation of future corrective action at the site.

The range of AQTESOLV estimates of bulk hydraulic properties for the aquifer are:

- Hydraulic Conductivity (K) – 45 to 230 ft/day
- Transmissivity (T) – 4,130 to 20,963 ft²/day
- Average Seepage Velocity (V_s) – 200 ft/yr at the time of the slug testing between monitoring wells MW-NSC-02A and MW-NSC-07A

AQTESOLV data report and plots are compiled and presented in Appendix J.

3.3 CHEMICAL DISTRIBUTION

3.3.1 Soil

This subsection summarizes the results of the source area soil investigation activities. Eight soil samples were collected from eight borings in the vadose zone just above the water table in the former AST area (Figure 4). COI concentrations exceeded VCP RGs for the Migration to



Groundwater pathway. All detections of COIs above laboratory reporting limits are summarized in Table 3.

COIs detected in soil include:

- PCE was detected in SB-08-08 at a concentration of 23,500 µg/kg.
- Cis-1,2-DCE was detected in SB-08-08 at a concentration of 31,700 µg/kg.
- 1,1,1-TCA was detected in SB-04-08 at a concentration of 74,400 ug/kg.
- Ethylbenzene was detected in five samples at concentrations ranging from 8,580 (SB-01-08) to 918,000 µg/kg (SB-05-08).
- Toluene was detected in five samples at concentrations ranging from 9,270 (SB-01-08) to 1,260,000 µg/kg (SB-05-08).
- Xylenes (total) were detected in six samples at concentrations ranging from 2,350 (SB-08-08) to 5,980,000 µg/kg (SB-05-08).
- 1,2,4-Trimethylbenzene was detected in two samples at concentrations ranging from 2,740 ug/kg (SB-08-08) to 27,000 µg/kg (SB-04-08).

The extent of soil impact has been defined to be within the area of the lease property and north of the Site building.

The vast majority of impacted soil is within the upper seven (7) feet with impacts potentially as deep as eleven (11) feet based on PID readings. However, the shallow water table blurs the clear delineation between soil and groundwater impacts at the source area.

3.3.2 Groundwater

The extent of groundwater impact exceeding MCLs has been defined; however the nature of impact and chemical concentrations varies with geographic area. Summaries of analytical results above the laboratory reporting limits are shown in Tables 4 to 18. Cross sections of sample results are depicted in Figures 6 to 15. Reference lines for these cross sections are provided on Figure 5. The following table references the Tables and Figures by area of investigation:



AREA OF INVESTIGATION	SAMPLING AREA	ANALYTICAL DATA SUMMARY TABLE	GROUNDWATER SAMPLING CROSS-SECTION FIGURE
Source Area	Railyard	4	na
	Site	5	na
Near-Source Plume	Willow Street	6	6
	Highway 30	7	6
	Stuhr Road	8	6
Mid-Plume	Seedling Mile Access Road & Sod Farm Field	9	7
	Voss Road, Museum Drive & Swift Road	10	7
	Wainwright & Gregory Streets	11	7
	Seedling Mile Road	12	8
	Shady Bend Road	13	9
Downgradient Plume	Central Farm Fields	14	10 & 11
	Gunbarrel Road	15	12
	Capital Avenue	16	13
	Evergreen Lane, Lynn Lane & Fort Kearney Road	17	11
	Beck Road & Adjacent Field	18	14 & 15

3.3.2.1 Source Area

- Groundwater impacts at the source area are shallow in extent and occur predominately at a depth of approximately 10 feet bgs. The deepest impact was at 30 feet, however deeper samples were not impacted.
- A clean upgradient boundary was also defined at the adjacent UPRR railyard property.
- The lateral extent of groundwater impact is between Highway 30 and Seedling Mile Road.
- The following compounds in groundwater, representing a mix of aromatic and chlorinated hydrocarbons, exceeded MCLs: 1,1-DCE, cis-DCE, VC, dichloroethane, chloroethane, benzene, ethylbenzene, toluene, xylenes, and both 1,2,4- and 1,3,5-trimethylbenzene.

3.3.2.2 Near-Source Plume Area

- This area, generally from Willow Street to Stuhr Road, also exhibits shallow groundwater impacts ranging from approximately 10 to 20 feet bgs, though five samples collected at 30 feet bgs had detections above MCLs.
- The lateral extent of groundwater impact is approximately 500 feet wide, south of Seedling Mile Road.



- Along Stuhr Road only cis-DCE and VC are detected at concentrations exceeding MCLs. Significant detections of aromatic hydrocarbons were not observed beyond Willow Street.

3.3.2.3 Mid-Plume Area

- This area generally from Stuhr Road to Shady Bend Road indicates that the area of impacted groundwater is moving deeper. At Shady Bend Road, detections above the MCL range in depth from approximately 20 feet bgs to 80 feet bgs.
- The lateral extent of groundwater impact is approximately 900 feet wide, north of Seedling Mile Road.
- Along Shady Bend Road only PCE and cis-DCE are present at concentrations above the MCLs. The maximum concentrations for PCE was 19.8 ug/L. Other chlorinated hydrocarbons found at Shady Bend Road at levels not exceeding the MCLs included 1,1-DCE, 1,1,1-TCA and 1,1-DCA.

3.3.2.4 Downgradient Plume Area

- This area from Shady Bend Road to Beck Road indicates a progressive deepening of the groundwater plume. For example at Gunbarrel Road, the plume extends from approximately 40 feet bgs to 80 feet bgs and at the terminus of the plume from approximately 60 feet bgs to 80 feet bgs.
- The direction of the groundwater plume turns from an easterly direction to a northeasterly direction around Shady Bend Road and the lateral extent of groundwater impact is generally bounded by Seedling Mile Road / Fort Kearney Road on the south.
- PCE is the only COI present above the MCL at concentrations ranging up to 19.3 ug/L. PCE daughter products, including cis-DCE and 1,1-DCA are present at levels not exceeding the MCLs.
- Current data indicates that the groundwater PCE plume terminates around Beck Road, north of East Capital Avenue. The maximum concentration of PCE detected in samples along the western side of Beck Road was 1.4 ug/L at 60 feet bgs.



3.3.3 Groundwater Monitoring

The monitoring well network consists of fifty-eight (58) wells installed between December 2006 and June 2008. These wells are sampled quarterly using the PDB samplers. Detections of VOCs above the laboratory reporting limits are summarized in Table 20 and depicted on Figures 18 to 22 for various COIs.

Complete laboratory analytical reports and data verification reports are provided in Appendices K and L, respectively.

3.3.4 Private Well Sampling

During August 2006 and April through June 2008, one hundred and sixty four (164) private wells were sampled for VOCs. A summary of detections of COIs above the laboratory reporting limit is presented in Table 21. Figures 23 and 24 show the results of the private well sampling site-wide and within the focus area (between Gunbarrel Road, Capital Avenue, Beck Road and Fort Kearney Road), respectively.

Complete laboratory analytical reports and data verification reports are provided in Appendices N and O, respectively.

3.4 DATA QUALITY OBJECTIVES

Data collected in this investigation is suitable for use in site characterization and delineation. “Level II” data is a data package including summaries of surrogates, blanks and spiked samples, and is of adequate quality to support project needs. Data collected during the sampling events discussed in this RI were evaluated by the data quality indicators below.

- **Precision:** Precision measures the reproducibility of measurements under a given set of conditions. Precision was assessed by calculating relative percent difference (RPD) for laboratory and field duplicate sample analyses. Acceptance criteria are 35 percent RPD for water samples and 50 percent for soil samples. If these criteria are not met, qualifiers were assigned to field duplicate sample results based upon the data quality manager’s judgment. Laboratory precision was evaluated through analysis of laboratory duplicates and matrix spike duplicates against the published SW-846 method or laboratory SOP.



- **Bias:** Bias measures the systematic or persistent distortion of a measurement process. Bias due to matrix interference was assessed through the analysis of matrix spike and matrix spike duplicate samples. Validation acceptance criteria were based upon laboratory-specific control limits.
- **Accuracy:** Accuracy measures the closeness of an individual measurement or the average of a number of measurements to the true value. Sampling accuracy was assessed by evaluating the results of equipment rinse blanks and trip blanks. Analytical accuracy was assessed through the analysis of laboratory control spike and matrix spike samples. Validation acceptance criteria were based upon laboratory-specific control limits.
- **Representativeness:** Representativeness is a qualitative parameter that expresses the degree to which sample data accurately and precisely represent a characteristic of a population, parameter variations at a sampling point, or an environmental condition. Representativeness criteria were satisfied by making certain that sampling locations were selected properly and a sufficient number of samples were collected.
- **Comparability:** Comparability is ensured by using the same sampling techniques, analytical methods, and analytical detection limits during all phases of the investigation. This project utilizes standardized sampling techniques and analytical methods.
- **Completeness:** Completeness is defined as the percentage of measurements made that are judged to be valid measurements. The completeness goal is 100 percent. However, the existing data may still be relied upon to make qualified decisions if this goal is not reached.
- **Sensitivity:** Sensitivity is the capability of a method or instrument to discriminate between different levels of the variable being measured. With the exception of dilutions or other extenuating circumstances, laboratory reporting limits for the majority of COIs should meet NDEQ VCP Remediation Goals for groundwater and for migration to groundwater (DAF20).

INTERIM REPORT
Nebraska Solvent Company – 1200 Highway 30 East
Grand Island, Nebraska



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September 19, 2008
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All laboratory analytical reports were reviewed for compliance with data quality objectives. Data verification reports are provided for all DPT soil and groundwater, monitoring well and private well laboratory analytical reports in Appendices H, L and O, respectively. Data verification was not performed on IDW or geotechnical data.



4 HYDROGEOLOGIC CONCEPTUAL MODEL

A hydrogeologic conceptual model has been developed to integrate investigation results into a framework useful for understanding the principle controls on the distribution, transport and fate of chemicals of concern in geologic media. With this understanding, and in consideration of risk attributes, a human and ecological exposure model will be developed. Ultimately the exposure model will be used to develop remedial alternatives.

4.1 GEOLOGY

The late Cretaceous Pierre Shale underlies the study area at an approximate depth of 70 to 103 feet bgs. This bedrock unit is overlain by alluvial sediments typical of braided stream depositional environments.

On a regional basis, both land elevation and the bedrock surface dip gently to the east in the direction of groundwater flow. The bedrock surface within the study area is undulating and channelized, and exhibits a broad rise in the center of the study area where bedrock depths decrease to 75 to 85 ft bgs. The depth to bedrock in the source area is approximately 90 feet bgs and increases in an easterly direction to about 103 feet bgs in the field east of Shady Bend Road at location SBD-08EC.

Throughout the study area, the sequence of unconsolidated sediments above bedrock exhibits a heterogeneous distribution of sediments that is characterized by thick medium to coarse sand layers with discontinuous lenses of finer-grained materials. In several borings, a thick (20 to 30 feet) basal clay layer is present. Graphical representations of the EC logs are provided in Appendix B.

The type and distribution of sediments in the study area are typical of braided river sedimentary systems. Portions of the study area containing coarser and thicker sands are interpreted to represent channel deposits of the ancestral Platte River. While time-correlative sand, silt and clay were deposited across river system in response to sediment supply and water energy, sediments in the main channel were more frequently reworked and finer sediments were winnowed leaving a relatively thick accumulation of sand. Finer grained deposits consisting of fine sand, silt and then



clay were deposited on point bars in response to progressively lower water energy. These fine grained deposits appear throughout the migrating channels as clay and silt lenses.

4.2 HYDROGEOLOGY

This subsection describes the conceptual model hydrogeology, including a discussion of aquifer materials, the rate and direction of groundwater flow.

4.2.1 Aquifer Materials

A shallow aquifer is developed in alluvial sediments present above the Pierre Shale bedrock. The aquifer is considered to be bound on the bottom by the shale and is primarily developed in the overlying, unconsolidated, porous and permeable sand. In the northern part of the study area, including the source area, the water table is also present in silt and clay overlying the sand. Because a continuous thick clay layer at the surface was not observed, this aquifer is considered to be unconfined.

Boring logs and EC logs indicate that the hydrostratigraphy in the study area consists of two basic units which are, (1) sand and (2) underlying shale bedrock. Within the sand unit, there are several discontinuous intervals and lenses (1 to 5 feet thick) of silt and clay present. The sand layer typically consists of a moist to saturated medium sand. The sand layer extends from near the ground surface to the bedrock layer, with a poorly developed silty clay soil horizon present across the study area. A thick basal clay layer is present in several areas of the study area. A silt zone is present in the center portion of the study area and consists of thick deposits of silt, with interbedded sand and clay lenses from the ground surface to bedrock. The shale bedrock is generally 90 feet deep, but exhibits shallower depths near the center of the study area, as the bedrock surface is undulating and channelized.

4.2.2 Groundwater Flow Direction and Rate

Groundwater recharge is considered to originate from regional and local sources. Regionally, the study area is located near large agricultural areas. Precipitation infiltration from the land surface to the water table within the study area is considered to be the major source of recharge to the regional aquifer.



Water level data in monitoring wells indicates that groundwater flow is to the east. Groundwater surface contours appear to be generally uniform across the Site. Figure 17 illustrates the potentiometric surface contours based on groundwater elevations collected from the groundwater monitoring wells on June 23, 2008. The hydraulic gradient between wells MW-NSC-02A and MW-NSC-07A during the June 2007 monitoring event was calculated to be 0.0016 ft/ft.

All other parameters held constant, groundwater will move most rapidly through sand with the highest hydraulic conductivity, represented in the study area by coarse to medium sand. The rate of groundwater flow is anticipated to decrease as particle size (and hydraulic conductivity) decreases. Therefore, the highest groundwater flow rates are anticipated to occur in coarse sand.

Hydraulic conductivity was determined from a series of slug tests in nine monitoring wells completed on June 20, 2007. Hydraulic conductivity values ranged from 45 to 230 ft/day. The associated aquifer transmissivity (T) range for the stated values of hydraulic conductivity is 4,130 to 20,963 ft²/day.

4.3 CONTAMINANT OCCURRENCE AND MIGRATION

This subsection summarizes contaminant occurrence and migration in soil and groundwater.

4.3.1 Soil

The extent of soil impacts has been evaluated by on-Site investigation and impacts to vadose-zone soil have been identified. A release of PCE and various petroleum products appear to have occurred in the area at some time in the past. Although the exact location of the release is unknown, the soil data indicates it likely occurred within the former AST area. The PCE then migrated by gravity into the soil at the Site.

Impacts to soil were shown to exceed VCP RGs for the Migration to Groundwater pathway in several on-Site borings. These soil impacts may represent an ongoing source for these constituents to groundwater.



4.3.2 Groundwater

The extent of groundwater impacts has been evaluated by the investigations at the Site and impacts to groundwater have been identified. Impacted groundwater extends from the source area approximately 3.5 miles in an easterly and northeasterly direction. The leading edge of the plume is bounded by Beck Road to the east and generally by Seedling Mile Road and Fort Kearney Road to the south and Highway 30 to the north. The width of the plume is generally less than 1,200 feet; however the plume extends to greater depths with distance from the source area. At the leading edge of the plume the vertical extent is approximately 40 to 80 feet bgs. The average groundwater flow rate through porous sand is calculated as approximately 200 ft/yr. The actual groundwater flow rate will vary across the study area as a function of the sediment type.

PCE or gasoline constituent non-aqueous phase liquids (NAPL) have not been observed in soil or as a mobile phase in groundwater wells. Any residual COIs, if present, will slowly dissolve and could create an ongoing source to the aqueous phase plume. Low concentrations of TCE and cis-1,2-DCE in groundwater may have been present in the PCE when released or may have resulted from PCE degradation. They are not thought to have been caused by a separate release.

4.4 CONCEPTUAL MODEL SUMMARY

The following points summarize the hydrogeologic conceptual model for the study area, as presented in Figure 25:

- A historical surface release(s) of PCE and aromatic hydrocarbon impacted soil and groundwater at the Site.
- Very shallow groundwater allowed COIs from the release(s) to impact the groundwater. Non-aqueous phase liquid (NAPL) has not been evident at the source area.
- Over time COIs have been transported east and then east-northeast from the Site by groundwater.
- Near the source area, aromatic hydrocarbons and some chlorinated hydrocarbons have degraded through natural processes. This is evident from the changing relative concentrations of the COIs as the groundwater moves away from the source area to the east.



- Advective chemical transport has occurred through porous sand overlying shale bedrock. As the plume moves eastward away from the Site, it also migrates to greater depth due to precipitation recharge. The area of impacted groundwater is bounded vertically by the shale bedrock. The narrow lateral extent of the plume may be related to the occurrence of historic river channel sands which facilitate groundwater flow.
- Agricultural irrigation wells and private domestic wells exist along the groundwater plume. These wells serve as potential external forces to influence the flow of impacted groundwater and exposure pathways.



5 HUMAN AND ECOLOGICAL EXPOSURE MODEL

The objective of the human and ecological exposure model is to evaluate potential human and ecological exposure pathways associated with the Site COIs. Information used to evaluate potential human and ecological exposure pathways included DPT soil and groundwater data collected during six sampling events, groundwater samples collected from a partial monitoring well network over six quarterly monitoring events, and IDW soil samples collected during the monitoring well installation in March 2008. The human and ecological exposure model is discussed and evaluated in the following sections.

5.1 SITE IMPACTED MEDIA

Based on investigations conducted to date, soil and groundwater are the impacted media. Impacted soil and groundwater are present at the Site; however only groundwater is impacted off-Site.

5.2 POTENTIAL HUMAN RECEPTORS

The Site is located within a commercial / industrial area of Grand Island. Mixed residential and agricultural areas are present approximately one-quarter of a mile downgradient of the Site and extend throughout the study area.

Municipal water is supplied to businesses and residences within a portion of the area of groundwater impact. Municipal water wells, however, are not located within the area of groundwater impact.

Private domestic water wells are located within the study area and are known to be impacted by PCE at levels above the MCL. However, the route of exposure has been eliminated through the distribution and use of bottled water as an alternate water supply. Volatile compounds in indoor residential air, derived from the use of groundwater for non-consumptive uses (for example showering), is considered to not represent an adverse risk to human health.



Based on current conditions, the following exposure pathways are considered to be potentially complete:

- On-Site Construction Worker:
 - Inhalation of COIs from groundwater and soil to outdoor air.
 - Dermal contact or ingestion of COIs in groundwater and soil.
- Off-Site Construction Worker:
 - Inhalation of COIs from groundwater to outdoor air.
 - Dermal contact or ingestion of COIs in groundwater.
- Off-Site Non-residents:
 - Vapor intrusion of COIs from groundwater to indoor air of commercial buildings. This potential route of exposure is considered relevant to areas west of Stuhr Road where shallow groundwater is impacted. The vapor intrusion pathway is considered to be less of a concern east of Stuhr Road as impacted groundwater occurs at progressively deeper depths with distance from the Site. However, as discussed in Chapter 6, further investigation of this potential route of exposure is planned.

Since groundwater from this stratigraphic interval is used as a regional potable water source, the following future hypothetical exposure pathway is considered to be complete, in addition to those previously identified.

- Off-site residents and non-residents (future hypothetical groundwater use):
 - Ingestion of and dermal contact with COIs in groundwater.



5.3 POTENTIAL ECOLOGICAL RECEPTORS

Land use at and near the Site is limited to commercial and industrial use properties. There are no signs of stressed vegetation on or near the Site. Aquatic and/or terrestrial receptors on and off-site were not identified.

5.4 POTENTIAL EXPOSURE SUMMARY

The following comments summarize potential exposures at the Site and in downgradient affected areas:

- During investigation activities, the use of groundwater as a domestic source of drinking water was identified as a completed exposure pathway. Bottled water was supplied to affected residents to provide an alternate water supply thereby eliminating the route of exposure. An alternative water supply will be utilized to mitigate this potential route of exposure until groundwater protection standards can be met. Volatilization of PCE from groundwater (e.g., during showering) is considered to not represent an adverse risk to human health.
- A potentially complete route of exposure is vapor intrusion of COIs from the groundwater table to indoor air; however this potential exposure route is considered to be limited to commercial buildings near the Site. Investigations are planned to document the significance, if any, of this potential exposure route.
- Construction worker exposure to impacted media is potentially complete.
- The future hypothetical use of groundwater as a municipal water source represents a potential exposure route; however such use is not contemplated at this time. COIs in groundwater do not appear to be a threat to the any existing municipal well field.



6 SUMMARY AND CONCLUSIONS

This section summarizes findings that support the specific objectives of the RI, including the following:

- Determination of the lateral and vertical extent of groundwater impacted by chlorinated VOCs.
- Characterization of potential additional sources of VOC loading to the groundwater plume.
- Evaluation of baseline routes of exposure and receptors.
- Collection of data to support the evaluation and design of potential response actions.
- Ongoing activities to mitigate exposures and remediate the environmental impacts.

6.1 SUMMARY

The nature and extent of VOC impact to soil and water has been defined and information has been used to develop a conceptual model for VOC fate and transport. Information regarding potential additional sources was also considered. This section summarizes key findings of the RI.

6.1.1 Nature and Extent of Impact

Historical releases of chemical solvents occurred in an area of former ASTs at the Site. These releases impacted soil and groundwater. NAPL was not evident at the source area during RI activities.

Over time, COIs have dissolved into groundwater and have been transported eastward and northeastward from the Site. The VOC plume has migrated to greater depths with distance from the source area. Groundwater impacts are limited to sand-rich sediments overlying shale bedrock.

COIs have impacted residential drinking water wells in an area generally between Gunbarrel Road and Beck Road, and Fort Kearney Road and East Capital Drive. Bottled water has been supplied to residents to eliminate the use of impacted groundwater for drinking and cooking and to provide an alternate source of potable water.



6.2 PROPOSED WORK

Based on the RI results, the following work is proposed to complete site characterization activities and to develop a plan for remedial actions.

- Though the extent of groundwater impact has been defined using DPT groundwater sampling, additional wells will be necessary to complete the down-gradient end of the monitoring well network.
- A soil vapor study will be conducted to evaluate the potential for the migration of volatile compounds from groundwater to indoor air.
- Residential groundwater treatment systems will be selected and proposed to NDEQ for approval and installation.
- Groundwater monitoring of both the monitoring well network and the private water wells will continue during the remedial action planning and remedy selection process.



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TABLES

Table 1
DPT Investigation Soil and Groundwater Sample Summary
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample Media / Investigation Area	Number of Sample Locations per Area	Number of Samples Collected per Area	Sample Location IDs per Area	Sampling Depths By Area (ft bgs)	Sample Date
Soil					
Deep Soil Cores NSC Property	1	0	na	Boring used to calibrate EC logs.	4/19/2006
Shallow Soil Cores NSC Property	8	8	SB-01	7-8 feet bgs	4/19/2006
			SB-02	8-9 feet bgs	4/19/2006
			SB-03	8-9 feet bgs	4/19/2006
			SB-04	7-8 feet bgs	4/19/2006
			SB-05	7-8 feet bgs	4/19/2006
			SB-06	6-7 feet bgs	4/19/2006
			SB-07	7-8 feet bgs	4/19/2006
			SB-08	7-8 feet bgs	4/19/2006
Groundwater					
Railyard	7	14	GW-57	30, 50	4/26/2006
			GW-58	30, 50	4/26/2006
			GW-59	30, 50	4/26/2006
			GW-60	30, 50	4/26/2006
			GW-61	30, 50	4/26/2006
			GW-62	30, 50	4/26/2006
			GW-63	30, 50	4/26/2006
NSC Property & Immediate Vicinity	19	43	GW-01	10, 30	4/24/2006
			GW-02	10, 30	4/24/2006
			GW-03	10, 30	4/24/2006
			GW-04	10, 30	4/24/2006
			GW-05	10, 30	4/20/2006
			GW-05	20	4/27/2006
			GW-06	10, 30	4/20/2006
			GW-07	10, 30	4/20/2006
			GW-08	10, 30, 50	4/20/2006
			GW-09	10, 30	4/20/2006
			GW-10	10, 30	4/20/2006
			GW-11	10, 30	4/20/2006
			GW-12	10, 30	4/20/2006
			GW-13	10, 30	4/20/2006
			GW-14	10, 30	4/20/2006
Willow Street	11	22	GW-69	10, 20, 30	6/26/2006
			GW-70	10, 20, 30	6/26/2006
			GW-71	10, 20, 30	6/26/2006
			GW-72	10, 20, 30	6/26/2006
			GW-72	10, 20, 30	6/26/2006
			GW-91	20, 30, 40	6/27/2006
			GW-15	10, 30	4/20/2006
			GW-16	10, 30	4/20/2006
			GW-17	10, 30	4/20/2006
			GW-18	10, 30	4/20/2006
GW-19	12, 32	4/20/2006			
GW-36	10, 30	4/25/2006			
GW-37	10, 30	4/25/2006			
GW-38	10, 30	4/25/2006			
GW-39	10, 30	4/27/2006			
GW-40	10, 30	4/27/2006			
GW-41	10, 30	4/27/2006			

Note: All samples were analyzed for VOCs using method 8260B or 8021.
Railyard samples were also analyzed for PAHs using method 8270.

Table 1
DPT Investigation Soil and Groundwater Sample Summary
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample Media / Investigation Area	Number of Sample Locations per Area	Number of Samples Collected per Area	Sample Location IDs per Area	Sampling Depths By Area (ft bgs)	Sample Date
Highway 30	29	64	GW-20	10, 30	4/21/2006
			GW-21	10, 30	4/21/2006
			GW-22	10, 30	4/21/2006
			GW-23	10, 30	4/21/2006
			GW-24	12, 32	4/21/2006
			GW-25	10, 30	4/21/2006
			GW-26	10, 30	4/21/2006
			GW-27	10, 30	4/21/2006
			GW-28	10, 30	4/21/2006
			GW-29	10, 30	4/21/2006
			GW-30	10, 30	4/21/2006
			GW-31	10, 30	4/21/2006
			GW-32	10, 30	4/21/2006
			GW-33	10, 30	4/21/2006
			GW-34	10, 30	4/24/2006
			GW-35	10, 30	4/24/2006
			GW-42	10, 30	4/25/2006
			GW-43	10, 30	4/25/2006
			GW-44	10, 30, 50	4/25/2006
			GW-45	10, 30, 50	4/25/2006
			GW-46	10, 30	4/25/2006
			GW-47	10, 30	4/25/2006
			GW-48	10, 30	4/25/2006
			GW-49	10, 30	4/25/2006
GW-50	12, 32	4/26/2006			
GW-64	10, 30	6/27/2006			
GW-73	10, 20	6/27/2006			
GW-74	10, 20	6/27/2006			
GW-123	15, 30, 45, 60, 75, 93	8/31/2006			
Stuhr Road	15	42	GW-51	10, 30	4/27/2006
			GW-52	10, 30	4/27/2006
			GW-53	10, 30	4/27/2006
			GW-54	10, 30	4/27/2006
			GW-55	10, 30	4/27/2006
			GW-56	10, 30	4/27/2006
			GW-65	10, 30	4/27/2006
			GW-66	10, 30, 50	4/27/2006
			GW-67	30, 50	4/27/2006
			GW-68	10, 30, 50	4/27/2006
			GW-178	10, 25, 40, 55	6/17/2008
			GW-179	10, 25, 40, 55	6/17/2008
			GW-180	10, 25, 40, 55	6/17/2008
			GW-181	10, 25, 40, 55	6/17/2008
GW-182	10, 25, 40, 55	6/17/2008			
Seedling Mile Access Road & Sod Farm Field	14	37	GW-75	10, 20	6/27/2006
			GW-76	10, 20	6/27/2006
			GW-77	10, 20	6/27/2006
			GW-78	10, 20	6/27/2006
			GW-79	10, 20	6/27/2006
			GW-80	10, 20	6/27/2006
			GW-81	10, 20	6/27/2006
			GW-82	10, 20	6/27/2006
			GW-83	10, 20	6/27/2006
			GW-84	10, 20	6/27/2006
			GW-92	15, 30, 45	6/29/2006
			GW-93	10, 20, 30, 40, 50, 60	6/29/2006
			GW-94	10, 20, 30, 40	6/28/2006
GW-95	10, 20, 30, 40	6/28/2006			

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Table 1
DPT Investigation Soil and Groundwater Sample Summary
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample Media / Investigation Area	Number of Sample Locations per Area	Number of Samples Collected per Area	Sample Location IDs per Area	Sampling Depths By Area (ft bgs)	Sample Date
Voss Road, Museum Road & Swift Road	26	75	GW-85	10, 20	6/28/2006
			GW-86	10, 20	6/28/2006
			GW-87	10, 20	6/28/2006
			GW-88	10, 20	6/28/2006
			GW-89	10, 20	6/28/2006
			GW-90	10, 20	6/28/2006
			GW-96	10, 20, 30, 40	6/28/2006
			GW-97	15, 30, 45, 45	6/29/2006
			GW-98	15, 30, 45	6/29/2006
			GW-99	15, 30, 45	6/29/2006
			GW-100	15, 30, 45	6/29/2006
			GW-101	15, 30, 45	6/29/2006
			GW-109	10, 30, 50	8/29/2006
			GW-110	10, 30, 50	8/29/2006
			GW-111	10, 30, 50	8/29/2006
			GW-112	10, 30, 50	8/29/2006
			GW-139	40, 60, 80	11/15/2006
			GW-140	40, 60, 80	11/15/2006
			GW-202	20, 40, 60	6/20/2008
			GW-203	15, 35, 55, 75	6/20/2008
			GW-204	10, 30, 50, 70	6/20/2008
GW-205	25, 45, 65	6/21/2008			
GW-206	20, 40, 60	6/21/2008			
GW-215	25, 45, 65	6/23/2008			
GW-216	10, 30, 50, 70	6/24/2008			
GW-217	10, 30, 50, 70	6/24/2008			
Wainwright Road & Gregory Street	13	42	GW-113	10, 30, 50	8/29/2006
			GW-114	10, 30, 50	8/29/2006
			GW-115	10, 30, 50	8/29/2006
			GW-116	10, 30, 50	8/29/2006
			GW-117	10, 30, 50	8/29/2006
			GW-141	40, 60, 80	11/15/2006
			GW-142	40, 60, 80	11/15/2006
			GW-143	40, 60, 80	11/15/2006
			GW-146	40, 60, 80	11/18/2006
			GW-207	10, 30, 50, 70	6/21/2008
			GW-208	20, 40, 60	6/21/2008
			GW-213	15, 35, 55, 75	6/23/2008
			GW-214	15, 35, 55, 75	6/23/2008
Seedling Mile Road	9	32	GW-119	10, 30, 50	8/30/2006
			GW-120	10, 30, 50	8/30/2006
			GW-121	10, 30, 50	8/30/2006
			GW-122	10, 30, 50	8/30/2006
			GW-124	20, 40, 60, 80	8/31/2006
			GW-129	20, 40, 60, 80	9/1/2006
			GW-130	20, 40, 60, 80	8/31/2006
			GW-144	20, 40, 60, 80	11/16/2006
			GW-145	20, 40, 60, 80	11/16/2006
Shady Bend Road	12	41	GW-102	10, 30, 50	8/28/2006
			GW-103	10, 30, 50, 50	8/28/2006
			GW-104	10, 30, 50	8/28/2006
			GW-105	10, 30, 50	8/28/2006
			GW-106	10, 30, 50	8/28/2006
			GW-107	10, 30, 50	8/28/2006
			GW-108	10, 30, 50	8/28/2006
			GW-118	10, 30, 50	8/30/2006
			GW-125	20, 40, 60, 80	8/31/2006
			GW-126	20, 40, 60, 80	8/31/2006
			GW-127	20, 40, 60, 80	8/31/2006
			GW-128	20, 40, 60, 80	8/31/2006

Note: All samples were analyzed for VOCs using method 8260B or 8021.
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Table 1
DPT Investigation Soil and Groundwater Sample Summary
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample Media / Investigation Area	Number of Sample Locations per Area	Number of Samples Collected per Area	Sample Location IDs per Area	Sampling Depths By Area (ft bgs)	Sample Date
Central Farm Fields	15	60	GW-131	20, 40, 60, 80	11/14/2006
			GW-132	20, 40, 60, 80	11/14/2006
			GW-133	20, 40, 60, 80	11/14/2006
			GW-134	20, 40, 60, 80	11/14/2006
			GW-135	20, 40, 60, 80	11/14/2006
			GW-136	20, 40, 60, 80	11/14/2006
			GW-137	20, 40, 60, 80	11/16/2006
			GW-138	20, 40, 60, 80	11/16/2006
			GW-161	20, 40, 60, 80	3/27/2008
			GW-162	20, 40, 60, 80	3/27/2008
			GW-163	20, 40, 60, 80	3/27/2008
			GW-164	20, 40, 60, 80	3/27/2008
			GW-165	20, 40, 60, 80	3/27/2008
			GW-176	20, 40, 60, 80	3/28/2008
GW-177	20, 40, 60, 80	3/28/2008			
Gunbarrel Road	8	32	GW-147	20, 40, 60, 80	3/25/2008
			GW-148	20, 40, 60, 80	3/25/2008
			GW-149	20, 40, 60, 80	3/25/2008
			GW-150	20, 40, 60, 80	3/25/2008
			GW-151	20, 40, 60, 80	3/25/2008
			GW-152	20, 40, 60, 80	3/25/2008
			GW-153	20, 40, 60, 80	3/25/2008
Capital Avenue	6	24	GW-154	20, 40, 60, 80	3/25/2008
			GW-155	20, 40, 60, 80	3/26/2008
			GW-156	20, 40, 60, 80	3/26/2008
			GW-159	20, 40, 60, 80	3/27/2008
			GW-160	20, 40, 60, 80	3/27/2008
			GW-169	20, 40, 60, 80	3/27/2008
Evergreen Road, Lynn Lane & Fort Kearney Road	5	20	GW-172	20, 40, 60, 80	3/28/2008
			GW-157	20, 40, 60, 80	3/26/2008
			GW-158	20, 40, 60, 80	3/26/2008
			GW-167	20, 40, 60, 80	3/27/2008
			GW-168	20, 40, 60, 80	3/27/2008
Beck Road & Adjacent Field	28	113	GW-170	20, 40, 60, 80	3/28/2008
			GW-166	20, 40, 60, 80	3/27/2008
			GW-171	20, 40, 60, 80	3/28/2008
			GW-173	20, 40, 60, 80	3/28/2008
			GW-174	20, 40, 60, 80	3/28/2008
			GW-175	20, 40, 60, 80	3/28/2008
			GW-183	10, 30, 50, 70, 85	6/17/2008
			GW-184	20, 40, 60, 80	6/18/2008
			GW-185	25, 45, 65, 85	6/18/2008
			GW-186	25, 45, 65, 85	6/18/2008
			GW-187	20, 40, 60, 80	6/18/2008
			GW-188	20, 40, 60, 80	6/18/2008
			GW-189	20, 40, 60, 80	6/18/2008
			GW-190	20, 40, 60, 80	6/18/2008
			GW-191	20, 40, 60, 80	6/19/2008
			GW-192	20, 40, 60, 80	6/19/2008
			GW-193	20, 40, 60, 80	6/19/2008
			GW-194	25, 45, 65, 85	6/19/2008
			GW-195	10, 30, 50, 70	6/19/2008
			GW-196	15, 35, 55, 75	6/19/2008
GW-197	15, 35, 55, 75	6/20/2008			
GW-198	10, 30, 50, 70	6/20/2008			
GW-199	10, 30, 50, 70	6/20/2008			
GW-200	10, 30, 50, 70	6/20/2008			
GW-201	10, 30, 50, 70	6/20/2008			
GW-209	15, 35, 55, 75	6/23/2008			
GW-210	20, 40, 60, 80	6/23/2008			
GW-211	15, 35, 55, 75	6/23/2008			
GW-212	20, 40, 60, 80	6/23/2008			
Investigation Totals	217	661			

Note: All samples were analyzed for VOCs using method 8260B or 8021.
Railyard samples were also analyzed for PAHs using method 8270.

Table 2
Monitoring Well Construction Summary
NSC 1200 Highway 30 East
Grand Island, Nebraska

Well ID	Completion Date	Total Depth	Estimated Depth to Top of Screen	Estimated Depth to Bottom of Screen	Depth to Water from TOC	Sampling Method as of July 2008	Ground Surface Elevation	MP Elevation (TOC)	Estimated Screen Interval Elevation	
									Top	Bottom
MW-NSC-01A	12/05/2006	25.00	19.5	24.5	8.84	PDB	1846.133	1845.665	1826.633	1821.633
MW-NSC-01B	12/05/2006	40.00	34.5	39.5	8.60	PDB	1845.891	1845.344	1811.391	1806.391
MW-NSC-02A	12/04/2006	15.50	10.0	15.0	0.97	PDB	1837.995	1837.461	1827.995	1822.995
MW-NSC-02B	12/04/2006	30.50	25.0	30.0	1.34	PDB	1838.056	1837.844	1813.056	1808.056
MW-NSC-02C	12/04/2006	50.50	45.0	50.0	1.11	PDB	1837.963	1837.844	1792.963	1787.963
MW-NSC-03A	12/04/2006	15.50	10.0	15.0	0.78	PDB	1837.359	1837.086	1827.359	1822.359
MW-NSC-04A	12/05/2006	15.50	10.0	15.0	1.26	PDB	1837.536	1837.242	1827.536	1822.536
MW-NSC-04B	12/05/2006	30.50	25.0	30.0	0.81	PDB	1836.855	1836.292	1813.855	1808.855
MW-NSC-05A	12/04/2006	15.50	10.0	15.0	2.09	PDB	1838.395	1838.010	1828.395	1823.395
MW-NSC-06A	12/05/2006	15.50	10.0	15.0	3.90	PDB	1837.877	1837.603	1827.877	1822.877
MW-NSC-07A	12/05/2006	15.50	10.0	15.0	2.32	PDB	1836.516	1836.190	1826.516	1821.516
MW-NSC-07B	12/06/2006	35.50	30.0	35.0	2.15	PDB	1836.509	1836.024	1806.509	1801.509
MW-NSC-07C	12/06/2006	50.50	45.0	50.0	2.37	PDB	1836.491	1836.149	1791.491	1786.491
MW-NSC-08A	12/05/2006	15.50	10.0	15.0	2.01	PDB	1836.130	1835.766	1826.130	1821.130
MW-NSC-08B	12/06/2006	35.50	30.0	35.0	2.16	PDB	1836.170	1835.953	1806.170	1801.170
MW-NSC-08C	6/23/2008	50.50	45.0	50.0	1.53	PDB	1836.095	1835.818	1791.095	1786.095
MW-NSC-09B	3/25/2008	25.50	20.0	25.0	2.68	PDB	1834.715	1834.090	1814.715	1809.715
MW-NSC-10B	3/25/2008	30.50	25.0	30.0	2.40	PDB	1834.344	1833.807	1809.344	1804.344
MW-NSC-10C	3/25/2008	60.50	55.0	60.0	2.43	PDB	1834.194	1833.845	1779.194	1774.194
MW-NSC-11B	3/25/2008	30.50	25.0	30.0	3.98	PDB	1834.883	1834.395	1809.883	1804.883
MW-NSC-12B	4/01/2008	30.50	25.0	30.0	4.48	PDB	1834.202	1833.982	1809.202	1804.202
MW-NSC-13C	4/02/2008	60.50	55.0	60.0	4.23	PDB	1833.901	1833.617	1778.901	1773.901
MW-NSC-14B	4/02/2008	25.50	20.0	25.0	3.91	PDB	1833.802	1833.378	1813.802	1808.802
MW-NSC-14D	4/02/2008	75.50	70.0	75.0	3.67	PDB	1833.888	1833.143	1763.888	1758.888
MW-NSC-15B	4/02/2008	40.50	35.0	40.0	4.69	PDB	1834.272	1833.923	1799.272	1794.272
MW-NSC-15D	3/29/2008	70.50	65.0	70.0	4.84	PDB	1834.459	1834.187	1769.459	1764.459
MW-NSC-16C	4/01/2008	55.50	50.0	55.0	4.89	PDB	1833.298	1832.913	1783.298	1778.298
MW-NSC-17A	3/27/2008	20.50	15.0	20.0	5.22	PDB	1833.589	1833.245	1818.589	1813.589
MW-NSC-17C	3/27/2008	45.50	40.0	45.0	5.05	PDB	1833.492	1832.985	1793.492	1788.492
MW-NSC-17D	3/27/2008	75.50	70.0	75.0	5.20	PDB	1833.474	1833.216	1763.474	1758.474
MW-NSC-18C	3/28/2008	45.50	40.0	45.0	4.63	PDB	1833.045	1832.795	1793.045	1788.045
MW-NSC-19B	3/28/2008	30.50	25.0	30.0	4.58	PDB	1833.108	1832.573	1808.108	1803.108
MW-NSC-20B	3/26/2008	30.50	25.0	30.0	2.46	PDB	1829.497	1828.949	1804.497	1799.497
MW-NSC-20D	3/26/2008	70.50	65.0	70.0	2.61	PDB	1829.519	1829.170	1764.519	1759.519
MW-NSC-21A	3/25/2008	20.50	15.0	20.0	4.59	PDB	1830.766	1830.182	1815.766	1810.766
MW-NSC-21C	3/31/2008	45.50	40.0	45.0	2.96	PDB	1830.291	1829.655	1790.291	1785.291
MW-NSC-21E	3/31/2008	95.50	90.0	95.0	3.48	PDB	1830.233	1830.135	1740.233	1735.233
MW-NSC-22B	4/01/2008	40.50	35.0	40.0	3.67	PDB	1830.981	1830.611	1795.981	1790.981
MW-NSC-25C	6/26/2008	50.50	45.0	50.0	2.60	PDB	1822.866	1822.142	1777.866	1772.866
MW-NSC-26A	6/25/2008	20.50	15.0	20.0	4.25	PDB	1823.506	1823.006	1808.506	1803.506
MW-NSC-26C	6/25/2008	50.50	45.0	50.0	4.30	PDB	1823.500	1823.075	1778.500	1773.500
MW-NSC-26D	6/25/2008	80.50	75.0	80.0	4.30	PDB	1823.463	1823.073	1748.463	1743.463
MW-NSC-27A	6/25/2008	20.50	15.0	20.0	4.10	PDB	1823.297	1822.894	1808.297	1803.297
MW-NSC-27C	6/25/2008	50.50	45.0	50.0	3.97	PDB	1823.204	1822.834	1778.204	1773.204
MW-NSC-27D	6/25/2008	80.50	75.0	80.0	3.80	PDB	1823.144	1822.764	1748.144	1743.144
MW-NSC-28B	6/26/2008	40.50	35.0	40.0	3.64	PDB	1823.718	1823.478	1788.718	1783.718
MW-NSC-28D	6/24/2008	70.50	65.0	70.0	3.52	PDB	1823.584	1823.312	1758.584	1753.584
MW-NSC-29D	6/24/2008	75.50	70.0	75.0	7.50	PDB	1827.072	1826.688	1757.072	1752.072
MW-NSC-30C	6/19/2008	60.50	55.0	60.0	3.90	PDB	1820.203	1819.779	1765.203	1760.203
MW-NSC-31C	6/19/2008	50.50	45.0	50.0	4.10	PDB	1820.087	1819.697	1775.087	1770.087
MW-NSC-31D	6/19/2008	75.50	70.0	75.0	4.15	PDB	1820.031	1819.701	1750.031	1745.031
MW-NSC-32A	6/18/2008	20.50	15.0	20.0	4.15	PDB	1819.707	1819.229	1804.707	1799.707
MW-NSC-32C	6/18/2008	50.50	45.0	50.0	4.15	PDB	1819.408	1819.256	1774.408	1769.408
MW-NSC-32E	6/18/2008	84.50	79.0	84.0	2.83	PDB	1818.788	1818.470	1739.788	1734.788
MW-NSC-33A	6/17/2008	20.50	15.0	20.0	3.15	PDB	1818.929	1818.743	1803.929	1798.929
MW-NSC-34C	6/17/2008	60.50	55.0	60.0	4.62	PDB	1820.808	1820.560	1765.808	1760.808
MW-NSC-35C	6/20/2008	50.50	45.0	50.0	5.40	PDB	1819.731	1819.419	1774.731	1769.731
MW-NSC-36B	6/26/2008	25.50	20.0	25.0	1.68	PDB	1836.221	1835.943	1816.221	1811.221

PDB = Passive Diffusion Bag sampler with poly tether suspended in the middle of the screened interval.

All wells flush mount.

Total Depth based on well completion logs.

All wells are constructed with Schedule 40, 2 inch PVC with 5 feet of screen.

Depth to Water from TOC measured in June 2008.

Wells installed in June 2008 have not been sampled.

All units in feet unless otherwise noted

Table 3
DPT Soil Results - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			SB-01-08	SB-02-09	SB-03-09	SB-04-08	SB-05-08	SB-06-07	SB-08-08
Sample Date			4/19/2006	4/19/2006	4/19/2006	4/19/2006	4/19/2006	4/19/2006	4/19/2006
Depth Interval			7 - 8	8 - 9	8 - 9	7 - 8	7 - 8	6 - 7	7 - 8
Chemical Name	VCP RG	Unit							
1,1,1-Trichloroethane	1,900	ug/kg				74,400			
1,2,4-Trimethylbenzene (Pseudocumene)	480	ug/kg				27,000			2,740
Acetone		ug/kg						20	
cis-1,2-Dichloroethene	400	ug/kg							31,700
Ethylbenzene	13,000	ug/kg	8,580	184,000	101,000	393,000	918,000		
ISOPROPYLBENZENE (CUMENE)		ug/kg		2,610					
N-BUTYLBENZENE		ug/kg		2,450					
Tetrachloroethene (PCE)	58	ug/kg							23,500
Toluene	12,000	ug/kg	9,270	280,000	963,000	945,000	1,260,000		
Xylenes (Total)	210,000	ug/kg	86,100	927,000	491,000	2,020,000	5,980,000		2,350

Note: **bold** values denote concentrations above VCP RG

Table 4
DPT Groundwater Results - Railyard - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-57-30	GW-57-30	GW-57-50	GW-60-30	GW-61-30	GW-61-30
Sample Date			4/26/2006	4/26/2006	4/26/2006	4/26/2006	4/26/2006	4/26/2006
Depth Interval			28 - 32	28 - 32	48 - 52	28 - 32	28 - 32	28 - 32
Analytical Method			SW8270	SW8260	SW8270	SW8270	SW8270	SW8260
Chemical Name	VCP RG	Unit						
1,1,1-Trichloroethane	200	ug/L		4.9				
1,1-Dichloroethane	200	ug/L		1.1				
1,1-Dichloroethene	7	ug/L		3.8				
1,3,5-Trimethylbenzene (Mesitylene)	3.1	ug/L		1.3				
Acenaphthene	550	ug/L					2.3	
Acenaphthylene		ug/L					0.48	
Anthracene	43	ug/L					0.16	
Benzene	5	ug/L						
CYMENE	170	ug/L						
Ethylbenzene	700	ug/L		1.3				14.7
Fluorene	370	ug/L			0.18		2.7	
Isopropylbenzene (Cumene)	170	ug/L						5.5
Methyl(Tert)Butyl Ether (MTBE)	3.9	ug/L						
Naphthalene	0.000028	ug/L	0.25		1.0	0.12	149	154
n-Butylbenzene	370	ug/L						5.5
n-Propylbenzene	370	ug/L						7.8
Phenanthrene		ug/L	0.17		0.72	0.11	2.0	
sec-Butylbenzene	370	ug/L						
Xylenes (Total)	10,000	ug/L		6.7				

Bold values indicate concentrations above VCP RG.

Table 4
DPT Groundwater Results - Railyard - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-61-50	GW-63-30	GW-63-30
Sample Date			4/26/2006	4/26/2006	4/26/2006
Depth Interval			48 - 52	28 - 32	28 - 32
Analytical Method			SW8270	SW8270	SW8260
Chemical Name	VCP RG	Unit			
1,1,1-Trichloroethane	200	ug/L			
1,1-Dichloroethane	200	ug/L			
1,1-Dichloroethene	7	ug/L			
1,3,5-Trimethylbenzene (Mesitylene)	3.1	ug/L			
Acenaphthene	550	ug/L		1.6	
Acenaphthylene		ug/L		0.98	
Anthracene	43	ug/L			
Benzene	5	ug/L			9.9
CYMENE	170	ug/L			1.5
Ethylbenzene	700	ug/L			
Fluorene	370	ug/L		0.11	
Isopropylbenzene (Cumene)	170	ug/L			
Methyl(Tert)Butyl Ether (MTBE)	3.9	ug/L			1.2
Naphthalene	0.000028	ug/L	0.14	7.2	14
n-Butylbenzene	370	ug/L			2.1
n-Propylbenzene	370	ug/L			1.6
Phenanthrene		ug/L		0.14	
sec-Butylbenzene	370	ug/L			1.9
Xylenes (Total)	10,000	ug/L			

Bold values indicate concentrations above VCP RG.

Table 5
DPT Groundwater Results - Site and Vicinity - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-02-10	GW-02-10- BGS	GW-02-30	GW-02-30- BGS	GW-03-10	GW-03-10- BGS
Sample Date			4/24/2006	4/24/2006	4/24/2006	4/24/2006	4/24/2006	4/24/2006
Depth Interval			8 - 12	8 - 12	28 - 32	28 - 32	8 - 12	8 - 12
Chemical Name	VCP RG	Unit						
1,2,4-Trimethylbenzene (Pseudocumene)	3.1	ug/L	4.2					
1,3,5-Trimethylbenzene (Mesitylene)	3.1	ug/L	1.2					
Benzene	5	ug/L						
cis-1,2-Dichloroethene	70	ug/L						
Ethylbenzene	700	ug/L	5.3			4.4	13.4	14.7
Isopropylbenzene (Cumene)	170	ug/L	44.6 J					
n-Butylbenzene	370	ug/L						
n-Propylbenzene	370	ug/L	2.3					
sec-Butylbenzene	370	ug/L						
Styrene	100	ug/L						
Tetrachloroethene (PCE)	5	ug/L						
Toluene	1,000	ug/L						
Xylenes (Total)	10,000	ug/L	5440	2,915 E	7.7	15.2	44.9	73.9

Bold values indicate concentrations above VCP RG.

Table 5
DPT Groundwater Results - Site and Vicinity - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-04-10	GW-04-10- BGS	GW-04-30	GW-04-30- BGS	GW-05-10	GW-05-20
Sample Date			4/24/2006	4/24/2006	4/24/2006	4/24/2006	4/20/2006	4/27/2006
Depth Interval			8 - 12	8 - 12	28 - 32	28 - 32	8 - 12	18 - 22
Chemical Name	VCP RG	Unit						
1,2,4-Trimethylbenzene (Pseudocumene)	3.1	ug/L						
1,3,5-Trimethylbenzene (Mesitylene)	3.1	ug/L						
Benzene	5	ug/L						
cis-1,2-Dichloroethene	70	ug/L		47.5				
Ethylbenzene	700	ug/L	12400	13,200 E	10.6	11.3	6460	4.6
Isopropylbenzene (Cumene)	170	ug/L	86.8					
n-Butylbenzene	370	ug/L						
n-Propylbenzene	370	ug/L						
sec-Butylbenzene	370	ug/L						
Styrene	100	ug/L						
Tetrachloroethene (PCE)	5	ug/L						
Toluene	1,000	ug/L	6950	7883	31.8	26.8	125000	21.9
Xylenes (Total)	10,000	ug/L	58200	37,000 E	48.7	54.3	31500	20

Bold values indicate concentrations above VCP RG.

Table 5
DPT Groundwater Results - Site and Vicinity - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-05-30- BGS	GW-06-10	GW-06-30	GW-06-30- BGS	GW-07-10	GW-07-30 DUP-BGS
Sample Date			4/20/2006	4/20/2006	4/20/2006	4/20/2006	4/20/2006	4/20/2006
Depth Interval			28 - 32	8 - 12	28 - 32	28 - 32	8 - 12	28 - 32
Chemical Name	VCP RG	Unit						
1,2,4-Trimethylbenzene (Pseudocumene)	3.1	ug/L						
1,3,5-Trimethylbenzene (Mesitylene)	3.1	ug/L						
Benzene	5	ug/L					405	
cis-1,2-Dichloroethene	70	ug/L					2110	
Ethylbenzene	700	ug/L	36.7	4270	38.5	79.9	11000	179
Isopropylbenzene (Cumene)	170	ug/L						
n-Butylbenzene	370	ug/L						
n-Propylbenzene	370	ug/L						
sec-Butylbenzene	370	ug/L						
Styrene	100	ug/L						
Tetrachloroethene (PCE)	5	ug/L						
Toluene	1,000	ug/L	356	34700	94.9	237	51400	368
Xylenes (Total)	10,000	ug/L	141	21000	89.7	362	56700	722

Bold values indicate concentrations above VCP RG.

Table 5
DPT Groundwater Results - Site and Vicinity - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-07-30- BGS	GW-08-10	GW-08-30- BGS	GW-08-50	GW-08-50- BGS	GW-09-10
Sample Date			4/20/2006	4/20/2006	4/20/2006	4/20/2006	4/20/2006	4/20/2006
Depth Interval			28 - 32	8 - 12	28 - 32	48 - 52	48 - 52	8 - 12
Chemical Name	VCP RG	Unit						
1,2,4-Trimethylbenzene (Pseudocumene)	3.1	ug/L						1.8
1,3,5-Trimethylbenzene (Mesitylene)	3.1	ug/L						
Benzene	5	ug/L		225	4.1			
cis-1,2-Dichloroethene	70	ug/L		234	14.1			
Ethylbenzene	700	ug/L	194	14000	517	126	136	30.6
Isopropylbenzene (Cumene)	170	ug/L				2.1		
n-Butylbenzene	370	ug/L						3.4
n-Propylbenzene	370	ug/L						
sec-Butylbenzene	370	ug/L						2.7
Styrene	100	ug/L				1.8		
Tetrachloroethene (PCE)	5	ug/L			30.1			
Toluene	1,000	ug/L	412	34400	1245	137	155	
Xylenes (Total)	10,000	ug/L	801	74300	2001	474	702	67.8

Bold values indicate concentrations above VCP RG.

Table 5
DPT Groundwater Results - Site and Vicinity - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-10-10	GW-10-30- BGS	GW-11-10b	GW-69-20	GW-69-30	GW-70-20
Sample Date			4/20/2006	4/20/2006	4/20/2006	6/26/2006	6/26/2006	6/26/2006
Depth Interval			8 - 12	28 - 32	8 - 12	20 - 20	30 - 30	20 - 20
Chemical Name	VCP RG	Unit						
1,2,4-Trimethylbenzene (Pseudocumene)	3.1	ug/L	10.6					
1,3,5-Trimethylbenzene (Mesitylene)	3.1	ug/L	3.6					
Benzene	5	ug/L						
cis-1,2-Dichloroethene	70	ug/L			2.2			
Ethylbenzene	700	ug/L	158					
Isopropylbenzene (Cumene)	170	ug/L						
n-Butylbenzene	370	ug/L	3.1					
n-Propylbenzene	370	ug/L	2.6					
sec-Butylbenzene	370	ug/L						
Styrene	100	ug/L						
Tetrachloroethene (PCE)	5	ug/L						
Toluene	1,000	ug/L				1.7	1.6	1
Xylenes (Total)	10,000	ug/L	532	12.7		4.1	3.0	

Bold values indicate concentrations above VCP RG.

Table 5
DPT Groundwater Results - Site and Vicinity - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-71-10	GW-71-20	GW-71-30
Sample Date			6/26/2006	6/26/2006	6/26/2006
Depth Interval			10 - 10	20 - 20	30 - 30
Chemical Name	VCP RG	Unit			
1,2,4-Trimethylbenzene (Pseudocumene)	3.1	ug/L			
1,3,5-Trimethylbenzene (Mesitylene)	3.1	ug/L			
Benzene	5	ug/L			
cis-1,2-Dichloroethene	70	ug/L	20.3		
Ethylbenzene	700	ug/L	477	12.3	4.4
Isopropylbenzene (Cumene)	170	ug/L			
n-Butylbenzene	370	ug/L			
n-Propylbenzene	370	ug/L			
sec-Butylbenzene	370	ug/L			
Styrene	100	ug/L			
Tetrachloroethene (PCE)	5	ug/L			
Toluene	1,000	ug/L	1720	55.8	24.1
Xylenes (Total)	10,000	ug/L	1580	45.6	16.3

Bold values indicate concentrations above VCP RG.

Table 6
DPT Groundwater Results - Willow Street - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-15-10	GW-15-10- BGS	GW-15-30	GW-15-30- BGS	GW-16-10	GW-16-10- BGS
Sample Date			4/20/2006	4/20/2006	4/20/2006	4/20/2006	4/20/2006	4/20/2006
Depth Interval			8 - 12	8 - 12	28 - 32	28 - 32	8 - 12	8 - 12
Chemical Name	VCP RG	Unit						
1,1-Dichloroethane	200	ug/L	546		2.7		1050	
1,1-Dichloroethene	7	ug/L						
1,2,4-Trimethylbenzene (Pseudocumene)	3.1	ug/L	102				12.0	
Benzene	5	ug/L		145			44.3	37.9
Chloroethane	23	ug/L					160	
cis-1,2-Dichloroethene	70	ug/L		175			76.4	78.5
Ethylbenzene	700	ug/L	1940	5965		8.8	666	730
Toluene	1,000	ug/L	12100	31010	57.7	52.3	40.6	35.7
Trichloroethene (TCE)	5	ug/L		23.0				
Vinyl chloride	2	ug/L	173	420			271	307
Xylenes (Total)	10,000	ug/L	8660	29616		37.2	770	956

Bold values indicate concentrations above VCP RG.

Table 6
DPT Groundwater Results - Willow Street - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-17-10	GW-17-10- BGS	GW-18-10	GW-18-10- BGS	GW-18-10- DUP-BGS	GW-18-30- BGS
Sample Date			4/20/2006	4/20/2006	4/20/2006	4/20/2006	4/20/2006	4/20/2006
Depth Interval			8 - 12	8 - 12	8 - 12	8 - 12	8 - 12	28 - 32
Chemical Name	VCP RG	Unit						
1,1-Dichloroethane	200	ug/L	3.1					
1,1-Dichloroethene	7	ug/L						
1,2,4-Trimethylbenzene (Pseudocumene)	3.1	ug/L						
Benzene	5	ug/L						
Chloroethane	23	ug/L						
cis-1,2-Dichloroethene	70	ug/L	50.6	30.3	9.5	9.7	10.9	
Ethylbenzene	700	ug/L						
Toluene	1,000	ug/L						12.6
Trichloroethene (TCE)	5	ug/L						
Vinyl chloride	2	ug/L	103	67.4				
Xylenes (Total)	10,000	ug/L						

Bold values indicate concentrations above VCP RG.

Table 6
DPT Groundwater Results - Willow Street - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-19-12- BGS	GW-37-10	GW-37-30	GW-38-10
Sample Date			4/20/2006	4/25/2006	4/25/2006	4/25/2006
Depth Interval			10 - 14	8 - 12	28 - 32	8 - 12
Chemical Name	VCP RG	Unit				
1,1-Dichloroethane	200	ug/L		1430		230
1,1-Dichloroethene	7	ug/L				26.7
1,2,4-Trimethylbenzene (Pseudocumene)	3.1	ug/L				
Benzene	5	ug/L				
Chloroethane	23	ug/L				
cis-1,2-Dichloroethene	70	ug/L		1650		3690
Ethylbenzene	700	ug/L		8570		429
Toluene	1,000	ug/L	5.3	51500	1.4	539
Trichloroethene (TCE)	5	ug/L				
Vinyl chloride	2	ug/L		1230		5050
Xylenes (Total)	10,000	ug/L	20.1	45000		424

Bold values indicate concentrations above VCP RG.

Table 7
DPT Groundwater Results - Highway 30 - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-28-10- BGS	GW-28-30	GW-29-10- BGS	GW-29-30- BGS	GW-30-10- BGS	GW-30-30- BGS	GW-31-10
Sample Date			4/21/2006	4/21/2006	4/21/2006	4/21/2006	4/21/2006	4/21/2006	4/21/2006
Depth Interval			8 - 12	28 - 32	8 - 12	28 - 32	8 - 12	28 - 32	8 - 12
Chemical Name	VCP RG	Unit							
1,1,1-Trichloroethane	200	ug/L							6.4
1,1-Dichloroethane	200	ug/L							49.4
1,1-Dichloroethene	7	ug/L							8.5
1,2,4-Trimethylbenzene	3.1	ug/L							
1,3,5-Trimethylbenzene	3.1	ug/L							
Benzene	5	ug/L							2
cis-1,2-Dichloroethene	70	ug/L	7.7	1.2	21.1	16.4	559	183	1110
CYMENE	170	ug/L							
Ethylbenzene	700	ug/L							
ISOPROPYLBENZENE	170	ug/L							
Methyl(Tert)Butyl Ether	3.9	ug/L							
Naphthalene	0.000028	ug/L							
N-BUTYLBENZENE	370	ug/L							
N-PROPYLBENZENE	370	ug/L							
SEC-BUTYLBENZENE	370	ug/L							
Tetrachloroethene (PCE)	5	ug/L		1					2.9
Toluene	1,000	ug/L							
trans-1,2-Dichloroethene	100	ug/L							11.0
Trichloroethene (TCE)	5	ug/L					6.9		5.2
Vinyl chloride	2	ug/L					62.4		140
Xylenes (Total)	10,000	ug/L							

Bold values indicate concentrations above VCP RG.

Table 7
DPT Groundwater Results - Highway 30 - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-31-10- BGS	GW-31-30- BGS	GW-32-10	GW-32-10 DUP-BGS	GW-32-10- BGS	GW-32-30	GW-32-30- BGS
Sample Date			4/21/2006	4/21/2006	4/21/2006	4/21/2006	4/21/2006	4/21/2006	4/21/2006
Depth Interval			8 - 12	28 - 32	8 - 12	8 - 12	8 - 12	28 - 32	28 - 32
Chemical Name	VCP RG	Unit							
1,1,1-Trichloroethane	200	ug/L							
1,1-Dichloroethane	200	ug/L			24.7			3.1	
1,1-Dichloroethene	7	ug/L	7.4		1.2				
1,2,4-Trimethylbenzene	3.1	ug/L							
1,3,5-Trimethylbenzene	3.1	ug/L							
Benzene	5	ug/L			1.6				
cis-1,2-Dichloroethene	70	ug/L	1248	8.1	216	269	268	7.8	10.9
CYMENE	170	ug/L							
Ethylbenzene	700	ug/L							
ISOPROPYLBENZENE	170	ug/L							
Methyl(Tert)Butyl Ether	3.9	ug/L							
Naphthalene	0.000028	ug/L							
N-BUTYLBENZENE	370	ug/L							
N-PROPYLBENZENE	370	ug/L							
SEC-BUTYLBENZENE	370	ug/L							
Tetrachloroethene (PCE)	5	ug/L			4.9				
Toluene	1,000	ug/L							
trans-1,2-Dichloroethene	100	ug/L	18.7		1.5				
Trichloroethene (TCE)	5	ug/L			6.3	8.6	9.4		
Vinyl chloride	2	ug/L	167		156	204	221		
Xylenes (Total)	10,000	ug/L							

Bold values indicate concentrations above VCP RC

Table 7
DPT Groundwater Results - Highway 30 - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-33-10	GW-33-10- BGS	GW-33-30- BGS	GW-34-10	GW-34-10- BGS	GW-35-10	GW-35-10- BGS
Sample Date			4/21/2006	4/21/2006	4/21/2006	4/24/2006	4/24/2006	4/24/2006	4/24/2006
Depth Interval			8 - 12	8 - 12	28 - 32	8 - 12	8 - 12	8 - 12	8 - 12
Chemical Name	VCP RG	Unit							
1,1,1-Trichloroethane	200	ug/L							
1,1-Dichloroethane	200	ug/L	21.6			17.3		18.7	
1,1-Dichloroethene	7	ug/L							
1,2,4-Trimethylbenzene	3.1	ug/L							
1,3,5-Trimethylbenzene	3.1	ug/L							
Benzene	5	ug/L	1.3						
cis-1,2-Dichloroethene	70	ug/L	54.1	54.2	6.5	35.7	39.8	31.1	30.1
CYMENE	170	ug/L							
Ethylbenzene	700	ug/L							
ISOPROPYLBENZENE	170	ug/L							
Methyl(Tert)Butyl Ether	3.9	ug/L							
Naphthalene	0.000028	ug/L							
N-BUTYLBENZENE	370	ug/L							
N-PROPYLBENZENE	370	ug/L							
SEC-BUTYLBENZENE	370	ug/L							
Tetrachloroethene (PCE)	5	ug/L	3.3						
Toluene	1,000	ug/L							
trans-1,2-Dichloroethene	100	ug/L							
Trichloroethene (TCE)	5	ug/L	3.9			1.6			
Vinyl chloride	2	ug/L	127	170		60.0	117	55.0	86.6
Xylenes (Total)	10,000	ug/L							

Bold values indicate concentrations above VCP RC

Table 7
DPT Groundwater Results - Highway 30 - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-35-30	GW-42-10	GW-42-30	GW-43-10	GW-43-30	GW-44-10	GW-44-30
Sample Date			4/24/2006	4/25/2006	4/25/2006	4/25/2006	4/25/2006	4/25/2006	4/25/2006
Depth Interval			28 - 32	8 - 12	28 - 32	8 - 12	28 - 32	8 - 12	28 - 32
Chemical Name	VCP RG	Unit							
1,1,1-Trichloroethane	200	ug/L							
1,1-Dichloroethane	200	ug/L	4.9					4.7	1.4
1,1-Dichloroethene	7	ug/L							
1,2,4-Trimethylbenzene	3.1	ug/L							
1,3,5-Trimethylbenzene	3.1	ug/L							
Benzene	5	ug/L							
cis-1,2-Dichloroethene	70	ug/L	4.5	2.0		14.0	16.7	109	86.5
CYMENE	170	ug/L							
Ethylbenzene	700	ug/L							
ISOPROPYLBENZENE	170	ug/L							
Methyl(Tert)Butyl Ether	3.9	ug/L							
Naphthalene	0.000028	ug/L							
N-BUTYLBENZENE	370	ug/L							
N-PROPYLBENZENE	370	ug/L							
SEC-BUTYLBENZENE	370	ug/L							
Tetrachloroethene (PCE)	5	ug/L			1.2				2.7
Toluene	1,000	ug/L							
trans-1,2-Dichloroethene	100	ug/L						1.2	1.7
Trichloroethene (TCE)	5	ug/L						1.0	
Vinyl chloride	2	ug/L	1.6					31.2	
Xylenes (Total)	10,000	ug/L							

Bold values indicate concentrations above VCP RC

Table 7
DPT Groundwater Results - Highway 30 - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-45-10	GW-45-30	GW-45-50	GW-45-50- BGS	GW-46-10	GW-46-30	GW-47-10
Sample Date			4/25/2006	4/25/2006	4/25/2006	4/25/2006	4/25/2006	4/25/2006	4/25/2006
Depth Interval			8 - 12	28 - 32	48 - 52	48 - 52	8 - 12	28 - 32	8 - 12
Chemical Name	VCP RG	Unit							
1,1,1-Trichloroethane	200	ug/L	1.1						
1,1-Dichloroethane	200	ug/L	7.0				41.5	1.7	39.3
1,1-Dichloroethene	7	ug/L					3.6		
1,2,4-Trimethylbenzene	3.1	ug/L							
1,3,5-Trimethylbenzene	3.1	ug/L							
Benzene	5	ug/L					1.7		3.4
cis-1,2-Dichloroethene	70	ug/L	259	6.5	8.0	9.4	680	10.0	110
CYMENE	170	ug/L							
Ethylbenzene	700	ug/L							
ISOPROPYLBENZENE	170	ug/L							
Methyl(Tert)Butyl Ether	3.9	ug/L							
Naphthalene	0.000028	ug/L							
N-BUTYLBENZENE	370	ug/L							
N-PROPYLBENZENE	370	ug/L							
SEC-BUTYLBENZENE	370	ug/L							
Tetrachloroethene (PCE)	5	ug/L	1.5				3.3		7.8
Toluene	1,000	ug/L							
trans-1,2-Dichloroethene	100	ug/L	4.0				5.3		1.6
Trichloroethene (TCE)	5	ug/L					4.9		8.7
Vinyl chloride	2	ug/L	15.2				172		270
Xylenes (Total)	10,000	ug/L							

Bold values indicate concentrations above VCP RC

Table 7
DPT Groundwater Results - Highway 30 - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-47-30	GW-48-10	GW-48-30	GW-49-10	GW-49-30	GW-50-12	GW-64-10
Sample Date			4/25/2006	4/25/2006	4/25/2006	4/25/2006	4/25/2006	4/26/2008	4/27/2006
Depth Interval			28 - 32	8 - 12	28 - 32	8 - 12	28 - 32	10 - 14	8 - 12
Chemical Name	VCP RG	Unit							
1,1,1-Trichloroethane	200	ug/L							
1,1-Dichloroethane	200	ug/L		25.6	4.2	17.2	5.4	12.6	6.7
1,1-Dichloroethene	7	ug/L							
1,2,4-Trimethylbenzene	3.1	ug/L							
1,3,5-Trimethylbenzene	3.1	ug/L							
Benzene	5	ug/L		1.5				3.2	
cis-1,2-Dichloroethene	70	ug/L	1.6	42.7	6.8	24.7	3.8	14.7	7.4
CYMENE	170	ug/L							
Ethylbenzene	700	ug/L							
ISOPROPYLBENZENE	170	ug/L							
Methyl(Tert)Butyl Ether	3.9	ug/L						2.4	
Naphthalene	0.000028	ug/L							
N-BUTYLBENZENE	370	ug/L							
N-PROPYLBENZENE	370	ug/L							
SEC-BUTYLBENZENE	370	ug/L							
Tetrachloroethene (PCE)	5	ug/L		2.7					
Toluene	1,000	ug/L							
trans-1,2-Dichloroethene	100	ug/L							
Trichloroethene (TCE)	5	ug/L		4.1					
Vinyl chloride	2	ug/L		120	8.0	64.9		29.2	5.8
Xylenes (Total)	10,000	ug/L							

Bold values indicate concentrations above VCP RC

Table 7
DPT Groundwater Results - Highway 30 - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-64-10- BGS	GW-73-10	GW-74-10	GW-74-20	GW-123-15
Sample Date			4/27/2006	6/27/2006	6/27/2006	6/27/2006	8/31/2006
Depth Interval			8 - 12	10 - 10	10 - 10	20 - 20	13 - 17
Chemical Name	VCP RG	Unit					
1,1,1-Trichloroethane	200	ug/L					
1,1-Dichloroethane	200	ug/L		1.6			
1,1-Dichloroethene	7	ug/L					
1,2,4-Trimethylbenzene	3.1	ug/L			510	74.5	
1,3,5-Trimethylbenzene	3.1	ug/L			156	46.4	
Benzene	5	ug/L			5.9		
cis-1,2-Dichloroethene	70	ug/L	8.5				
CYMENE	170	ug/L		2.3	38.8	12.9	
Ethylbenzene	700	ug/L			81.5		
ISOPROPYLBENZENE	170	ug/L		5.2	63.6	6.6	
Methyl(Tert)Butyl Ether	3.9	ug/L					1.4
Naphthalene	0.000028	ug/L			127		
N-BUTYLBENZENE	370	ug/L		1.7	18.3	7.9	
N-PROPYLBENZENE	370	ug/L		10.3	78.7	15.2	
SEC-BUTYLBENZENE	370	ug/L		9.6	7.5	3.5	
Tetrachloroethene (PCE)	5	ug/L					
Toluene	1,000	ug/L			6.2		
trans-1,2-Dichloroethene	100	ug/L					
Trichloroethene (TCE)	5	ug/L					
Vinyl chloride	2	ug/L					
Xylenes (Total)	10,000	ug/L			317	3.8	

Bold values indicate concentrations above VCP RC

Table 8
DPT Groundwater Results - Stuhr Road - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-51-10- BGS	GW-52-10	GW-52-10- BGS	GW-53-10- BGS	GW-53-30	GW-53-30- BGS
Sample Date			4/27/2006	4/27/2006	4/27/2006	4/27/2006	4/27/2006	4/27/2006
Depth Interval			8 - 12	8 - 12	8 - 12	8 - 12	28 - 32	28 - 32
Chemical Name	VCP RG	Unit						
1,1,1-Trichloroethane	200	ug/L						
1,1-Dichloroethane	200	ug/L		15.5			2.8	
1,1-Dichloroethene	7	ug/L						
Benzene	5	ug/L		1.0				
cis-1,2-Dichloroethene	70	ug/L	14.2	51	43.4	99.1	128	79.7
Tetrachloroethene (PCE)	5	ug/L		1.6			2.5	
trans-1,2-Dichloroethene	100	ug/L						
Trichloroethene (TCE)	5	ug/L		1.4				
Vinyl chloride	2	ug/L	30.8	60.7	78.4			

Bold values indicate concentrations above VCP RG.

Table 8
DPT Groundwater Results - Stuhr Road - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-54-10- BGS	GW-54-30- BGS	GW-65-10	GW-65-30	GW-66-10	GW-66-30
Sample Date			4/27/2006	4/27/2006	4/27/2006	4/27/2006	4/27/2006	4/27/2006
Depth Interval			8 - 12	28 - 32	8 - 12	28 - 32	8 - 12	28 - 32
Chemical Name	VCP RG	Unit						
1,1,1-Trichloroethane	200	ug/L						
1,1-Dichloroethane	200	ug/L			10.7	5.3	20.2	2.6
1,1-Dichloroethene	7	ug/L						
Benzene	5	ug/L					1.5	
cis-1,2-Dichloroethene	70	ug/L	70.1	44.7	19.5	5.8	156	48.4
Tetrachloroethene (PCE)	5	ug/L					2.8	4.3
trans-1,2-Dichloroethene	100	ug/L					1.4	1.6
Trichloroethene (TCE)	5	ug/L					2.4	
Vinyl chloride	2	ug/L			25.2	1.2	173	

Bold values indicate concentrations above VCP RG.

Table 8
DPT Groundwater Results - Stuhr Road - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-67-10	GW-67-30	GW-67-50	GW-68-10	GW-68-30	GW-178
Sample Date			4/27/2006	4/27/2006	4/27/2006	4/27/2006	4/27/2006	6/17/2008
Depth Interval			8 - 12	28 - 32	48 - 52	8 - 12	28 - 32	8 - 12
Chemical Name	VCP RG	Unit						
1,1,1-Trichloroethane	200	ug/L		2.0				
1,1-Dichloroethane	200	ug/L	2.3	2.3				
1,1-Dichloroethene	7	ug/L						
Benzene	5	ug/L						
cis-1,2-Dichloroethene	70	ug/L	76.9	82.8	2.0	3.7	1.2	6.4
Tetrachloroethene (PCE)	5	ug/L						1.0
trans-1,2-Dichloroethene	100	ug/L						
Trichloroethene (TCE)	5	ug/L						
Vinyl chloride	2	ug/L						

Bold values indicate concentrations above VCP RG.

Table 8
DPT Groundwater Results - Stuhr Road - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-178	GW-178	GW-178	GW-179	GW-179
Sample Date			6/17/2008	6/17/2008	6/17/2008	6/17/2008	6/17/2008
Depth Interval			23 - 27	38 - 42	53 - 57	23 - 27	53 - 57
Chemical Name	VCP RG	Unit					
1,1,1-Trichloroethane	200	ug/L	8.3				
1,1-Dichloroethane	200	ug/L	13				
1,1-Dichloroethene	7	ug/L	2.0				
Benzene	5	ug/L					
cis-1,2-Dichloroethene	70	ug/L	400	6.5	4.2		0.54
Tetrachloroethene (PCE)	5	ug/L	3.6			1.1	
trans-1,2-Dichloroethene	100	ug/L	2.5				
Trichloroethene (TCE)	5	ug/L	2.6				
Vinyl chloride	2	ug/L					

Bold values indicate concentrations above VCP RG.

Table 9
DPT Groundwater Results - Seedling Mile Access Road and Sod Farm Field - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID	GW-75-10	GW-77-10	GW-77-20	GW-78-10	GW-78-20	GW-79--10	GW-79--20	GW-80-10		
Sample Date	6/27/2006	6/27/2006	6/27/2006	6/27/2006	6/27/2006	6/27/2006	6/27/2006	6/27/2006		
Depth Interval	10 - 10	10 - 10	20 - 20	10 - 10	20 - 20	10 - 10	20 - 20	10 - 10		
Chemical Name	VCP RG	Unit								
1,1,1-Trichloroethane	200	ug/L				1.1		1.5		
1,1-Dichloroethane	200	ug/L		2.2	4.0	5.4	9.6	5.0	10.2	1.4
cis-1,2-Dichloroethene	70	ug/L			2.3	34.1	91.1	46.0	100	41.2
Methyl(Tert)Butyl Ether	3.9	ug/L	10.5							
Tetrachloroethene (PCE)	5	ug/L				1.8	5.9	1.4	1.8	
trans-1,2-Dichloroethene	100	ug/L					1.1		2.4	
Trichloroethene (TCE)	5	ug/L					2.0			
Vinyl chloride	2	ug/L				1.1			1.1	

Bold values indicate concentrations above VCP RG.

Table 9
DPT Groundwater Results - Seedling Mile Access Road and Sod Farm Field - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-80-20	GW-81-10	GW-81-20	GW-82-10	GW-82-20	GW-92-15	GW-92-30	GW-92-45
Sample Date			6/27/2006	6/27/2006	6/27/2006	6/27/2006	6/27/2006	6/29/2006	6/29/2006	6/29/2006
Depth Interval			20 - 20	10 - 10	20 - 20	10 - 10	20 - 20	15 - 15	30 - 30	45 - 45
Chemical Name	VCP RG	Unit								
1,1,1-Trichloroethane	200	ug/L								
1,1-Dichloroethane	200	ug/L	2.2					2.7	1.2	
cis-1,2-Dichloroethene	70	ug/L	87.9	17.2	23.3	3.3	6.2	6.8	2.5	
Methyl(Tert)Butyl Ether	3.9	ug/L								
Tetrachloroethene (PCE)	5	ug/L	1.5	2.0	1.8	1.7	1.4			1.1
trans-1,2-Dichloroethene	100	ug/L	1.2							
Trichloroethene (TCE)	5	ug/L								
Vinyl chloride	2	ug/L								

Bold values indicate concentrations above VCP |

Table 9
DPT Groundwater Results - Seedling Mile Access Road and Sod Farm Field - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-93-10	GW-93-20	GW-93-30	GW-93-40	GW-93-50	GW-93-60	GW-94-10	GW-94-20
Sample Date			6/28/2006	6/28/2006	6/28/2006	6/28/2006	6/29/2006	6/29/2006	6/28/2006	6/28/2006
Depth Interval			10 - 10	20 - 20	30 - 30	40 - 40	50 - 50	60 - 60	10 - 10	20 - 20
Chemical Name	VCP RG	Unit								
1,1,1-Trichloroethane	200	ug/L		1.8	1.5					
1,1-Dichloroethane	200	ug/L	2.4	7.8	4.8	2.4				1.0
cis-1,2-Dichloroethene	70	ug/L	43.0	216	152	25.7	1.1	2.0	12.7	25.9
Methyl(Tert)Butyl Ether	3.9	ug/L								
Tetrachloroethene (PCE)	5	ug/L	1.1	2.0	1.9	1.3				1.4
trans-1,2-Dichloroethene	100	ug/L		2.5	3.3					
Trichloroethene (TCE)	5	ug/L								
Vinyl chloride	2	ug/L								

Bold values indicate concentrations above VCP |

Table 10
DPT Groundwater Results - Voss Road, Museum Drive and Swift Road - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-85-10	GW-85-20	GW-86-10	GW-86-20	GW-87-10	GW-87-20
Sample Date			6/28/2006	6/28/2006	6/28/2006	6/28/2006	6/28/2006	6/28/2006
Depth Interval			10 - 10	20 - 20	10 - 10	20 - 20	10 - 10	20 - 20
Chemical Name	VCP RG	Unit						
1,1,1-Trichloroethane	200	ug/L				1.3	3.4	4.5
1,1-Dichloroethane	200	ug/L		5.5	6.5	9.8	6.5	8.3
1,1-Dichloroethene	7	ug/L						1.5
1,2,4-Trimethylbenzene (Pseudocumene)	3.1	ug/L						
1,3,5-Trimethylbenzene (Mesitylene)	3.1	ug/L						
cis-1,2-Dichloroethene	70	ug/L	1.5	23.8	63.5	129	202	234
Ethylbenzene	700	ug/L						
Methyl(Tert)Butyl Ether	3.9	ug/L						
N-BUTYLBENZENE	370	ug/L						
N-PROPYLBENZENE	370	ug/L						
Tetrachloroethene (PCE)	5	ug/L		1.4	2.7	4.5	6.9	9.1
Toluene	1,000	ug/L						
trans-1,2-Dichloroethene	100	ug/L				2.5	4.8	4.2
Trichloroethene (TCE)	5	ug/L						1.0
Xylenes (Total)	10,000	ug/L						

Bold values indicate concentrations above VCP RG.

Table 10
DPT Groundwater Results - Voss Road, Museum Drive and Swift Road - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-88-10	GW-88-20	GW-89-10	GW-89-20	GW-96-10	GW-96-20
Sample Date			6/28/2006	6/28/2006	6/28/2006	6/28/2006	6/28/2006	6/28/2006
Depth Interval			10 - 10	20 - 20	10 - 10	20 - 20	10 - 10	20 - 20
Chemical Name	VCP RG	Unit						
1,1,1-Trichloroethane	200	ug/L	1.7	1.3				
1,1-Dichloroethane	200	ug/L	2.3	1.7			4.6	5.9
1,1-Dichloroethene	7	ug/L						
1,2,4-Trimethylbenzene (Pseudocumene)	3.1	ug/L						
1,3,5-Trimethylbenzene (Mesitylene)	3.1	ug/L						
cis-1,2-Dichloroethene	70	ug/L	79.1	70.4	2.3	17.2	21.6	25.1
Ethylbenzene	700	ug/L						
Methyl(Tert)Butyl Ether	3.9	ug/L						
N-BUTYLBENZENE	370	ug/L						
N-PROPYLBENZENE	370	ug/L						
Tetrachloroethene (PCE)	5	ug/L	2.8	2.3		1.2	1.2	2.3
Toluene	1,000	ug/L						
trans-1,2-Dichloroethene	100	ug/L	1.6	1.4				
Trichloroethene (TCE)	5	ug/L						
Xylenes (Total)	10,000	ug/L						

Bold values indicate concentrations above VCP RG.

Table 10
DPT Groundwater Results - Voss Road, Museum Drive and Swift Road - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-96-30	GW-96-40	GW-97-15	GW-97-30	GW-97-45	GW-97-45-DUP
Sample Date			6/28/2006	6/28/2006	6/29/2006	6/29/2006	6/29/2006	6/29/2006
Depth Interval			30 - 30	40 - 40	15 - 15	30 - 30	45 - 45	45 - 45
Chemical Name	VCP RG	Unit						
1,1,1-Trichloroethane	200	ug/L						
1,1-Dichloroethane	200	ug/L	4.7		1.3	7.6	6.4	4.7
1,1-Dichloroethene	7	ug/L						
1,2,4-Trimethylbenzene (Pseudocumene)	3.1	ug/L						
1,3,5-Trimethylbenzene (Mesitylene)	3.1	ug/L						
cis-1,2-Dichloroethene	70	ug/L	23.8	1.2	3.2	29.4	8.1	7.9
Ethylbenzene	700	ug/L						
Methyl(Tert)Butyl Ether	3.9	ug/L						
N-BUTYLBENZENE	370	ug/L						
N-PROPYLBENZENE	370	ug/L						
Tetrachloroethene (PCE)	5	ug/L	2.0	2.3	1.1	2.6	2.2	1.4
Toluene	1,000	ug/L						
trans-1,2-Dichloroethene	100	ug/L						
Trichloroethene (TCE)	5	ug/L						
Xylenes (Total)	10,000	ug/L						

Bold values indicate concentrations above VCP RG.

Table 10
DPT Groundwater Results - Voss Road, Museum Drive and Swift Road - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-98-15	GW-98-30	GW-98-45	GW-99-15	GW-99-30	GW-99-45
Sample Date			6/29/2006	6/29/2006	6/29/2006	6/29/2006	6/29/2006	6/29/2006
Depth Interval			15 - 15	30 - 30	45 - 45	15 - 15	30 - 30	45 - 45
Chemical Name	VCP RG	Unit						
1,1,1-Trichloroethane	200	ug/L		1.5			3.6	
1,1-Dichloroethane	200	ug/L	4.2	7.5	9.7	5.2	4.6	9.5
1,1-Dichloroethene	7	ug/L					1.1	
1,2,4-Trimethylbenzene (Pseudocumene)	3.1	ug/L						
1,3,5-Trimethylbenzene (Mesitylene)	3.1	ug/L						
cis-1,2-Dichloroethene	70	ug/L	96.6	142	32.4	233	195	34.8
Ethylbenzene	700	ug/L						
Methyl(Tert)Butyl Ether	3.9	ug/L						
N-BUTYLBENZENE	370	ug/L						
N-PROPYLBENZENE	370	ug/L						
Tetrachloroethene (PCE)	5	ug/L	3.1	6.7	2.9	7.3	6.7	3.4
Toluene	1,000	ug/L						
trans-1,2-Dichloroethene	100	ug/L	1.7	2.3			2.1	1.2
Trichloroethene (TCE)	5	ug/L						
Xylenes (Total)	10,000	ug/L						

Bold values indicate concentrations above VCP RG.

Table 10
DPT Groundwater Results - Voss Road, Museum Drive and Swift Road - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-100-15	GW-100-30	GW-100-45	GW-101-30	GW-101-45	GW-109-30
Sample Date			6/29/2006	6/29/2006	6/29/2006	6/29/2006	6/29/2006	8/29/2006
Depth Interval			15 - 15	30 - 30	45 - 45	30 - 30	45 - 45	28 - 32
Chemical Name	VCP RG	Unit						
1,1,1-Trichloroethane	200	ug/L			1.1			
1,1-Dichloroethane	200	ug/L		1.2	5.7			
1,1-Dichloroethene	7	ug/L						
1,2,4-Trimethylbenzene (Pseudocumene)	3.1	ug/L						
1,3,5-Trimethylbenzene (Mesitylene)	3.1	ug/L						
cis-1,2-Dichloroethene	70	ug/L	50.2	21.4	93.9	5.2	11.8	
Ethylbenzene	700	ug/L						
Methyl(Tert)Butyl Ether	3.9	ug/L						1.4
N-BUTYLBENZENE	370	ug/L						
N-PROPYLBENZENE	370	ug/L						
Tetrachloroethene (PCE)	5	ug/L	3.2	11.6	9.6	1.3	1.5	
Toluene	1,000	ug/L						
trans-1,2-Dichloroethene	100	ug/L						
Trichloroethene (TCE)	5	ug/L						
Xylenes (Total)	10,000	ug/L						

Bold values indicate concentrations above VCP RG.

Table 10
DPT Groundwater Results - Voss Road, Museum Drive and Swift Road - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-110-30	GW-111-30	GW-112-10	GW-112-30	GW-112-50	GW-139-40
Sample Date			8/29/2006	8/29/2006	8/29/2006	8/29/2006	8/29/2006	11/15/2006
Depth Interval			28 - 32	28 - 32	8 - 12	28 - 32	48 - 52	38 - 42
Chemical Name	VCP RG	Unit						
1,1,1-Trichloroethane	200	ug/L						
1,1-Dichloroethane	200	ug/L	1.1	6.7	1.7	5.7		9.7
1,1-Dichloroethene	7	ug/L						
1,2,4-Trimethylbenzene (Pseudocumene)	3.1	ug/L						
1,3,5-Trimethylbenzene (Mesitylene)	3.1	ug/L						
cis-1,2-Dichloroethene	70	ug/L		18.8	15.2	47.2		103
Ethylbenzene	700	ug/L						
Methyl(Tert)Butyl Ether	3.9	ug/L						
N-BUTYLBENZENE	370	ug/L						
N-PROPYLBENZENE	370	ug/L						
Tetrachloroethene (PCE)	5	ug/L		1.6	1.1	2.7	1.2	12.1
Toluene	1,000	ug/L						
trans-1,2-Dichloroethene	100	ug/L						
Trichloroethene (TCE)	5	ug/L						
Xylenes (Total)	10,000	ug/L						

Bold values indicate concentrations above VCP RG.

Table 10
DPT Groundwater Results - Voss Road, Museum Drive and Swift Road - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-139-60	GW-139-80	GW-140-40	GW-140-60	GW-205-25	GW-205-65
Sample Date			11/15/2006	11/15/2006	11/15/2006	11/15/2006	6/21/2008	6/21/2008
Depth Interval			58 - 62	78 - 82	38 - 42	58 - 62	23 - 27	63 - 67
Chemical Name	VCP RG	Unit						
1,1,1-Trichloroethane	200	ug/L						
1,1-Dichloroethane	200	ug/L			4.4			
1,1-Dichloroethene	7	ug/L						
1,2,4-Trimethylbenzene (Pseudocumene)	3.1	ug/L						
1,3,5-Trimethylbenzene (Mesitylene)	3.1	ug/L						
cis-1,2-Dichloroethene	70	ug/L	5.7	2.1	50.5	5.7	1.6	
Ethylbenzene	700	ug/L						
Methyl(Tert)Butyl Ether	3.9	ug/L						
N-BUTYLBENZENE	370	ug/L						
N-PROPYLBENZENE	370	ug/L						
Tetrachloroethene (PCE)	5	ug/L	5.7		10.6	3.1		
Toluene	1,000	ug/L						0.53
trans-1,2-Dichloroethene	100	ug/L						
Trichloroethene (TCE)	5	ug/L						
Xylenes (Total)	10,000	ug/L						

Bold values indicate concentrations above VCP RG.

Table 10
DPT Groundwater Results - Voss Road, Museum Drive and Swift Road - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-206-20	GW-206-40	GW-206-60	GW-217-30	GW-217-50
Sample Date			6/21/2008	6/21/2008	6/21/2008	6/21/2008	6/21/2008
Depth Interval			18 - 22	38 - 42	58 - 62	28 - 32	48 - 52
Chemical Name	VCP RG	Unit					
1,1,1-Trichloroethane	200	ug/L					
1,1-Dichloroethane	200	ug/L					
1,1-Dichloroethene	7	ug/L					
1,2,4-Trimethylbenzene (Pseudocumene)	3.1	ug/L					
1,3,5-Trimethylbenzene (Mesitylene)	3.1	ug/L					
cis-1,2-Dichloroethene	70	ug/L	1.2	1.3	1.4	0.81	
Ethylbenzene	700	ug/L					
Methyl(Tert)Butyl Ether	3.9	ug/L					
N-BUTYLBENZENE	370	ug/L					
N-PROPYLBENZENE	370	ug/L					
Tetrachloroethene (PCE)	5	ug/L				1.1	1.1
Toluene	1,000	ug/L					
trans-1,2-Dichloroethene	100	ug/L					
Trichloroethene (TCE)	5	ug/L					
Xylenes (Total)	10,000	ug/L					

Bold values indicate concentrations above VCP RG.

Table 11
DPT Groundwater Results - Wainwright and Gregory Streets - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-113-10	GW-113-30	GW-113-50	GW-114-10	GW-114-30	GW-114-50	GW-115-10
Sample Date			8/29/2006	8/29/2006	8/29/2006	8/29/2006	8/29/2006	8/29/2006	8/29/2006
Depth Interval			8 - 12	28 - 32	48 - 52	8 - 12	28 - 32	48 - 52	8 - 12
Chemical Name	VCP RG	Unit							
1,1,1-Trichloroethane	200	ug/L		1.7	2.3		1.6	1.1	
1,1-Dichloroethane	200	ug/L		8.9	13.2		5.4	5.6	
1,1-Dichloroethene	7	ug/L							
Acetone	8,200	ug/L		13.3					
Chloromethane (Methyl chloride)	1.8	ug/L							
cis-1,2-Dichloroethene	70	ug/L	7.7	139	178	15.4	89.9	61.0	2.3
Tetrachloroethene (PCE)	5	ug/L		6.8	4.8	2.1	9.0	12.6	
trans-1,2-Dichloroethene	100	ug/L							
Trichloroethene (TCE)	5	ug/L							

Bold values indicate concentrations above VCP RG.

Table 11
DPT Groundwater Results - Wainwright and Gregory Streets - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-115-30	GW-115-50	GW-116-10	GW-116-30	GW-116-50	GW-117-30	GW-117-50
Sample Date			8/29/2006	8/29/2006	8/29/2006	8/29/2006	8/29/2006	8/29/2006	8/29/2006
Depth Interval			28 - 32	48 - 52	8 - 12	28 - 32	48 - 52	28 - 32	48 - 52
Chemical Name	VCP RG	Unit							
1,1,1-Trichloroethane	200	ug/L							
1,1-Dichloroethane	200	ug/L		1.5					
1,1-Dichloroethene	7	ug/L							
Acetone	8,200	ug/L							
Chloromethane (Methyl chloride)	1.8	ug/L		1.2					
cis-1,2-Dichloroethene	70	ug/L	34.9	41.0	1.1	3.8	6.6	5.2	6.3
Tetrachloroethene (PCE)	5	ug/L	3.9	7.5	2.0	2.2 J	2.5	1.1	1.0
trans-1,2-Dichloroethene	100	ug/L							
Trichloroethene (TCE)	5	ug/L							

Bold values indicate concentrations above VCP RG

Table 11
DPT Groundwater Results - Wainwright and Gregory Streets - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-141-40	GW-142-40	GW-142-60	GW-142-80	GW-143-40	GW-143-60	GW-146-40
Sample Date			11/15/2006	11/15/2006	11/15/2006	11/15/2006	11/15/2006	11/15/2006	11/17/2006
Depth Interval			38 - 42	38 - 42	58 - 62	78 - 82	38 - 42	58 - 62	38 - 42
Chemical Name	VCP RG	Unit							
1,1,1-Trichloroethane	200	ug/L							
1,1-Dichloroethane	200	ug/L	8.4	4.4	3.6				2.3
1,1-Dichloroethene	7	ug/L	2.1	1.6					1.1
Acetone	8,200	ug/L							
Chloromethane (Methyl chloride)	1.8	ug/L							
cis-1,2-Dichloroethene	70	ug/L	239	83.1	47.6	1.8	13.1	8.7	42.9
Tetrachloroethene (PCE)	5	ug/L	12.3	66.7	11.9		4.0	1.7	
trans-1,2-Dichloroethene	100	ug/L	3.3						
Trichloroethene (TCE)	5	ug/L	1.6	1.9					1.1

Bold values indicate concentrations above VCP RG

Table 11
DPT Groundwater Results - Wainwright and Gregory Streets - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-146-60	GW-208-20	GW-208-60	GW-213-55	GW-214-15	GW-214-35	GW-214-55
Sample Date			11/17/2006	6/21/2008	6/21/2008	6/23/2008	6/23/2008	6/23/2008	6/23/2008
Depth Interval			58 - 62	20	60	55	15	35	55
Chemical Name	VCP RG	Unit							
1,1,1-Trichloroethane	200	ug/L							
1,1-Dichloroethane	200	ug/L							
1,1-Dichloroethene	7	ug/L							
Acetone	8,200	ug/L							
Chloromethane (Methyl chloride)	1.8	ug/L							
cis-1,2-Dichloroethene	70	ug/L	7.2	3.7	1.2	0.72	4.3	2.2 / 2.0	1.8
Tetrachloroethene (PCE)	5	ug/L	2.0	1.0			0.72	0.70 / 0.77	0.65
trans-1,2-Dichloroethene	100	ug/L							
Trichloroethene (TCE)	5	ug/L							

Bold values indicate concentrations above VCP RG

Table 12
DPT Groundwater Results - Seedling Mile Road - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-119-10	GW-119-30	GW-119-50	GW-120-10	GW-120-30	GW-120-50
Sample Date			8/30/2006	8/30/2006	8/30/2006	8/30/2006	8/30/2006	8/30/2006
Depth Interval			8 - 12	28 - 32	48 - 52	8 - 12	28 - 32	48 - 52
Chemical Name	VCP RG	Unit						
1,1,1-Trichloroethane	200	ug/L		5.0	3.1			
1,1-Dichloroethane	200	ug/L	1.5	10.5	9.7		2.8	8.8
1,1-Dichloroethene	7	ug/L		1.9	1.5			
1,2,4-Trimethylbenzene (Pseudocumene)	3.1	ug/L						
Acetone	8,200	ug/L						
cis-1,2-Dichloroethene	70	ug/L	29.1	214	155	3.3	71.3	110
Tetrachloroethene (PCE)	5	ug/L	2.5	14.2	16.9		3.1	11.4
trans-1,2-Dichloroethene	100	ug/L		1.5	1.7			
Trichloroethene (TCE)	5	ug/L						1.2
Vinyl chloride	2	ug/L						

Bold values indicate concentrations above VCP RG.

Table 12
DPT Groundwater Results - Seedling Mile Road - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-121-10	GW-121-30	GW-121-50	GW-122-10	GW-122-30	GW-122-50
Sample Date			8/30/2006	8/30/2006	8/30/2006	8/30/2006	8/30/2006	8/30/2006
Depth Interval			8 - 12	28 - 32	48 - 52	8 - 12	28 - 32	48 - 52
Chemical Name	VCP RG	Unit						
1,1,1-Trichloroethane	200	ug/L		1.7	1.5			
1,1-Dichloroethane	200	ug/L		3.5	10.6		1.6	3.8
1,1-Dichloroethene	7	ug/L			1.3			
1,2,4-Trimethylbenzene (Pseudocumene)	3.1	ug/L						
Acetone	8,200	ug/L						
cis-1,2-Dichloroethene	70	ug/L	11	103	149	2.0	24.3	53.5
Tetrachloroethene (PCE)	5	ug/L	2.5	10.3	21.5	1.5	7.2	12.8
trans-1,2-Dichloroethene	100	ug/L			1.3			
Trichloroethene (TCE)	5	ug/L		1.1	1.2			
Vinyl chloride	2	ug/L						

Bold values indicate concentrations above VCP RG.

Table 12
DPT Groundwater Results - Seedling Mile Road - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-124-20	GW-124-40	GW-124-60	GW-129-20	GW-129-40	GW-129-60
Sample Date			8/31/2006	8/31/2006	8/31/2006	9/1/2006	9/1/2006	9/1/2006
Depth Interval			18 - 22	38 - 42	58 - 62	18 - 22	38 - 42	58 - 62
Chemical Name	VCP RG	Unit						
1,1,1-Trichloroethane	200	ug/L		2.6				
1,1-Dichloroethane	200	ug/L	8.3	13.9	1.5	1.7	6.5	3.1
1,1-Dichloroethene	7	ug/L						
1,2,4-Trimethylbenzene (Pseudocumene)	3.1	ug/L		4.3				
Acetone	8,200	ug/L						
cis-1,2-Dichloroethene	70	ug/L	78.4	187	8.1	24.0	91.6	52.1
Tetrachloroethene (PCE)	5	ug/L	4.9	11.3	3.4	5.6	10.8	13.1
trans-1,2-Dichloroethene	100	ug/L						
Trichloroethene (TCE)	5	ug/L						
Vinyl chloride	2	ug/L						

Bold values indicate concentrations above VCP RG.

Table 12
DPT Groundwater Results - Seedling Mile Road - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-129-80	GW-130-20	GW-130-40	GW-144-20	GW-144-40	GW-144-60
Sample Date			9/1/2006	8/31/2006	8/31/2006	11/16/2006	11/16/2006	11/16/2006
Depth Interval			78 - 82	18 - 22	38 - 42	18 - 22	38 - 42	58 - 62
Chemical Name	VCP RG	Unit						
1,1,1-Trichloroethane	200	ug/L						
1,1-Dichloroethane	200	ug/L	2.8			10.5	5.8	14.0
1,1-Dichloroethene	7	ug/L						1.2
1,2,4-Trimethylbenzene (Pseudocumene)	3.1	ug/L						
Acetone	8,200	ug/L						
cis-1,2-Dichloroethene	70	ug/L	38.3	2.0	5.0	75.5	59.3	115
Tetrachloroethene (PCE)	5	ug/L	3.8	1.0		6.6	7.1	10.5
trans-1,2-Dichloroethene	100	ug/L						1.3
Trichloroethene (TCE)	5	ug/L						1.2
Vinyl chloride	2	ug/L						1.5

Bold values indicate concentrations above VCP RG.

Table 12
DPT Groundwater Results - Seedling Mile Road - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-144-80	GW-145-20	GW-145-40	GW-145-60	GW-145-80
Sample Date			11/16/2006	11/16/2006	11/16/2006	11/16/2006	11/16/2006
Depth Interval			78 - 82	18 - 22	38 - 42	58 - 62	78 - 82
Chemical Name	VCP RG	Unit					
1,1,1-Trichloroethane	200	ug/L					
1,1-Dichloroethane	200	ug/L	3.8	3.8	5.6	6.0	5.2
1,1-Dichloroethene	7	ug/L					
1,2,4-Trimethylbenzene (Pseudocumene)	3.1	ug/L					
Acetone	8,200	ug/L		25.1			
cis-1,2-Dichloroethene	70	ug/L	23.3	70.4	57.9	58.7	51.3
Tetrachloroethene (PCE)	5	ug/L	5.4	3.7	3.8	5.7	3.9
trans-1,2-Dichloroethene	100	ug/L					
Trichloroethene (TCE)	5	ug/L					
Vinyl chloride	2	ug/L					

Bold values indicate concentrations above VCP RG.

Table 13
DPT Groundwater Results - Shady Bend Road - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-102-10	GW-102-30	GW-102-50	GW-103-10	GW-103-30	GW-103-50
Sample Date			8/28/2006	8/28/2006	8/28/2006	8/28/2006	8/28/2006	8/28/2006
Depth Interval			8 - 12	28 - 32	48 - 52	8 - 12	28 - 32	48 - 52
Chemical Name	VCP RG	Unit						
1,1,1-Trichloroethane	200	ug/L						
1,1-Dichloroethane	200	ug/L	6.2	3.4	4.5		2.4	5.8
1,2,4-Trimethylbenzene (Pseudocumene)	3.1	ug/L						
cis-1,2-Dichloroethene	70	ug/L	63.0	32.7	36.9	9.9	22.5	59.4
Tetrachloroethene (PCE)	5	ug/L	4.6	3.7	3.3	3.5	14.9	18.3
trans-1,2-Dichloroethene	100	ug/L	1.1					

Bold values indicate concentrations above VCP RG.

Table 13
DPT Groundwater Results - Shady Bend Road - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-104-10	GW-104-30	GW-104-50	GW-105-30	GW-105-50	GW-106-10
Sample Date			8/28/2006	8/28/2006	8/28/2006	8/28/2006	8/28/2006	8/28/2006
Depth Interval			8 - 12	28 - 32	48 - 52	28 - 32	48 - 52	8 - 12
Chemical Name	VCP RG	Unit						
1,1,1-Trichloroethane	200	ug/L						
1,1-Dichloroethane	200	ug/L		1.7	1.9			
1,2,4-Trimethylbenzene (Pseudocumene)	3.1	ug/L						1.8
cis-1,2-Dichloroethene	70	ug/L	1.4	24.6	26.5	5.5	6.9	
Tetrachloroethene (PCE)	5	ug/L	1.4	6.0	6.5	2.1	1.4	
trans-1,2-Dichloroethene	100	ug/L						

Bold values indicate concentrations above VCP RG.

Table 13
DPT Groundwater Results - Shady Bend Road - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-106-30	GW-106-50	GW-107-50	GW-125-20	GW-125-40	GW-125-60
Sample Date			8/28/2006	8/28/2006	8/28/2006	8/31/2006	8/31/2006	8/31/2006
Depth Interval			28 - 32	48 - 52	48 - 52	18 - 22	38 - 42	58 - 62
Chemical Name	VCP RG	Unit						
1,1,1-Trichloroethane	200	ug/L				1.5		
1,1-Dichloroethane	200	ug/L				7.5	2.6	2.1
1,2,4-Trimethylbenzene (Pseudocumene)	3.1	ug/L			1.1			
cis-1,2-Dichloroethene	70	ug/L	7.3	2.8	2.4	134	25.7	20.4
Tetrachloroethene (PCE)	5	ug/L	1.4			10.4	5.2	4.4
trans-1,2-Dichloroethene	100	ug/L						

Bold values indicate concentrations above VCP RG.

Table 13
DPT Groundwater Results - Shady Bend Road - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-125-80	GW-126-20	GW-126-40	GW-128-20	GW-128-40	GW-128-60
Sample Date			8/31/2006	8/31/2006	8/31/2006	8/31/2006	8/31/2006	8/31/2006
Depth Interval			78 - 82	18 - 22	38 - 42	18 - 22	38 - 42	58 - 62
Chemical Name	VCP RG	Unit						
1,1,1-Trichloroethane	200	ug/L						
1,1-Dichloroethane	200	ug/L	1.3	1.7			1.9	5.5
1,2,4-Trimethylbenzene (Pseudocumene)	3.1	ug/L						
cis-1,2-Dichloroethene	70	ug/L	8.8	5.8		11.3	16.4	68.1
Tetrachloroethene (PCE)	5	ug/L	5.0	1.4	1.7	4.1	19.8	13.6
trans-1,2-Dichloroethene	100	ug/L						

Bold values indicate concentrations above VCP RG.

Table 13
DPT Groundwater Results - Shady Bend Road - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-128-80
Sample Date			8/31/2006
Depth Interval			78 - 82
Chemical Name	VCP RG	Unit	
1,1,1-Trichloroethane	200	ug/L	
1,1-Dichloroethane	200	ug/L	2.0
1,2,4-Trimethylbenzene (Pseudocumene)	3.1	ug/L	
cis-1,2-Dichloroethene	70	ug/L	23.4
Tetrachloroethene (PCE)	5	ug/L	2.4
trans-1,2-Dichloroethene	100	ug/L	

Bold values indicate concentrations above VCP RG.

Table 14
DPT Groundwater Results - Central Farm Fields - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-132-40	GW-133-20	GW-133-40	GW-133-60	GW-133-80	GW-134-20	GW-134-40
Sample Date			11/14/2006	11/14/2006	11/14/2006	11/14/2006	11/14/2006	11/14/2006	11/14/2006
Depth Interval			38 - 42	18 - 22	38 - 42	58 - 62	78 - 82	18 - 22	38 - 42
Chemical Name	VCP RG	Unit							
1,1-Dichloroethane	200	ug/L		2.2	2.3	2.4	1.2	1.9	
cis-1,2-Dichloroethene	70	ug/L		14.0	15.8	24.2	11.7	19.0	2.5
Tetrachloroethene (PCE)	5	ug/L	5.4	3.5	5.0	19.3	8.2	7.4	6.8

Bold values indicate concentrations above VCP RG.

Table 14
DPT Groundwater Results - Central Farm Fields - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-134-60	GW-134-80	GW-135-20	GW-135-40	GW-135-60	GW-135-80	GW-136-20
Sample Date			11/14/2006	11/14/2006	11/14/2006	11/14/2006	11/14/2006	11/14/2006	11/14/2006
Depth Interval			58 - 62	78 - 82	18 - 22	38 - 42	58 - 62	78 - 82	18 - 22
Chemical Name	VCP RG	Unit							
1,1-Dichloroethane	200	ug/L	3.0	2.6	1.2		1.0		
cis-1,2-Dichloroethene	70	ug/L	34.1	28.5	12.3	2.9	13.9	6.0	1.5
Tetrachloroethene (PCE)	5	ug/L	14.6	12.1	2.3	9.7	6.9	2.9	

Bold values indicate concentrations above VCP

Table 14
DPT Groundwater Results - Central Farm Fields - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-136-40	GW-164-60	GW-165-40	GW-165-60	GW-165-80
Sample Date			11/14/2006	3/27/2008	3/27/2008	3/27/2008	3/27/2008
Depth Interval			38 - 42	58 - 62	38 - 42	58 - 62	78 - 82
Chemical Name	VCP RG	Unit					
1,1-Dichloroethane	200	ug/L					
cis-1,2-Dichloroethene	70	ug/L	1.2				
Tetrachloroethene (PCE)	5	ug/L		5.4	13.2	5.6	5.1

Bold values indicate concentrations above VCP

Table 15
DPT Groundwater Results - Gunbarrel Road - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-150-40	GW-150-60	GW-153-40	GW-153-60	GW-154-60	GW-154-80
Sample Date			3/25/2008	3/25/2008	3/26/2008	3/26/2008	3/26/2008	3/26/2008
Depth Interval			38 - 42	58 - 62	38 - 42	58 - 62	58 - 62	78 - 82
Chemical Name	VCP RG	Unit						
Tetrachloroethene (PCE)	5	ug/L	12.7	10.0	7.1	8.3	9.4 / 7.7	12.1

Bold values indicate concentrations above VCP RG.
Cells with multiple values contain duplicate samples.

Table 16
DPT Groundwater Results - Capital Avenue - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-155-40	GW-155-60	GW-155-80	GW-156-60	GW-169-60	GW-172-40	GW-172-60
Sample Date			3/26/2008	3/26/2008	3/26/2008	3/26/2008	3/28/2008	3/28/2008	3/28/2008
Depth Interval			38 - 42	58 - 62	78 - 82	58 - 62	58 - 62	38 - 42	58 - 62
Chemical Name	VCP RG	Unit							
Tetrachloroethene (PCE)	5	ug/L	14.9	11.3	8.4	6.5	2.1 J	3.5 J	2.3 J

Bold values indicate concentrations above VCP RG.

Table 16
DPT Groundwater Results - Capital Avenue - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

GW-172-80
3/28/2008
78 - 82
1.9 J

Table 17
DPT Groundwater Results - Evergreen Lane, Lynn Lane and Fort Kearney Road - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-167-60	GW-167-80
Sample Date			3/28/2008	3/28/2008
Depth Interval			58 - 62	78 - 82
Chemical Name	VCP RG	Unit		
Tetrachloroethene (PCE)	5	ug/L	10.8	4.0

Bold values indicate concentrations above VCP RG.

Table 18
DPT Groundwater Results - Beck Road and Adjacent Field - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-183-30	GW-183-50	GW-183-70	GW-183-85	GW-184-60	GW-184-80	GW-185-45
Sample Date			6/17/2008	6/17/2008	6/17/2008	6/17/2008	6/18/2008	6/18/2008	6/18/2008
Depth Interval			28 - 32	48 - 52	68 - 72	83 - 87	58 - 62	78 - 82	43 - 47
Chemical Name	VCP RG	Unit							
1,2-Dichloroethane	5	ug/L						0.57	
cis-1,2-Dichloroethene	70	ug/L			0.83				
Tetrachloroethene (PCE)	5	ug/L	1.3	5.0	7.1	3.0	2.4	4.0	1.7
Trichloroethene	5	ug/L		0.5					

Bold values indicate concentrations above VCP RG.

Table 18
DPT Groundwater Results - Beck Road and Adjacent Field - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-185-65	GW-186-65	GW-187-60	GW-187-80	GW-191-80	GW-192-60	GW-193-60
Sample Date			6/18/2008	6/18/2008	6/18/2008	6/18/2008	6/19/2008	6/19/2008	6/19/2008
Depth Interval			63 - 67	63 - 67	58 - 62	78 - 82	78 - 82	58 - 62	58 - 62
Chemical Name	VCP RG	Unit							
1,2-Dichloroethane	5	ug/L			0.53	1.1	0.54		
cis-1,2-Dichloroethene	70	ug/L							
Tetrachloroethene (PCE)	5	ug/L	3.0	1.8	0.54			1.9	1.1
Trichloroethene	5	ug/L							

Bold values indicate concentrations above VCP

Table 18
DPT Groundwater Results - Beck Road and Adjacent Field - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Sample ID			GW-193-80	GW-194-65	GW-210-60
Sample Date			6/19/2008	6/19/2008	6/23/2008
Depth Interval			78 - 82	63 - 67	58 - 62
Chemical Name	VCP RG	Unit			
1,2-Dichloroethane	5	ug/L			
cis-1,2-Dichloroethene	70	ug/L			
Tetrachloroethene (PCE)	5	ug/L	1.4	0.75	1.4 / 1.6
Trichloroethene	5	ug/L			

Bold values indicate concentrations above VCP

Table 19
Groundwater Elevations from Quarterly Monitoring
NSC 1200 Highway 30 East
Grand Island, Nebraska

Groundwater Elevation (ft amsl)								
Well ID	1/20/2007	3/8/2007	6/19/2007	9/17/2007	12/5/2007	3/6/2008	4/24/2008	6/23/2008
MW-NSC-01A	1833.03	1833.35	1835.24	1834.73	1834.58	1834.47	-	1836.83
MW-NSC-01B	1832.96	1833.26	1835.24	1834.65	1834.51	1834.38	-	1836.74
MW-NSC-02A	1832.81	1833.10	1835.00	1834.48	1834.34	1834.24	-	1836.49
MW-NSC-02B	1832.81	1833.11	1835.01	1834.49	1834.37	1834.23	-	1836.50
MW-NSC-02C	1832.81	1833.09	1834.99	1834.46	1834.34	1834.23	-	1836.48
MW-NSC-03A	1832.54	1832.87	1834.77	1834.28	1834.16	1833.99	-	1836.31
MW-NSC-04A	1832.45	1832.70	1834.65	1834.08	1833.98	1833.75	-	1836.03
MW-NSC-04B	1832.42	1833.12	1835.01	1834.46	1834.34	1834.17	-	1836.43
MW-NSC-05A	1832.40	1832.71	1834.56	1833.95	1833.83	1833.77	-	1835.92
MW-NSC-06A	1830.54	1830.86	1832.64	1831.92	1832.99	1832.00	-	1833.70
MW-NSC-07A	1830.73	1831.03	1832.80	1832.05	1832.11	1832.14	-	1833.87
MW-NSC-07B	1830.72	1831.19	1832.96	1832.34	1832.30	1832.29	-	1834.04
MW-NSC-07C	1830.68	1830.24	1832.02	1831.28	1831.37	1831.36	-	1833.08
MW-NSC-08A	1830.73	1830.97	1832.75	1831.99	1832.06	1832.04	-	1833.76
MW-NSC-08B	1830.70	1830.97	1832.74	1831.99	1832.08	1832.06	-	1833.79
MW-NSC-08C	-	-	-	-	-	-	-	1834.29
MW-NSC-09B	-	-	-	-	-	-	1830.87	1831.41
MW-NSC-10B	-	-	-	-	-	-	1830.86	1831.41
MW-NSC-10C	-	-	-	-	-	-	1830.93	1831.42
MW-NSC-11B	-	-	-	-	-	-	1830.09	1830.42
MW-NSC-12B	-	-	-	-	-	-	1829.11	1829.50
MW-NSC-13C	-	-	-	-	-	-	1829.07	1829.39
MW-NSC-14B	-	-	-	-	-	-	1828.98	1829.47
MW-NSC-14D	-	-	-	-	-	-	1829.07	1829.47
MW-NSC-15B	-	-	-	-	-	-	1828.84	1829.23
MW-NSC-15D	-	-	-	-	-	-	1828.95	1829.35
MW-NSC-16C	-	-	-	-	-	-	1827.81	1828.02
MW-NSC-17A	-	-	-	-	-	-	1827.84	1828.03
MW-NSC-17C	-	-	-	-	-	-	1827.70	1827.94
MW-NSC-17D	-	-	-	-	-	-	1827.82	1828.02
MW-NSC-18C	-	-	-	-	-	-	1827.96	1828.17
MW-NSC-19B	-	-	-	-	-	-	1828.07	1827.99
MW-NSC-20B	-	-	-	-	-	-	1825.24	1826.49
MW-NSC-20D	-	-	-	-	-	-	1826.45	1826.56
MW-NSC-21A	-	-	-	-	-	-	1827.62	1825.59
MW-NSC-21C	-	-	-	-	-	-	1826.51	1826.70
MW-NSC-21E	-	-	-	-	-	-	1826.54	1826.66
MW-NSC-22B	-	-	-	-	-	-	1826.82	1826.94
MW-NSC-23C	-	-	-	-	-	-	-	-
MW-NSC-24C	-	-	-	-	-	-	-	-
MW-NSC-25C	-	-	-	-	-	-	-	1819.54
MW-NSC-26A	-	-	-	-	-	-	-	1818.76
MW-NSC-26C	-	-	-	-	-	-	-	1818.78
MW-NSC-26D	-	-	-	-	-	-	-	1818.77
MW-NSC-27A	-	-	-	-	-	-	-	1818.79
MW-NSC-27C	-	-	-	-	-	-	-	1818.86
MW-NSC-27D	-	-	-	-	-	-	-	1818.96
MW-NSC-28B	-	-	-	-	-	-	-	1819.84
MW-NSC-28D	-	-	-	-	-	-	-	1819.79
MW-NSC-29D	-	-	-	-	-	-	-	1819.19
MW-NSC-30C	-	-	-	-	-	-	-	1815.88
MW-NSC-31C	-	-	-	-	-	-	-	1815.60
MW-NSC-31D	-	-	-	-	-	-	-	1815.55
MW-NSC-32A	-	-	-	-	-	-	-	1815.08
MW-NSC-32C	-	-	-	-	-	-	-	1815.11
MW-NSC-32E	-	-	-	-	-	-	-	1815.64
MW-NSC-33A	-	-	-	-	-	-	-	1815.59
MW-NSC-34C	-	-	-	-	-	-	-	1815.94
MW-NSC-35C	-	-	-	-	-	-	-	1814.02
MW-NSC-36B	-	-	-	-	-	-	-	1834.26
MW-NSC-37C	-	-	-	-	-	-	-	-
MW-NSC-38C	-	-	-	-	-	-	-	-

Table 20
Monitoring Well Groundwater Results - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Location ID			MW-NSC-01A	MW-NSC-01A	MW-NSC-01A	MW-NSC-01B	MW-NSC-01B	MW-NSC-01B	MW-NSC-01B	MW-NSC-02A	MW-NSC-02A	MW-NSC-02A	MW-NSC-02A
Sample Date			6/19/2007	12/05/2007	03/06/2008	3/8/2007	6/19/2007	12/05/2007	03/06/2008	3/8/2007	6/19/2007	9/17/2007	12/05/2007
Depth Interval			20-25	20-25	20-25	35-40	35-40	35-40	35-40	10-15	10-15	10-15	10-15
Chemical Name	VCP RG	Unit											
1,1,1,2-Tetrachloroethane	0.52	ug/L											
1,1,1-Trichloroethane	200	ug/L											
1,1,2-Trichloroethane	5	ug/L											
1,1-Dichloroethane	200	ug/L								1.80			
1,1-Dichloroethene	7	ug/L											
1,1-Dichloropropene		ug/L											
1,2,4-Trichlorobenzene	70	ug/L											
1,2,4-Trimethylbenzene (Pseudocumene)	3.1	ug/L								16.6	25.5 J		19.2 J
1,2-Dichlorobenzene	600	ug/L											
1,2-Dichloroethane	5	ug/L											
1,3,5-Trimethylbenzene (Mesitylene)	3.1	ug/L								7.60	9.00 J		37.2
1,4-Dichlorobenzene	75	ug/L											
2-Butanone (MEK)	1800	ug/L			1.47 J								
4-Chlorotoluene		ug/L											
4-Methyl-2-pentanone (MIBK)	500	ug/L								7.80			
Acetone	8200	ug/L			12.3				15.2	96.0			
Benzene	5	ug/L								317	228		183
Bromodichloromethane		ug/L											
Bromoform	2.9	ug/L											
Bromomethane (Methyl bromide)	2.2	ug/L											
Carbon disulfide	0.0051	ug/L											
Chlorobenzene	100	ug/L											
Chloroethane	23	ug/L											
Chloroform	0.21	ug/L									10.5 J		
Chloromethane (Methyl chloride)	1.8	ug/L		0.200 J									
cis-1,2-Dichloroethene	70	ug/L								1680	1980	360 J	1460
Dibromochloromethane	0.8	ug/L											
Ethylbenzene	700	ug/L								17300	17000	10100	8590
Isopropylbenzene (Cumene)	170	ug/L								64.0	70.5		64.4
m,p-Xylene		ug/L								61300	58300	39000	20900
Methyl(Tert)Butyl Ether	3.9	ug/L											
Methylene Chloride (Dichloromethane)	5	ug/L			0.700 J				0.800 J	90.4	42.5 J		12.8 J
Naphthalene	0.00028	ug/L								23.0	27.5 J		27.2 J
n-Butylbenzene	370	ug/L									7.00 J		
n-Propylbenzene	370	ug/L								4.60	13.0 J		14.0 J
o-Xylene		ug/L								22000	20000	11600	6830
p-Isopropyltoluene		ug/L											
t-Butylbenzene	370	ug/L											4.60 J
Tetrachloroethene (PCE)	5	ug/L				0.770	0.770 J	0.740 J	0.460 J	38.2	126		16.4 J
Toluene	1000	ug/L	0.250 J				0.250 J			84400	79300	47000 J	28000
trans-1,2-Dichloroethene	100	ug/L								11.2			
trans-1,3-Dichloropropene		ug/L										920 J	
Trichloroethene (TCE)	5	ug/L								28.8	49.5 J		
Vinyl chloride	2	ug/L								21.0			
Xylenes (Total)	10000	ug/L								83300	78300	50600	27700

Bold value indicates concentration above VCP RG.

Table 20
Monitoring Well Groundwater Results - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Location ID	MW-NSC-02A	MW-NSC-02A	MW-NSC-02B	MW-NSC-02B	MW-NSC-02C	MW-NSC-02C	MW-NSC-02C	MW-NSC-02C	MW-NSC-03A	MW-NSC-03A	MW-NSC-04A	MW-NSC-04A
Sample Date	03/06/2008	6/23/2008	6/19/2007	03/06/2008	6/19/2007	12/05/2007	03/06/2008	6/19/2007	03/06/2008	3/8/2007	6/19/2007	
Depth Interval	10-15	10-15	25-30	25-30	45-50	45-50	10-15	10-15	10-15	10-15	10-15	
Chemical Name	VCP RG	Unit										
1,1,1,2-Tetrachloroethane	0.52	ug/L										
1,1,1-Trichloroethane	200	ug/L								504	1890	
1,1,2-Trichloroethane	5	ug/L										
1,1-Dichloroethane	200	ug/L								1150	1420	
1,1-Dichloroethene	7	ug/L		2.79						133	272	
1,1-Dichloropropene		ug/L										
1,2,4-Trichlorobenzene	70	ug/L										
1,2,4-Trimethylbenzene (Pseudocumene)	3.1	ug/L	14.6 J	23.2						126	164	
1,2-Dichlorobenzene	600	ug/L										
1,2-Dichloroethane	5	ug/L								7.00	12.5 J	
1,3,5-Trimethylbenzene (Mesitylene)	3.1	ug/L		7.95						232	122	
1,4-Dichlorobenzene	75	ug/L										
2-Butanone (MEK)	1800	ug/L		32.5				1.57 J		2.13 J		
4-Chlorotoluene		ug/L										
4-Methyl-2-pentanone (MIBK)	500	ug/L										
Acetone	8200	ug/L			10.3		12.1			10.5		
Benzene	5	ug/L	239	230						125	143	
Bromodichloromethane		ug/L				0.140 J						
Bromoform	2.9	ug/L										
Bromomethane (Methyl bromide)	2.2	ug/L										
Carbon disulfide	0.0051	ug/L										
Chlorobenzene	100	ug/L										
Chloroethane	23	ug/L								29.8		
Chloroform	0.21	ug/L	4.80 J								14.5 J	
Chloromethane (Methyl chloride)	1.8	ug/L					0.230 J			10.4	18.5 J	
cis-1,2-Dichloroethene	70	ug/L	1990	1500						2890	5120	
Dibromochloromethane	0.8	ug/L										
Ethylbenzene	700	ug/L	12800	18400						9420	8790	
Isopropylbenzene (Cumene)	170	ug/L		91.6						45.0	40.5 J	
m,p-Xylene		ug/L	45200	63400						39200	31100	
Methyl(Tert)Butyl Ether	3.9	ug/L										
Methylene Chloride (Dichloromethane)	5	ug/L			0.900 J		0.660 J		0.880 J	114	214 J	
Naphthalene	0.00028	ug/L	16.8 J	26.2						13.4	17.5 J	
n-Butylbenzene	370	ug/L		2.48								
n-Propylbenzene	370	ug/L	7.60 J	11.5						28.4	40.0 J	
o-Xylene		ug/L	15700	21300						12800	11100	
p-Isopropyltoluene		ug/L		1.28								
t-Butylbenzene	370	ug/L										
Tetrachloroethene (PCE)	5	ug/L	23.2	69.0	0.280 J	0.380 J	0.250 J			76.8	32.0 J	
Toluene	1000	ug/L	71200	81100			0.240 J		0.160 J	48200	37200 J	
trans-1,2-Dichloroethene	100	ug/L	11.0 J	6.30						11.2	16.5 J	
trans-1,3-Dichloropropene		ug/L									972	
Trichloroethene (TCE)	5	ug/L	23.2	33.6						59.2	15.0 J	
Vinyl chloride	2	ug/L		8.34						791	840	
Xylenes (Total)	10000	ug/L	60900	84700						52000	42200	

Bold value indicates concentration above VCP RG.

Table 20
Monitoring Well Groundwater Results - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Location ID	MW-NSC-04A	MW-NSC-04A	MW-NSC-04A	MW-NSC-04A	MW-NSC-04A	MW-NSC-04A	MW-NSC-04B	MW-NSC-04B	MW-NSC-04B	MW-NSC-05A	MW-NSC-05A
Sample Date	9/17/2007	12/05/2007	12/05/2007	03/06/2008	03/06/2008	6/23/2008	3/8/2007	6/19/2007	03/06/2008	3/8/2007	6/19/2007
Depth Interval	10-15	10-15	10-15	10-15	10-15	10-15	25-30	25-30	25-30	10-15	10-15
Chemical Name	VCP RG	Unit									
1,1,1,2-Tetrachloroethane	0.52	ug/L									
1,1,1-Trichloroethane	200	ug/L	148	698	714						
1,1,2-Trichloroethane	5	ug/L					2.09				
1,1-Dichloroethane	200	ug/L	129	898	934	1480	1410	832		0.090	
1,1-Dichloroethene	7	ug/L	33.0 J	140	147	138 J	130 J	78.5			
1,1-Dichloropropene		ug/L						6.42			
1,2,4-Trichlorobenzene	70	ug/L									
1,2,4-Trimethylbenzene (Pseudocumene)	3.1	ug/L	116	123	133	181	176	242			
1,2-Dichlorobenzene	600	ug/L									
1,2-Dichloroethane	5	ug/L			5.80 J						
1,3,5-Trimethylbenzene (Mesitylene)	3.1	ug/L	52.0	239	265			123			
1,4-Dichlorobenzene	75	ug/L								2.13	0.960 J
2-Butanone (MEK)	1800	ug/L									
4-Chlorotoluene		ug/L					13.2				
4-Methyl-2-pentanone (MIBK)	500	ug/L									
Acetone	8200	ug/L							10.9		
Benzene	5	ug/L	26.0	182	187	230	222	130			
Bromodichloromethane		ug/L									
Bromoform	2.9	ug/L									
Bromomethane (Methyl bromide)	2.2	ug/L									
Carbon disulfide	0.0051	ug/L									
Chlorobenzene	100	ug/L									
Chloroethane	23	ug/L	26.4 J		22.2 J			29.1			
Chloroform	0.21	ug/L				66.0 J	64.0 J				
Chloromethane (Methyl chloride)	1.8	ug/L	4.80 J		6.40 J						
cis-1,2-Dichloroethene	70	ug/L	442	1800	1860	1390	1350	1050		63.1	
Dibromochloromethane	0.8	ug/L									
Ethylbenzene	700	ug/L	9910	9200	9470	9900	10000	12200			
Isopropylbenzene (Cumene)	170	ug/L	55.0	61.2	72.4			61.1			
m,p-Xylene		ug/L	39800	25700	23900	38400	39300	46300			
Methyl(Tert)Butyl Ether	3.9	ug/L									
Methylene Chloride (Dichloromethane)	5	ug/L	35.0 J	23.2 J	24.0 J			15.3		0.710 J	
Naphthalene	0.00028	ug/L		145	38.2 J			15.6			
n-Butylbenzene	370	ug/L						3.85			
n-Propylbenzene	370	ug/L	29.0 J	26.4	31	43.0 J	41.0 J	51.6			
o-Xylene		ug/L	10700	8100	7400	13200	13400	14000			
p-Isopropyltoluene		ug/L						1.17			
t-Butylbenzene	370	ug/L									
Tetrachloroethene (PCE)	5	ug/L	30.0 J					18.8	0.330	0.360 J	1.34
Toluene	1000	ug/L	15000 J	25800	24000	64700	67600	44500		0.140 J	
trans-1,2-Dichloroethene	100	ug/L		10.2 J	10.8 J			5.49			0.610
trans-1,3-Dichloropropene		ug/L									
Trichloroethene (TCE)	5	ug/L	18.0 J					15.3		8.89	0.200 J
Vinyl chloride	2	ug/L	49.5 J	371	381	701	642	329			
Xylenes (Total)	10000	ug/L	50500	33800	31300	51600	52700	60200			

Bold value indicates concentration above VCP RG.

Table 20
Monitoring Well Groundwater Results - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Location ID	MW-NSC-05A	MW-NSC-05A	MW-NSC-06A	MW-NSC-06A	MW-NSC-06A	MW-NSC-06A	MW-NSC-07A	MW-NSC-07A	MW-NSC-07A	MW-NSC-07A	MW-NSC-07A
Sample Date	12/05/2007	03/06/2008	3/8/2007	6/19/2007	9/17/2007	03/06/2008	3/8/2007	6/19/2007	9/17/2007	12/05/2007	12/05/2007
Depth Interval	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15
Chemical Name	VCP RG	Unit									
1,1,1,2-Tetrachloroethane	0.52	ug/L									
1,1,1-Trichloroethane	200	ug/L									
1,1,2-Trichloroethane	5	ug/L									
1,1-Dichloroethane	200	ug/L		0.390			11.2	4.14	15.6	5.98	6.59
1,1-Dichloroethene	7	ug/L									
1,1-Dichloropropene		ug/L									
1,2,4-Trichlorobenzene	70	ug/L									
1,2,4-Trimethylbenzene (Pseudocumene)	3.1	ug/L									
1,2-Dichlorobenzene	600	ug/L		0.310	0.200 J	0.170 J					
1,2-Dichloroethane	5	ug/L									
1,3,5-Trimethylbenzene (Mesitylene)	3.1	ug/L									
1,4-Dichlorobenzene	75	ug/L		0.270 J	0.330						
2-Butanone (MEK)	1800	ug/L		2.01 J			1.89 J				
4-Chlorotoluene		ug/L									
4-Methyl-2-pentanone (MIBK)	500	ug/L									
Acetone	8200	ug/L		18.3			17.0				
Benzene	5	ug/L					0.93	1.08	0.94	0.480 J	0.420 J
Bromodichloromethane		ug/L									
Bromoform	2.9	ug/L									
Bromomethane (Methyl bromide)	2.2	ug/L									
Carbon disulfide	0.0051	ug/L									
Chlorobenzene	100	ug/L		0.520	0.190 J						
Chloroethane	23	ug/L								1.18 J	0.770 J
Chloroform	0.21	ug/L									
Chloromethane (Methyl chloride)	1.8	ug/L	0.270 J							0.830 J	0.490 J
cis-1,2-Dichloroethene	70	ug/L	0.990 J	17.4			58.1	52.4	43.3	5.58	6.29
Dibromochloromethane	0.8	ug/L									
Ethylbenzene	700	ug/L									
Isopropylbenzene (Cumene)	170	ug/L									
m,p-Xylene		ug/L									
Methyl(Tert)Butyl Ether	3.9	ug/L									
Methylene Chloride (Dichloromethane)	5	ug/L		0.920 J			0.860 J				
Naphthalene	0.00028	ug/L									
n-Butylbenzene	370	ug/L									
n-Propylbenzene	370	ug/L									
o-Xylene		ug/L									
p-Isopropyltoluene		ug/L									
t-Butylbenzene	370	ug/L	0.290 J								
Tetrachloroethene (PCE)	5	ug/L					2.13	1.60	1.60	0.860 J	0.950 J
Toluene	1000	ug/L									
trans-1,2-Dichloroethene	100	ug/L					0.380	0.660 J	0.450 J		
trans-1,3-Dichloropropene		ug/L									
Trichloroethene (TCE)	5	ug/L		1.20			2.08	2.13	2.42	1.02	0.960 J
Vinyl chloride	2	ug/L		0.700 J	0.200		113	92.4	101	38.0	37.9
Xylenes (Total)	10000	ug/L									

Bold value indicates concentration above VCP RG.

Table 20
Monitoring Well Groundwater Results - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Location ID			MW-NSC-07A	MW-NSC-07A	MW-NSC-07A	MW-NSC-07A	MW-NSC-07B	MW-NSC-07B	MW-NSC-07B	MW-NSC-07B	MW-NSC-07C	MW-NSC-07C	MW-NSC-08A
Sample Date			03/06/2008	03/06/2008	6/23/2008	6/23/2008	3/8/2007	6/19/2007	12/05/2007	03/06/2008	6/19/2007	03/06/2008	3/8/2007
Depth Interval			10-15	10-15	10-15	10-15	30-35	30-35	30-35	30-35	45-50	45-50	10-15
Chemical Name	VCP RG	Unit											
1,1,1,2-Tetrachloroethane	0.52	ug/L											
1,1,1-Trichloroethane	200	ug/L											
1,1,2-Trichloroethane	5	ug/L											
1,1-Dichloroethane	200	ug/L	7.67	8.89	11.3	12.6			0.240 J				
1,1-Dichloroethene	7	ug/L		0.420 J									
1,1-Dichloropropene		ug/L											
1,2,4-Trichlorobenzene	70	ug/L											
1,2,4-Trimethylbenzene (Pseudocumene)	3.1	ug/L											
1,2-Dichlorobenzene	600	ug/L											
1,2-Dichloroethane	5	ug/L											
1,3,5-Trimethylbenzene (Mesitylene)	3.1	ug/L											
1,4-Dichlorobenzene	75	ug/L											
2-Butanone (MEK)	1800	ug/L	1.89 J	2.06 J						4.79 J		1.96 J	
4-Chlorotoluene		ug/L											
4-Methyl-2-pentanone (MIBK)	500	ug/L											
Acetone	8200	ug/L	10.0	13.8						7.65 J		12.0	
Benzene	5	ug/L	0.750	0.740	0.640	0.640							
Bromodichloromethane		ug/L									0.140 J		
Bromoform	2.9	ug/L											
Bromomethane (Methyl bromide)	2.2	ug/L											
Carbon disulfide	0.0051	ug/L											
Chlorobenzene	100	ug/L											
Chloroethane	23	ug/L											
Chloroform	0.21	ug/L									0.190 J	0.200 J	
Chloromethane (Methyl chloride)	1.8	ug/L	0.510 J										
cis-1,2-Dichloroethene	70	ug/L	8.18	8.6	11.3	12.8	0.76	0.330 J					1.48
Dibromochloromethane	0.8	ug/L											
Ethylbenzene	700	ug/L											
Isopropylbenzene (Cumene)	170	ug/L											
m,p-Xylene		ug/L											
Methyl(Tert)Butyl Ether	3.9	ug/L											
Methylene Chloride (Dichloromethane)	5	ug/L	0.690 J	0.810 J						0.910 J		0.790 J	
Naphthalene	0.00028	ug/L											
n-Butylbenzene	370	ug/L											
n-Propylbenzene	370	ug/L											
o-Xylene		ug/L											
p-Isopropyltoluene		ug/L											
t-Butylbenzene	370	ug/L											
Tetrachloroethene (PCE)	5	ug/L	0.640 J	0.600 J			0.49	0.310 J					0.5
Toluene	1000	ug/L											
trans-1,2-Dichloroethene	100	ug/L	0.390 J	0.370 J									
trans-1,3-Dichloropropene		ug/L											
Trichloroethene (TCE)	5	ug/L	0.700 J	0.680 J									0.22
Vinyl chloride	2	ug/L	49.9	56.8	39.4	44.7							
Xylenes (Total)	10000	ug/L											

Bold value indicates concentration above VCP RG.

Table 20
Monitoring Well Groundwater Results - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Location ID			MW-NSC-08A	MW-NSC-08A	MW-NSC-08A	MW-NSC-08A	MW-NSC-08A	MW-NSC-08B	MW-NSC-08B	MW-NSC-08B	MW-NSC-08B	MW-NSC-08B	MW-NSC-08B
Sample Date			6/19/2007	9/17/2007	12/05/2007	03/06/2008	6/23/2008	3/8/2007	6/19/2007	9/17/2007	12/05/2007	03/06/2008	6/23/2008
Depth Interval			10-15	10-15	10-15	10-15	10-15	30-35	30-35	30-35	30-35	30-35	30-35
Chemical Name	VCP RG	Unit											
1,1,1,2-Tetrachloroethane	0.52	ug/L									0.350 J		
1,1,1-Trichloroethane	200	ug/L				0.390 J					5.64	7.26	
1,1,2-Trichloroethane	5	ug/L											
1,1-Dichloroethane	200	ug/L				1.58	1.61			0.540 J	4.65	6.72	1.86
1,1-Dichloroethene	7	ug/L									1.66 J	1.68 J	
1,1-Dichloropropene		ug/L											
1,2,4-Trichlorobenzene	70	ug/L				0.550 J							
1,2,4-Trimethylbenzene (Pseudocumene)	3.1	ug/L											
1,2-Dichlorobenzene	600	ug/L											
1,2-Dichloroethane	5	ug/L											
1,3,5-Trimethylbenzene (Mesitylene)	3.1	ug/L											
1,4-Dichlorobenzene	75	ug/L											
2-Butanone (MEK)	1800	ug/L										1.20 J	
4-Chlorotoluene		ug/L											
4-Methyl-2-pentanone (MIBK)	500	ug/L											
Acetone	8200	ug/L				11.5						12.3	
Benzene	5	ug/L											
Bromodichloromethane		ug/L						0.170					
Bromoform	2.9	ug/L											
Bromomethane (Methyl bromide)	2.2	ug/L											
Carbon disulfide	0.0051	ug/L											
Chlorobenzene	100	ug/L											
Chloroethane	23	ug/L											
Chloroform	0.21	ug/L											
Chloromethane (Methyl chloride)	1.8	ug/L											
cis-1,2-Dichloroethene	70	ug/L	5.88	0.350 J	3.24	57.4	54.7	0.810	0.740 J	20.8	212	326	99.6
Dibromochloromethane	0.8	ug/L											
Ethylbenzene	700	ug/L											
Isopropylbenzene (Cumene)	170	ug/L											
m,p-Xylene		ug/L											
Methyl(Tert)Butyl Ether	3.9	ug/L											
Methylene Chloride (Dichloromethane)	5	ug/L				0.960 J						1.18 J	
Naphthalene	0.00028	ug/L				0.760 J						0.520 J	
n-Butylbenzene	370	ug/L											
n-Propylbenzene	370	ug/L											
o-Xylene		ug/L											
p-Isopropyltoluene		ug/L											
t-Butylbenzene	370	ug/L											
Tetrachloroethene (PCE)	5	ug/L	0.830 J		0.620 J	0.680 J		0.85	1.26		1.4	2.54	1.57
Toluene	1000	ug/L											
trans-1,2-Dichloroethene	100	ug/L				0.500 J					1.04	1.32	
trans-1,3-Dichloropropene		ug/L											
Trichloroethene (TCE)	5	ug/L	1.1	0.220 J	0.250 J	0.730 J		0.24	0.350 J	0.370 J	0.660 J	0.890 J	
Vinyl chloride	2	ug/L											
Xylenes (Total)	10000	ug/L											

Bold value indicates concentration above VCP RG.

Table 20
Monitoring Well Groundwater Results - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Location ID			MW-NSC-09B	MW-NSC-10B	MW-NSC-10B	MW-NSC-10C	MW-NSC-11B	MW-NSC-12B	MW-NSC-12B	MW-NSC-13C	MW-NSC-13C	MW-NSC-14B	MW-NSC-14B
Sample Date			04/24/2008	04/24/2008	6/23/2008	04/24/2008	04/24/2008	04/24/2008	6/23/2008	04/24/2008	6/23/2008	04/24/2008	04/24/2008
Depth Interval			20-25	25-30	25-30	55-60	25-30	25-30	25-30	55-60	55-60	20-25	20-25
Chemical Name	VCP RG	Unit											
1,1,1,2-Tetrachloroethane	0.52	ug/L											
1,1,1-Trichloroethane	200	ug/L						1.14	1.24			0.296 J	0.377 J
1,1,2-Trichloroethane	5	ug/L											
1,1-Dichloroethane	200	ug/L		1.38				4.98	5.01	1.24	1.37	0.915 J	1.04
1,1-Dichloroethene	7	ug/L											
1,1-Dichloropropene		ug/L											
1,2,4-Trichlorobenzene	70	ug/L											
1,2,4-Trimethylbenzene (Pseudocumene)	3.1	ug/L											
1,2-Dichlorobenzene	600	ug/L											
1,2-Dichloroethane	5	ug/L											
1,3,5-Trimethylbenzene (Mesitylene)	3.1	ug/L											
1,4-Dichlorobenzene	75	ug/L											
2-Butanone (MEK)	1800	ug/L	10.3	11.0		10.4	11.2	11.0		10.8		10.9	11.3
4-Chlorotoluene		ug/L											
4-Methyl-2-pentanone (MIBK)	500	ug/L		0.342 J				0.388 J		0.331 J			0.319 J
Acetone	8200	ug/L	24.1	26.4		25.0	25.6	27.1		27.3		25.0	27.9
Benzene	5	ug/L											
Bromodichloromethane		ug/L								0.987 J			
Bromoform	2.9	ug/L								3.10 J			
Bromomethane (Methyl bromide)	2.2	ug/L											
Carbon disulfide	0.0051	ug/L											
Chlorobenzene	100	ug/L											
Chloroethane	23	ug/L											
Chloroform	0.21	ug/L								0.968 J			
Chloromethane (Methyl chloride)	1.8	ug/L											
cis-1,2-Dichloroethene	70	ug/L		4.38	2.56	0.446 J		107	103	2.84	3.84	14.0	15.2
Dibromochloromethane	0.8	ug/L								2.72 J			
Ethylbenzene	700	ug/L											
Isopropylbenzene (Cumene)	170	ug/L											
m,p-Xylene		ug/L											
Methyl(Tert)Butyl Ether	3.9	ug/L											
Methylene Chloride (Dichloromethane)	5	ug/L	1.80 J	1.08 J		1.26 J	1.65 J	2.03 J		1.64 J		1.13 J	1.38 J
Naphthalene	0.00028	ug/L											
n-Butylbenzene	370	ug/L											
n-Propylbenzene	370	ug/L											
o-Xylene		ug/L											
p-Isopropyltoluene		ug/L											
t-Butylbenzene	370	ug/L											
Tetrachloroethene (PCE)	5	ug/L	0.553 J	1.64	1.620			1.67	2.81	1.40	2.67	2.49	2.43
Toluene	1000	ug/L				0.218 J							
trans-1,2-Dichloroethene	100	ug/L						0.958 J					
trans-1,3-Dichloropropene		ug/L											
Trichloroethene (TCE)	5	ug/L						0.601 J				0.261 J	0.285 J
Vinyl chloride	2	ug/L											
Xylenes (Total)	10000	ug/L											

Bold value indicates concentration above VCP RG.

Table 20
Monitoring Well Groundwater Results - Detections Only
NSC 1200 Highway 30 East
Grand Island, Nebraska

Location ID			MW-NSC-14B	MW-NSC-14D	MW-NSC-14D	MW-NSC-15B	MW-NSC-15B	MW-NSC-15D	MW-NSC-16C	MW-NSC-16C	MW-NSC-17A	MW-NSC-17A	MW-NSC-17C
Sample Date			6/23/2008	04/24/2008	6/23/2008	04/24/2008	6/23/2008	04/24/2008	04/24/2008	6/23/2008	04/24/2008	6/23/2008	04/24/2008
Depth Interval			20-25	70-75	70-75	35-40	35-40	65-70	50-55	50-55	15-20	15-20	40-45
Chemical Name	VCP RG	Unit											
1,1,1,2-Tetrachloroethane	0.52	ug/L											
1,1,1-Trichloroethane	200	ug/L				0.243 J				1.45	1.45		2.15
1,1,2-Trichloroethane	5	ug/L											
1,1-Dichloroethane	200	ug/L		0.354 J		0.889 J			1.04		5.02	5.25	4.12
1,1-Dichloroethene	7	ug/L								0.570 J			0.867 J
1,1-Dichloropropene		ug/L											
1,2,4-Trichlorobenzene	70	ug/L											
1,2,4-Trimethylbenzene (Pseudocumene)	3.1	ug/L											
1,2-Dichlorobenzene	600	ug/L											
1,2-Dichloroethane	5	ug/L											
1,3,5-Trimethylbenzene (Mesitylene)	3.1	ug/L											
1,4-Dichlorobenzene	75	ug/L											
2-Butanone (MEK)	1800	ug/L		11.4		12.3		11.9	9.99 J		11.7		10.4
4-Chlorotoluene		ug/L											
4-Methyl-2-pentanone (MIBK)	500	ug/L		0.513 J									
Acetone	8200	ug/L		25.3		25.5		24.2	24.6		28.1		25.7
Benzene	5	ug/L											
Bromodichloromethane		ug/L											0.271 J
Bromoform	2.9	ug/L				0.451 J		0.604 J					0.598 J
Bromomethane (Methyl bromide)	2.2	ug/L		0.763 J									
Carbon disulfide	0.0051	ug/L		0.186 J									
Chlorobenzene	100	ug/L											
Chloroethane	23	ug/L											
Chloroform	0.21	ug/L											0.264 J
Chloromethane (Methyl chloride)	1.8	ug/L											
cis-1,2-Dichloroethene	70	ug/L	13.6	3.81	2.91	14.4	17.1		1.8	1.26	129	114	120
Dibromochloromethane	0.8	ug/L				0.286 J		0.390 J					0.526 J
Ethylbenzene	700	ug/L											
Isopropylbenzene (Cumene)	170	ug/L											
m,p-Xylene		ug/L											
Methyl(Tert)Butyl Ether	3.9	ug/L											
Methylene Chloride (Dichloromethane)	5	ug/L		2.15 J		1.46 J		1.44 J	1.91 J		2.01 J		2.26 J
Naphthalene	0.00028	ug/L											
n-Butylbenzene	370	ug/L											
n-Propylbenzene	370	ug/L											
o-Xylene		ug/L											
p-Isopropyltoluene		ug/L											
t-Butylbenzene	370	ug/L											
Tetrachloroethene (PCE)	5	ug/L	3.35	2.48	3.21	1.56	2.32		2.23	2.37	5.07	5.58	5.42
Toluene	1000	ug/L											
trans-1,2-Dichloroethene	100	ug/L								0.978 J			0.851 J
trans-1,3-Dichloropropene		ug/L											
Trichloroethene (TCE)	5	ug/L				0.244 J				1.16			1.11
Vinyl chloride	2	ug/L											
Xylenes (Total)	10000	ug/L											

Bold value indicates concentration above VCP RG.

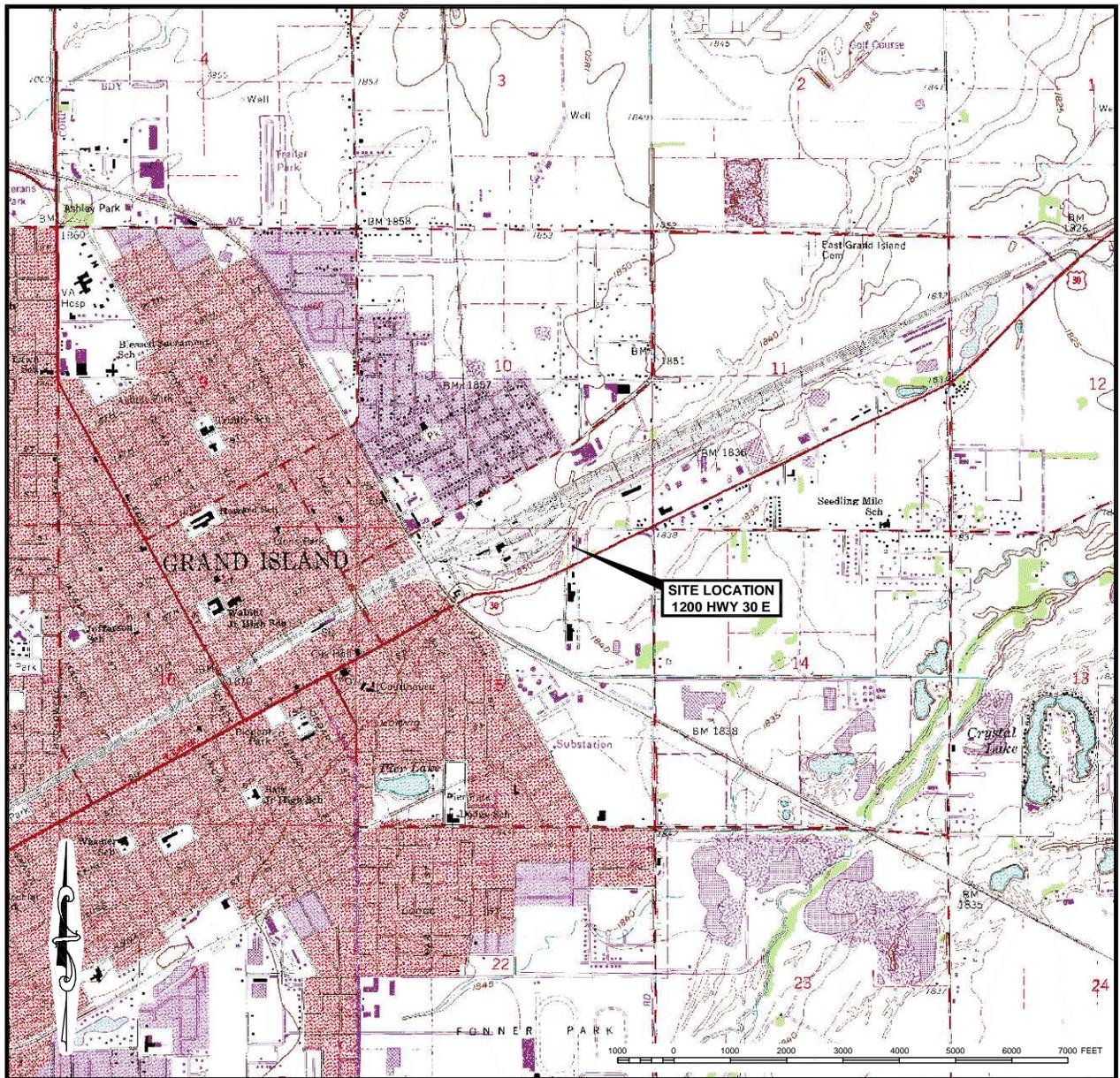
Table 21
Private Well Results for PCE
NSC 1200 Highway 30 East
Grand Island, Nebraska

Private Well ID	PCE Result (ug/L)	Private Well ID	PCE Result (ug/L)	Private Well ID	PCE Result (ug/L)
9	nd	238	12.9 *	300	nd
20	nd	239	16.0 *	301	nd
23	nd	240	11.7 *	303	nd
36	1.8	241	13.2 *	304	nd
40	nd	242	14.1 *	307	nd
42	1.8	243	14.3 *	308	nd
48	nd	244	nd	317	nd
53	nd	245	0.758 J	319	nd
54	5.9 *	246	0.490 J	320	nd
56	12.6 *	247	1.48	321	nd
60	1.2	248	2.21	322	nd
72	3.0	250	3.50	323	nd
73	1.3	251	4.05	324	nd
100	nd	252	0.645 J	325	nd
102	nd	253	1.45	326	nd
141	1.1	254	5.98 *	327	nd
152	2.4	255	15.0 *	328	nd
155	3.3	257	nd	329	nd
201	nd	258	nd	330	nd
202	1.51	259	nd	331	nd
203	0.717 J	260	nd	332	nd
204	2.18	261	nd	333	nd
205	2.75	262	nd	335	nd
206	3.07	263	nd	336	nd
207	4.72	264	nd	337	nd
208	4.03	265	nd	338	nd
209	9.10 *	266	nd	339	nd
210	8.11 *	267	nd	340	nd
211	2.36	268	nd	341	nd
212	11.1 *	269	nd	342	nd
213	10.2 *	271	nd	343	nd
214	8.12 *	272	nd	344	nd
215	9.63 *	273	nd	345	nd
216	8.49 *	274	nd	346	nd
217	nd	275	nd	347	nd
218	4.27	276	nd	348	11.7 *
219	nd	278	nd	349	0.423 J
220	1.40	279	1.02	350	2.54
221	nd	280	nd	351	nd
222	1.16	281	1.37	352	11.0 *
223	0.971 J	282	nd	353	nd
224	0.769 J	283	2.08	354	0.51 J
225	2.44	284	0.891 J	355	nd
226	0.532 J	285	nd	356	0.497 J
227	2.35	286	nd	357	1.15
228	3.76	288	nd	360	nd
229	5.52 *	289	nd	361	nd
230	8.95 *	290	nd	362	nd
231	6.85 *	291	nd	363	0.39 J
232	8.30 *	293	nd	364	nd
233	9.62 *	294	nd	365	nd
234	10.5 *	295	nd	366	nd
235	10.9 *	296	nd	367	nd
236	11.0 *	297	nd	368	nd
237	12.0 *	298	nd		

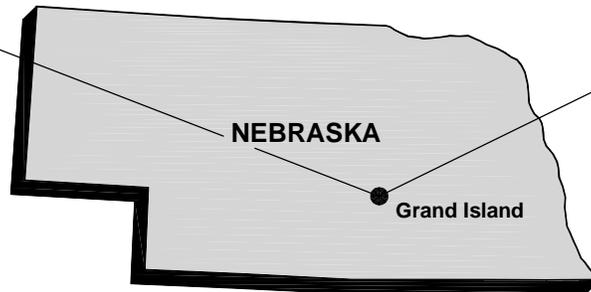
* indicates value above U.S. Environmental Protection Agency maximum contaminant level (MCL) for PCE of 5 ug/L.
J indicates PCE was detected at an estimated value below the laboratory reporting limit of 1.00 ug/L.
nd indicates that PCE was not detected at the laboratory method detection limit of 0.380 ug/L.

Project Number 26780000

FIGURES



Source: USGS 7.50' Quad: Grand Island, NE (1:24000)

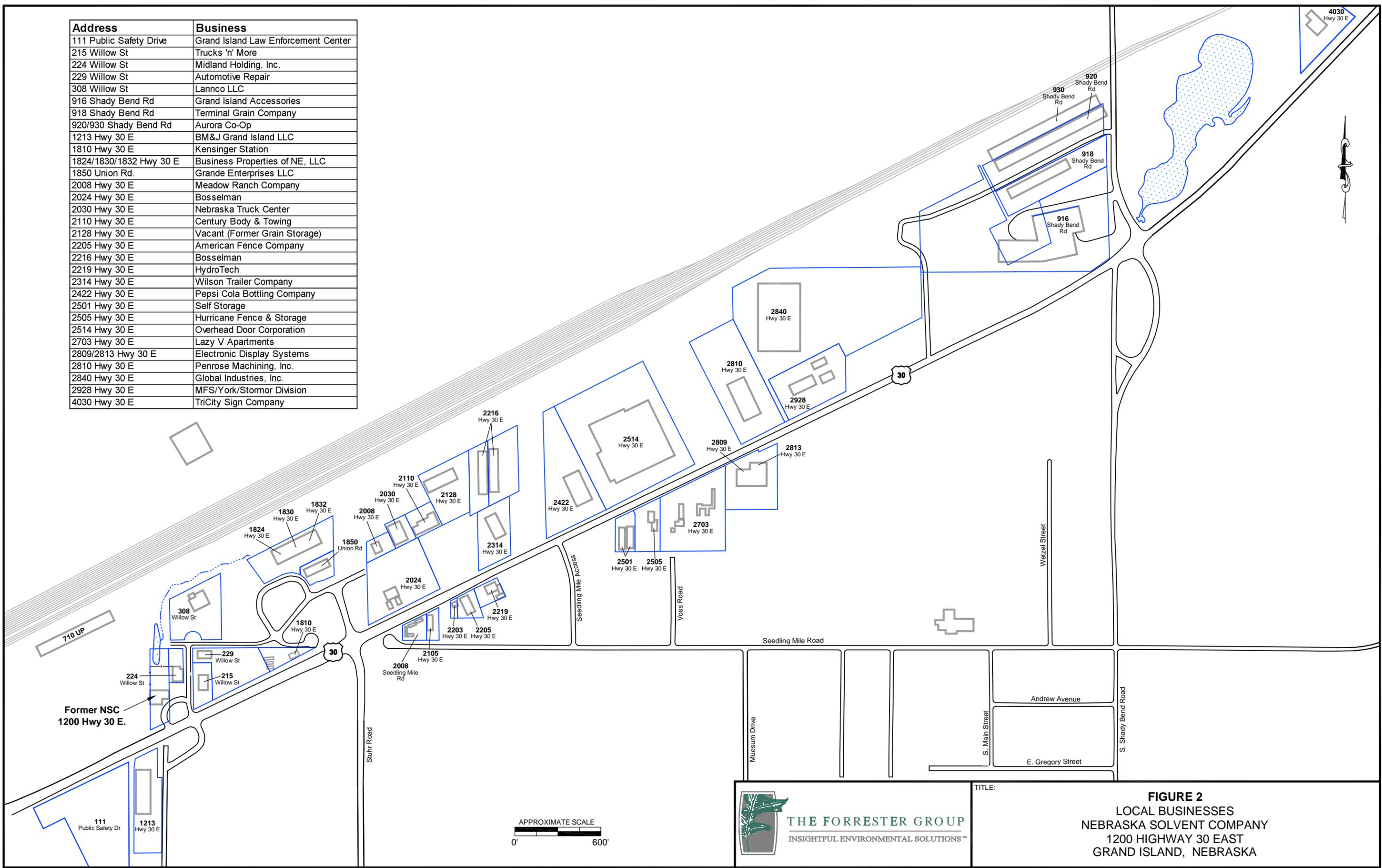


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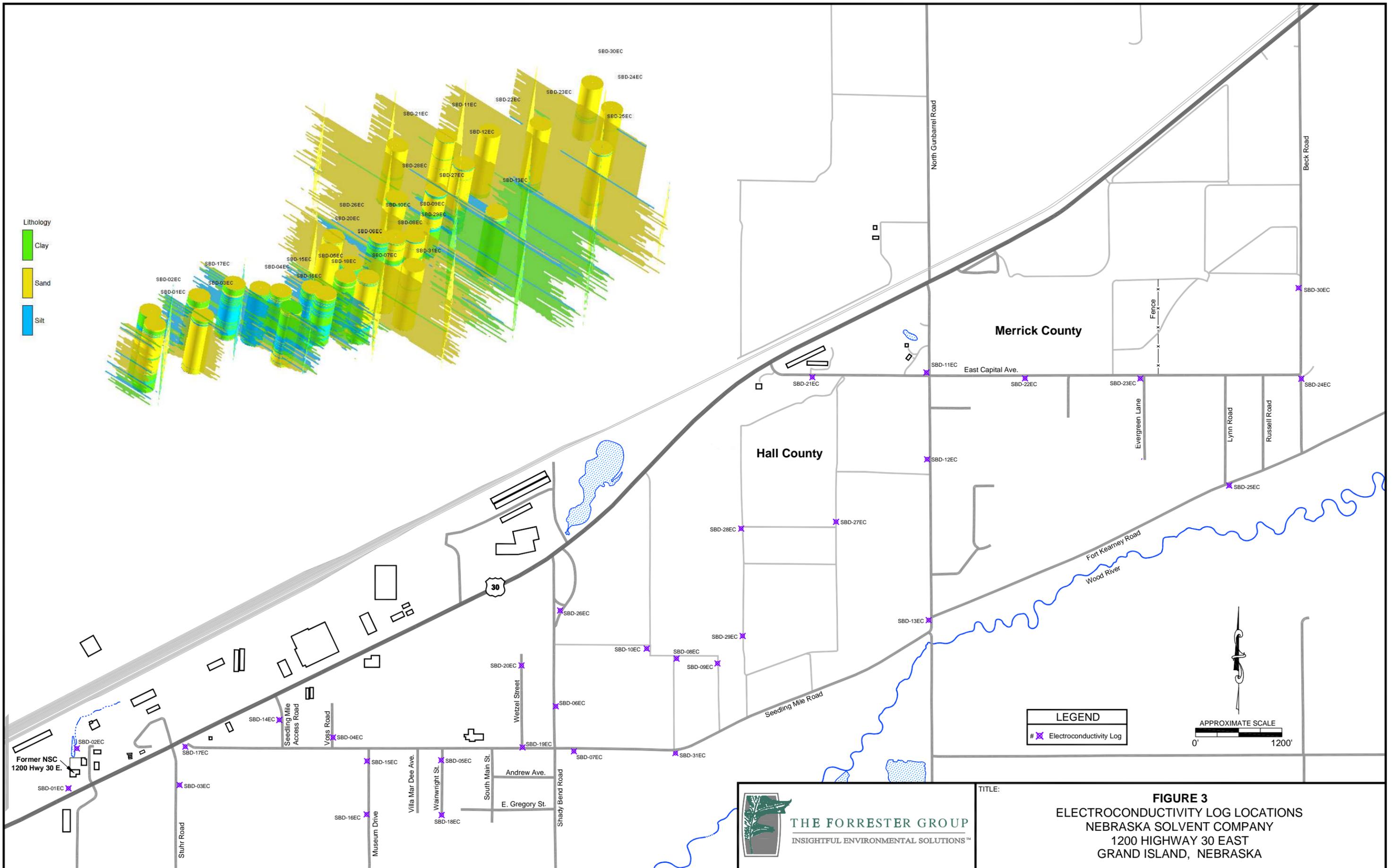
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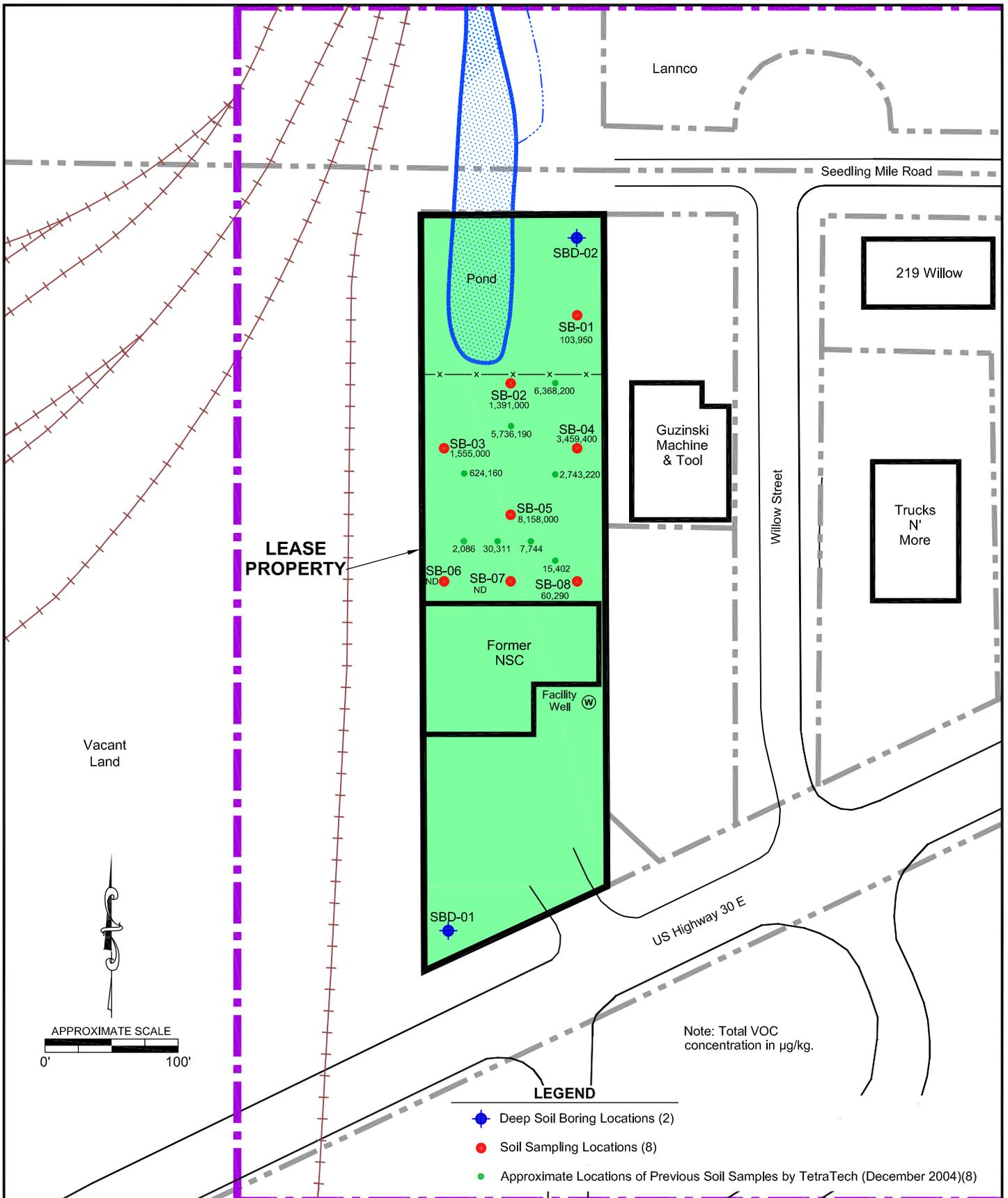
FIGURE 1
SITE LOCATION MAP
NEBRASKA SOLVENT COMPANY
1200 HIGHWAY 30 EAST
GRAND ISLAND, NEBRASKA

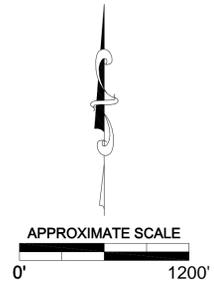
Address	Business
111 Public Safety Drive	Grand Island Law Enforcement Center
215 Willow St	Trucks 'n' More
224 Willow St	Midland Holding, Inc.
229 Willow St	Automotive Repair
308 Willow St	Lannco LLC
916 Shady Bend Rd	Grand Island Accessories
918 Shady Bend Rd	Terminal Grain Company
920/930 Shady Bend Rd	Aurora Co-Op
1213 Hwy 30 E	BM&J Grand Island LLC
1810 Hwy 30 E	Kensinger Station
1824/1830/1832 Hwy 30 E	Business Properties of NE, LLC
1850 Union Rd.	Grande Enterprises LLC
2008 Hwy 30 E	Meadow Ranch Company
2024 Hwy 30 E	Bosselman
2030 Hwy 30 E	Nebraska Truck Center
2110 Hwy 30 E	Century Body & Towing
2128 Hwy 30 E	Vacant (Former Grain Storage)
2205 Hwy 30 E	American Fence Company
2216 Hwy 30 E	Bosselman
2219 Hwy 30 E	HydroTech
2314 Hwy 30 E	Wilson Trailer Company
2422 Hwy 30 E	Pepsi Cola Bottling Company
2501 Hwy 30 E	Self Storage
2505 Hwy 30 E	Hurricane Fence & Storage
2514 Hwy 30 E	Overhead Door Corporation
2703 Hwy 30 E	Lazy V Apartments
2809/2813 Hwy 30 E	Electronic Display Systems
2810 Hwy 30 E	Penrose Machining, Inc.
2840 Hwy 30 E	Global Industries, Inc.
2928 Hwy 30 E	MFS/York/Stomor Division
4030 Hwy 30 E	TriCity Sign Company



TITLE:
FIGURE 2
LOCAL BUSINESSES
NEBRASKA SOLVENT COMPANY
1200 HIGHWAY 30 EAST
GRAND ISLAND, NEBRASKA







Central Nebraska
Regional Airport

Merrick County

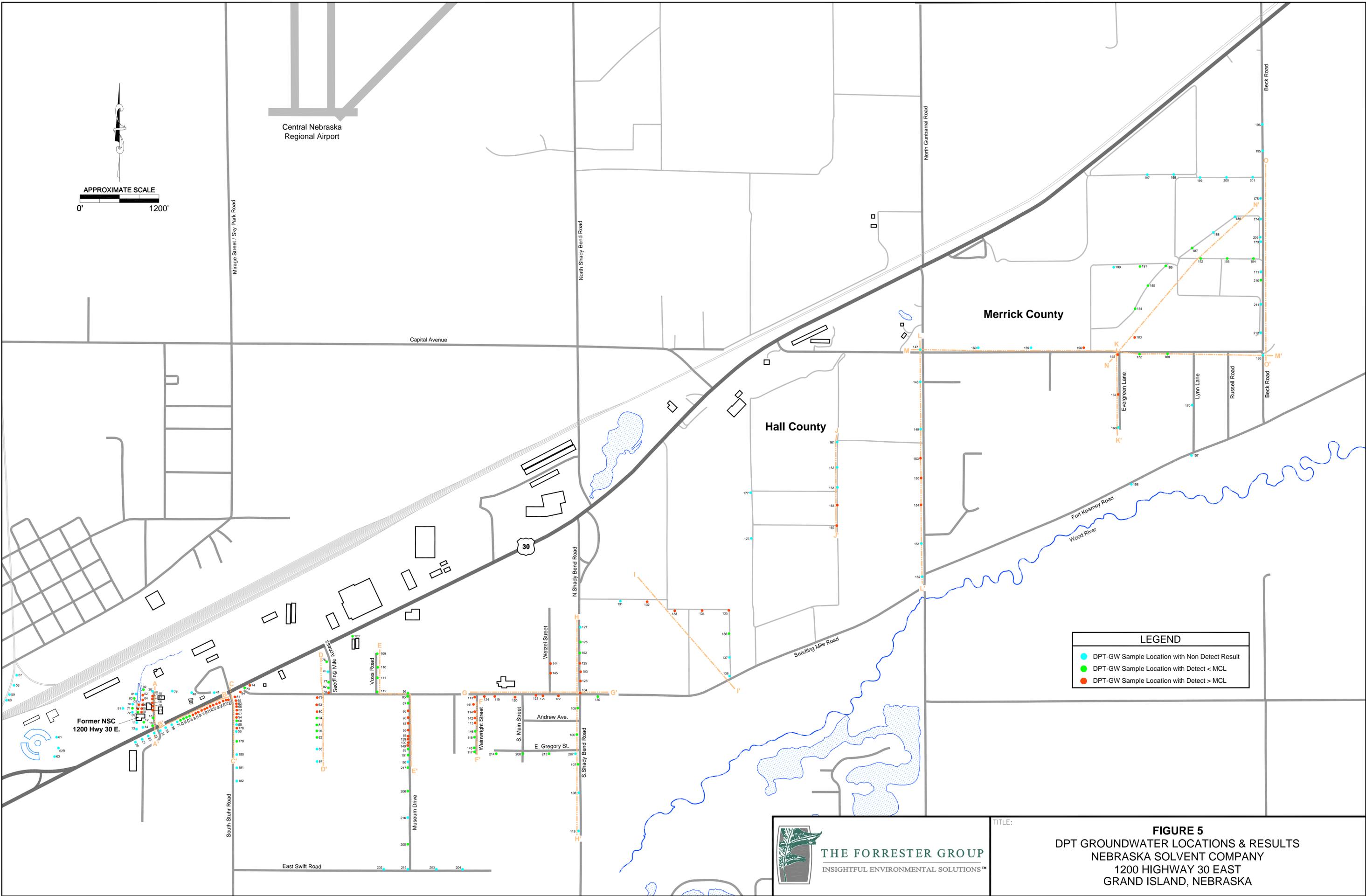
Hall County

LEGEND

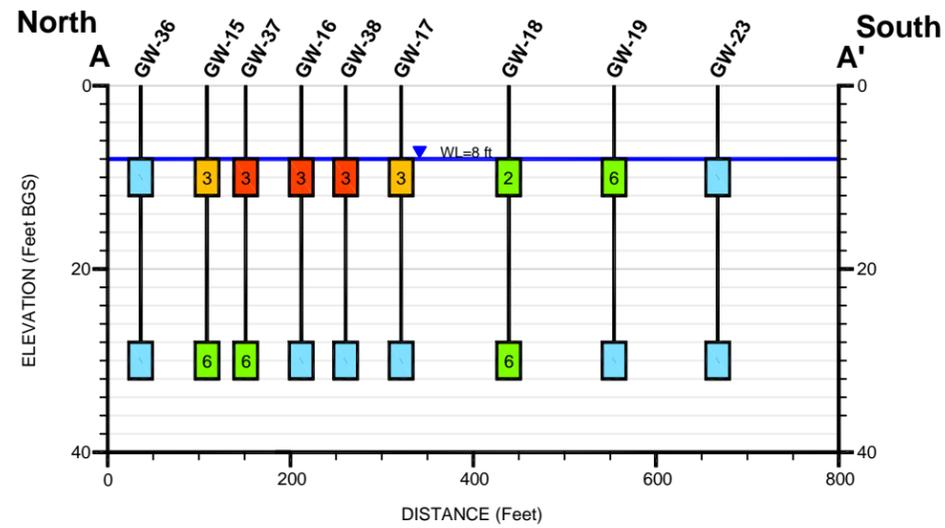
- DPT-GW Sample Location with Non Detect Result
- DPT-GW Sample Location with Detect < MCL
- DPT-GW Sample Location with Detect > MCL



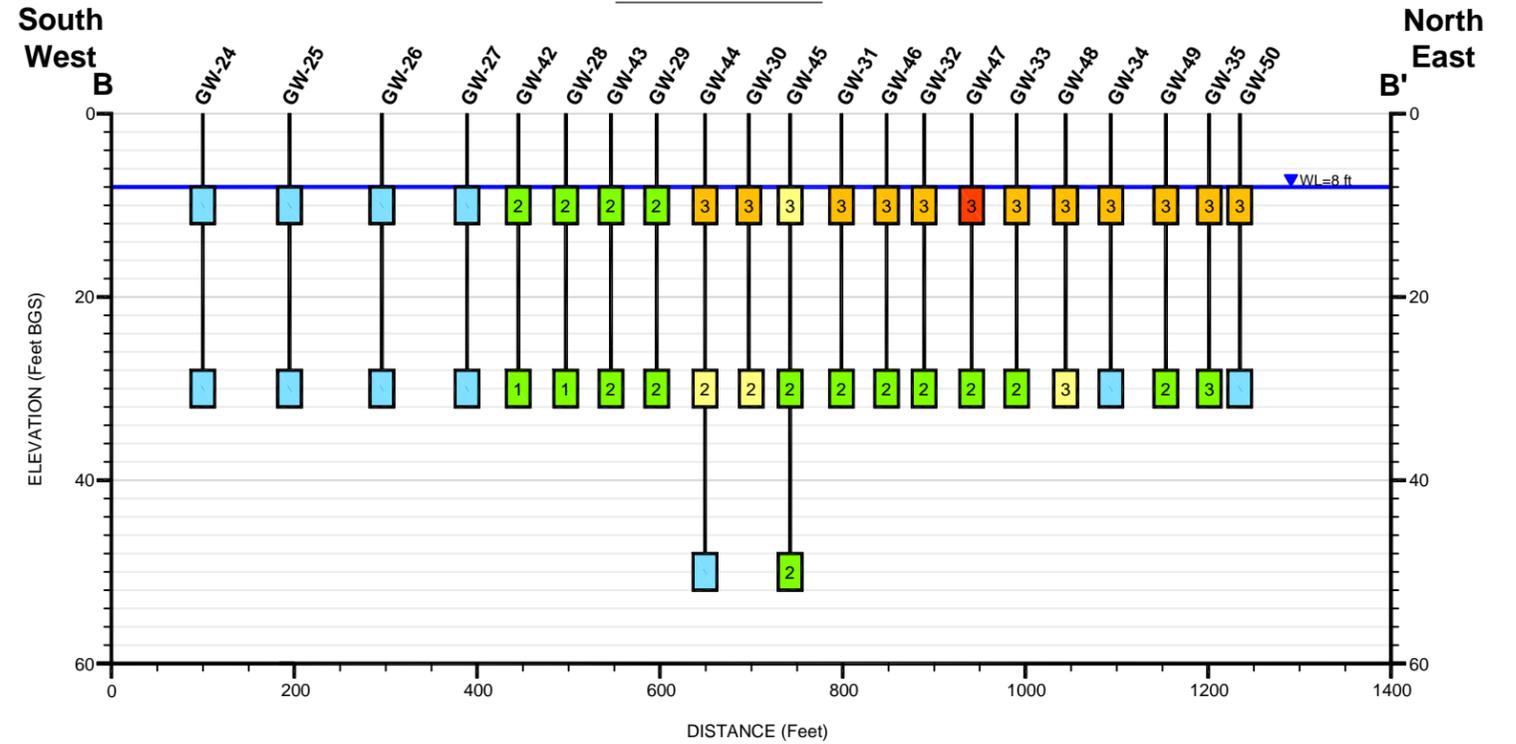
TITLE: **FIGURE 5**
DPT GROUNDWATER LOCATIONS & RESULTS
NEBRASKA SOLVENT COMPANY
1200 HIGHWAY 30 EAST
GRAND ISLAND, NEBRASKA



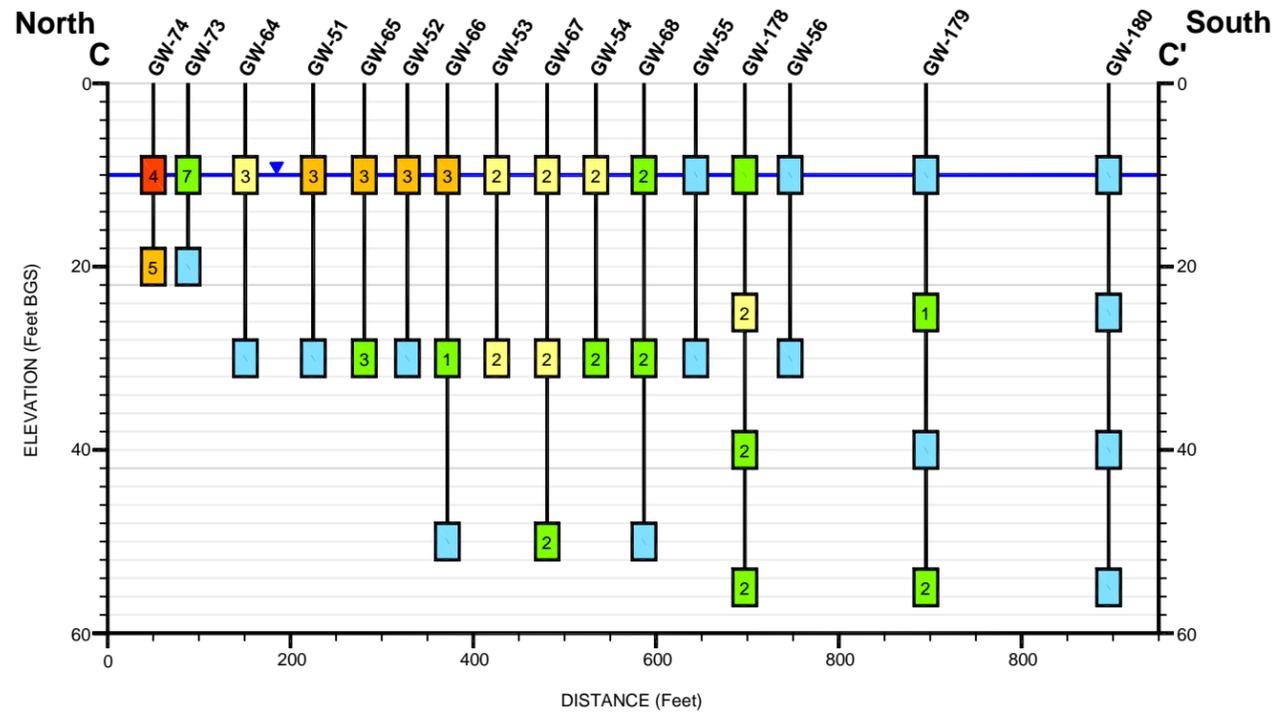
SECTION A-A'



SECTION B-B'



SECTION C-C'



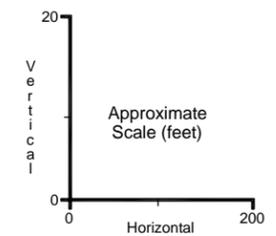
LEGEND

- No Detections
- Detections < MCL
- Detections > MCL
- Detections > 10x MCL
- Detections > 100x MCL

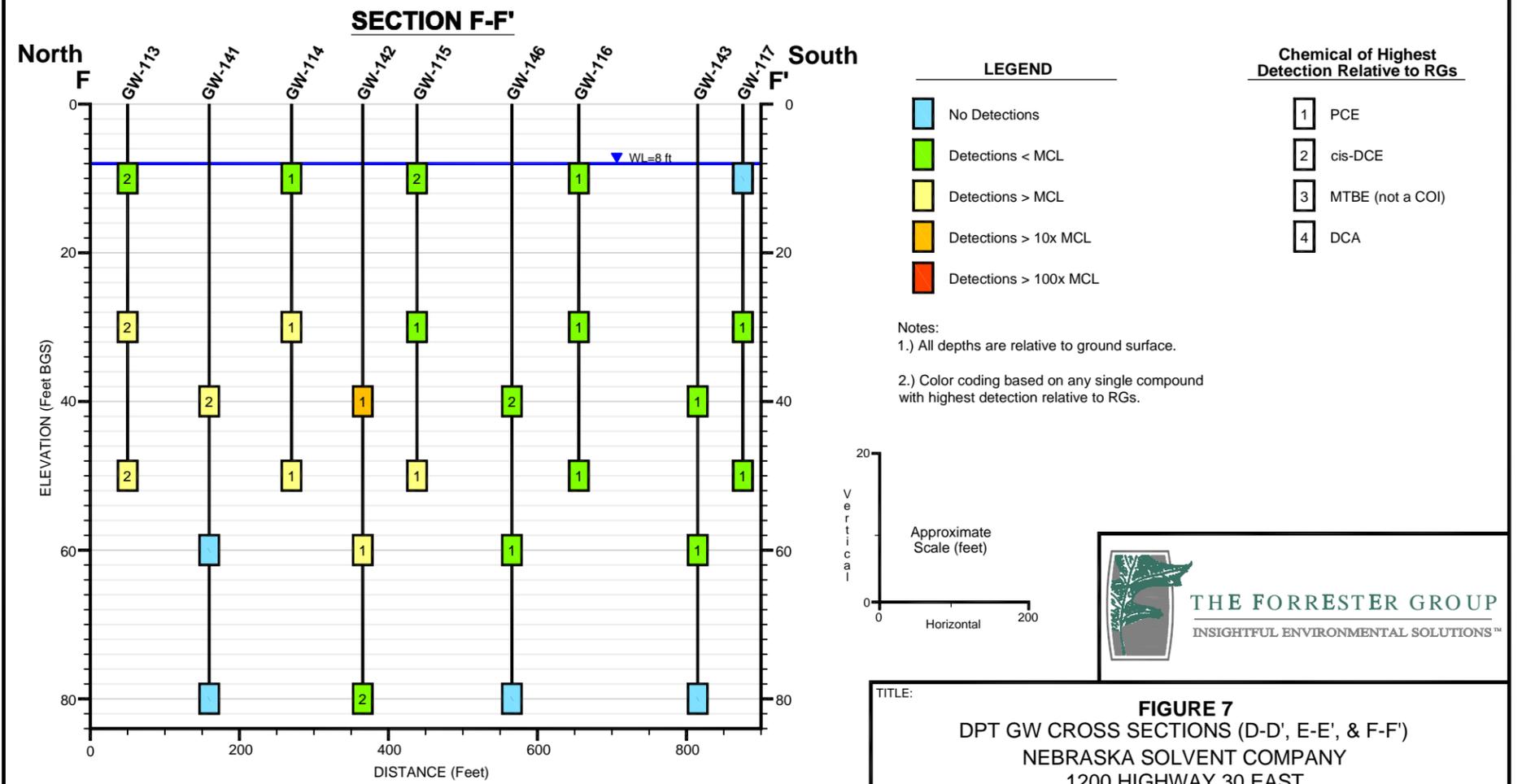
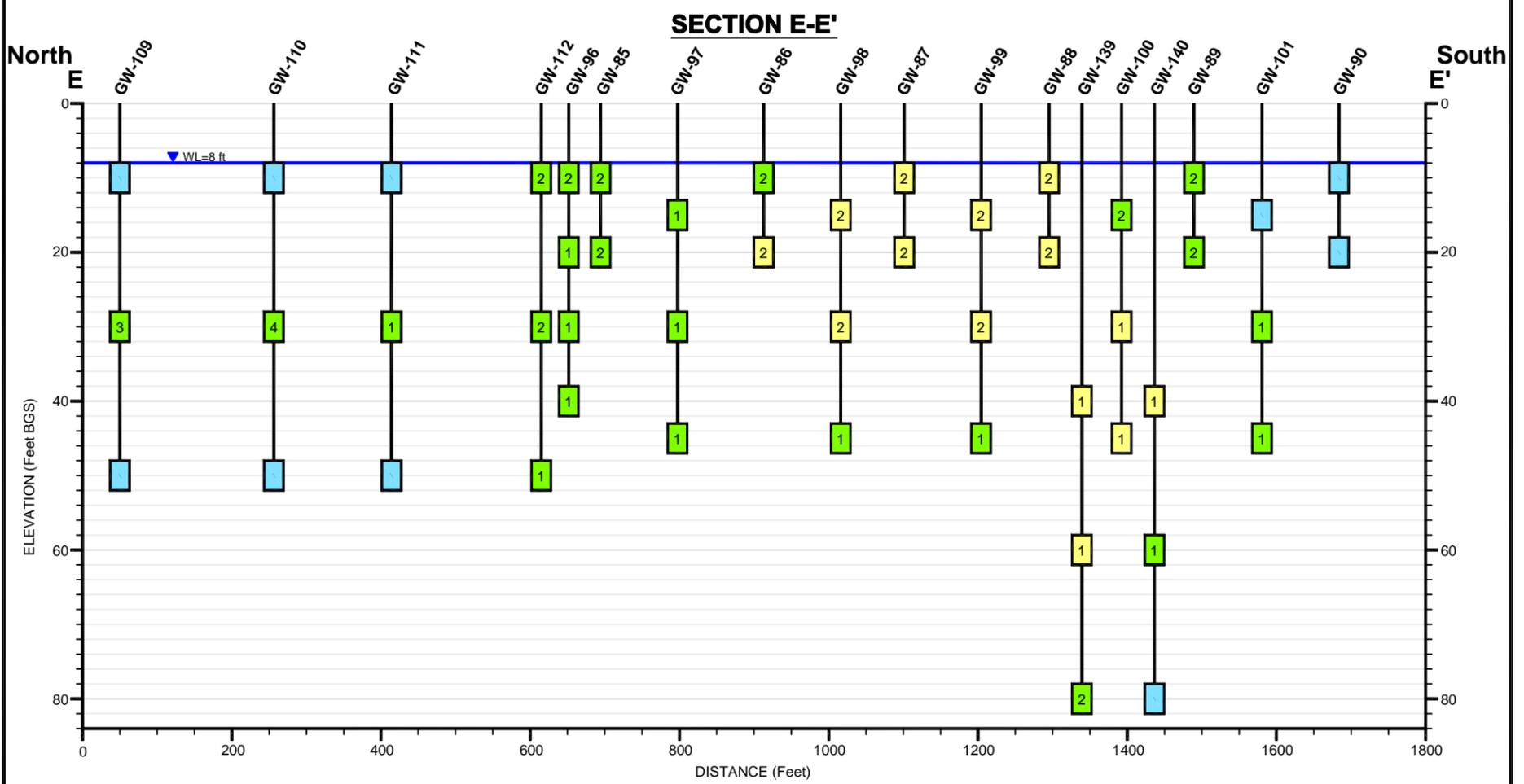
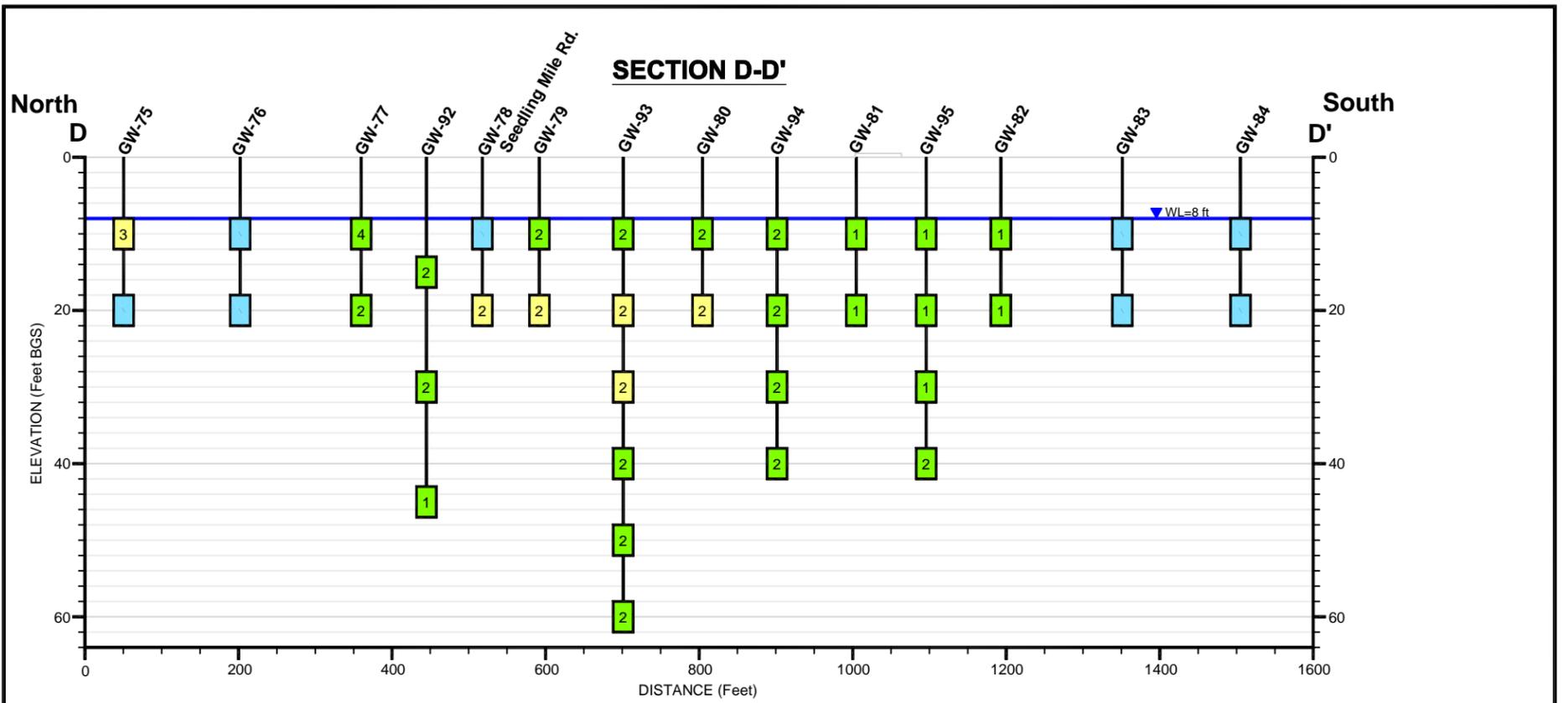
Notes:
 1.) All depths are relative to ground surface.
 2.) Color coding based on any single compound with highest detection relative to RGs.

Chemical of Highest Detection Relative to RGs

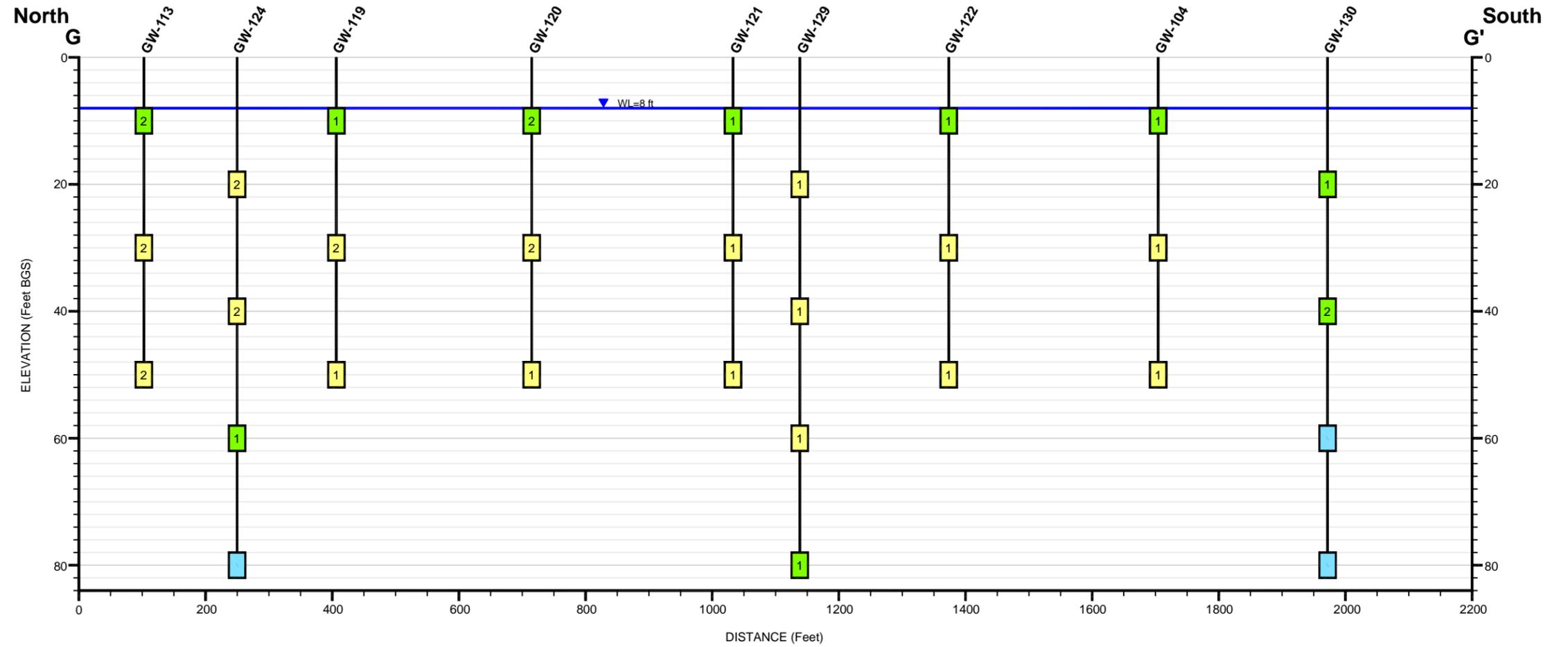
- 1 PCE
- 2 cis-DCE
- 3 VC
- 4 Naphthalene
- 5 1,2,4-TMB
- 6 Toluene
- 7 Isopropylbenzene



TITLE: **FIGURE 6**
 DPT GW CROSS SECTIONS (A-A', B-B', & C-C')
 NEBRASKA SOLVENT COMPANY
 1200 HIGHWAY 30 EAST
 GRAND ISLAND, NEBRASKA



SECTION G-G'



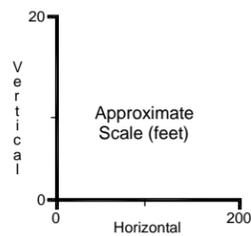
LEGEND

- No Detections
- Detections < MCL
- Detections > MCL
- Detections > 10x MCL
- Detections > 100x MCL

Notes:
 1.) All depths are relative to ground surface.
 2.) Color coding based on any single compound with highest detection relative to RGs.

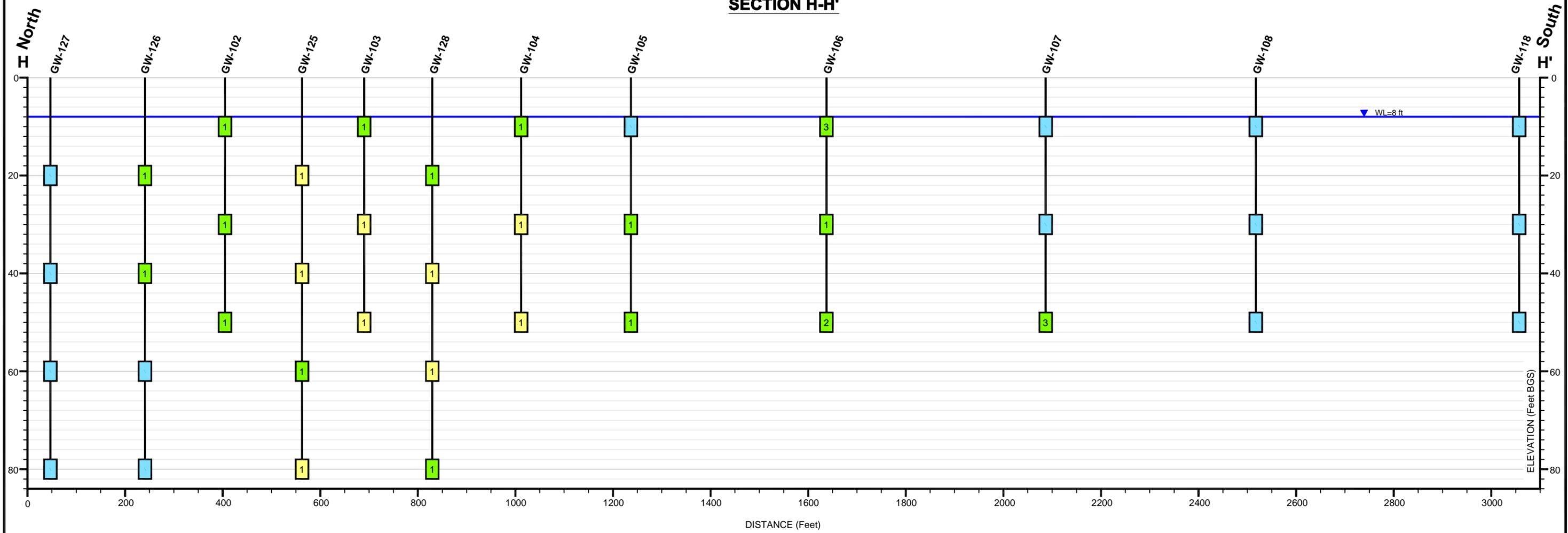
Chemical of Highest Detection Relative to RGs

- 1 PCE
- 2 cis-DCE



TITLE: **FIGURE 8**
 DPT GW CROSS SECTION (G-G')
 NEBRASKA SOLVENT COMPANY
 1200 HIGHWAY 30 EAST
 GRAND ISLAND, NEBRASKA

SECTION H-H'



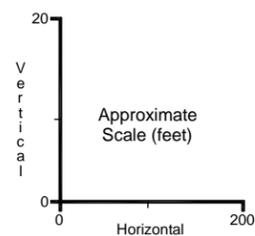
LEGEND

- No Detections
- Detections < MCL
- Detections > MCL
- Detections > 10x MCL
- Detections > 100x MCL

Notes:
 1.) All depths are relative to ground surface.
 2.) Color coding based on any single compound with highest detection relative to RGs.

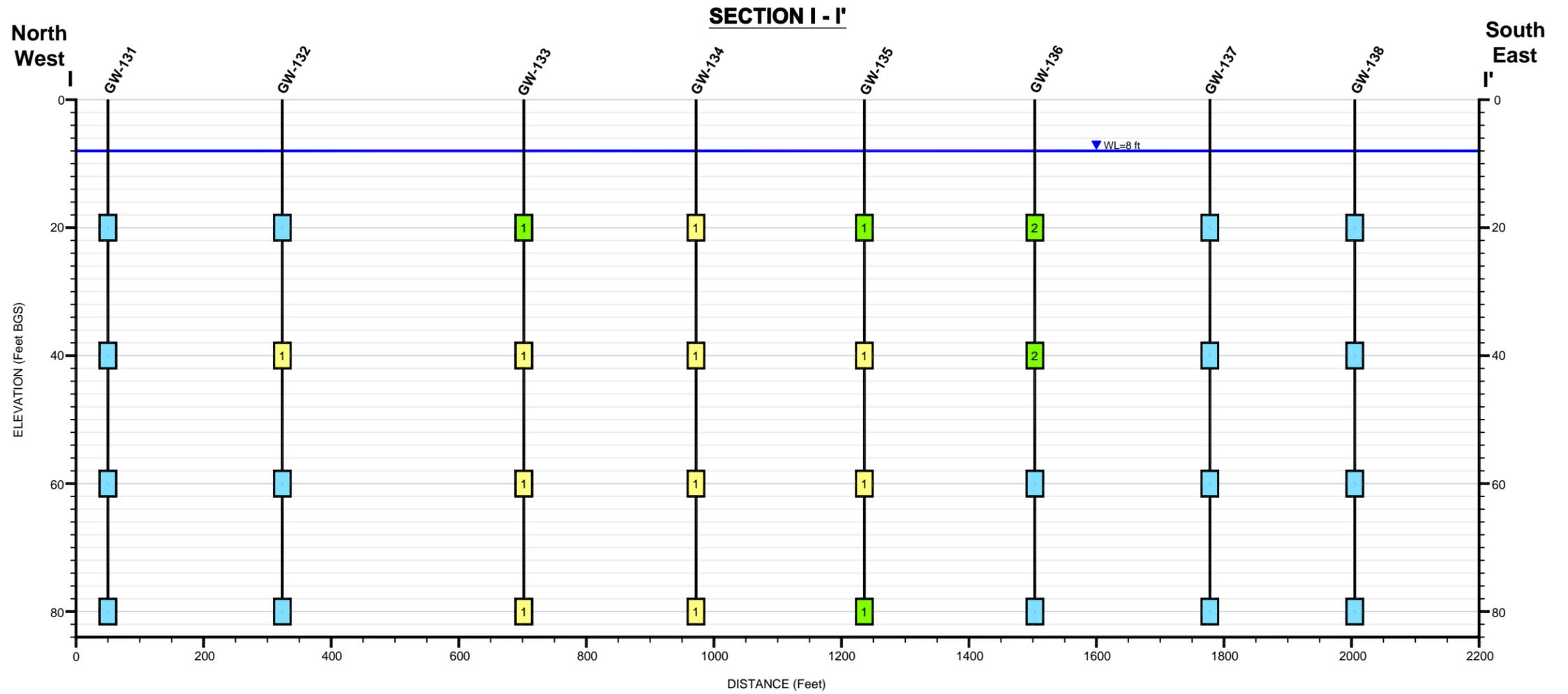
Chemical of Highest Detection Relative to RGs

- 1 PCE
- 2 cis-DCE
- 3 1,2,4-TMB



TITLE:

FIGURE 9
 DPT GW CROSS SECTION (H-H')
 NEBRASKA SOLVENT COMPANY
 1200 HIGHWAY 30 EAST
 GRAND ISLAND, NEBRASKA



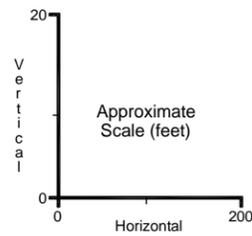
LEGEND

- No Detections
- Detections < MCL
- Detections > MCL
- Detections > 10x MCL
- Detections > 100x MCL

Notes:
 1.) All depths are relative to ground surface.
 2.) Color coding based on any single compound with highest detection relative to RGs.

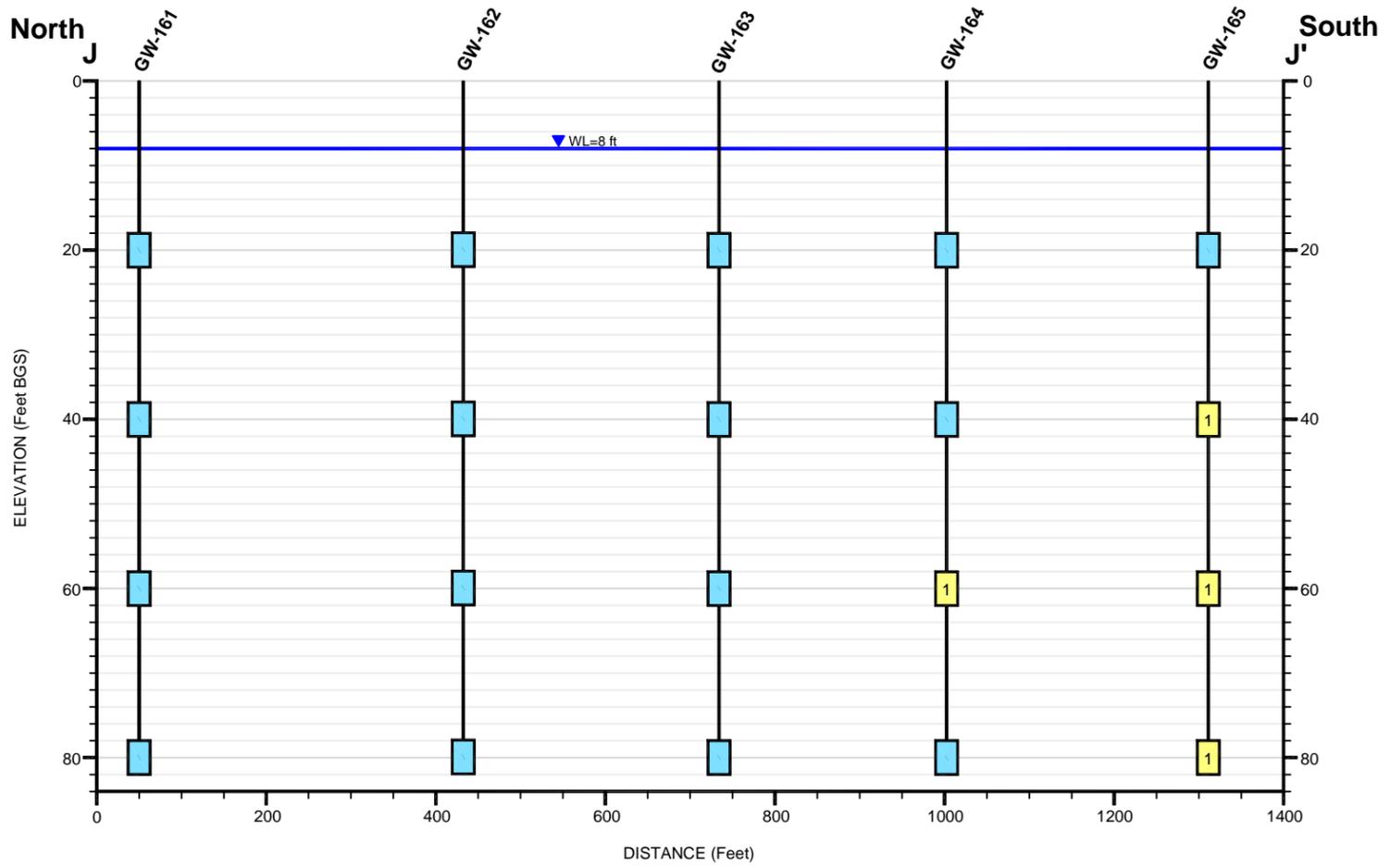
Chemical of Highest Detection Relative to RGs

- 1 PCE
- 2 cis-DCE

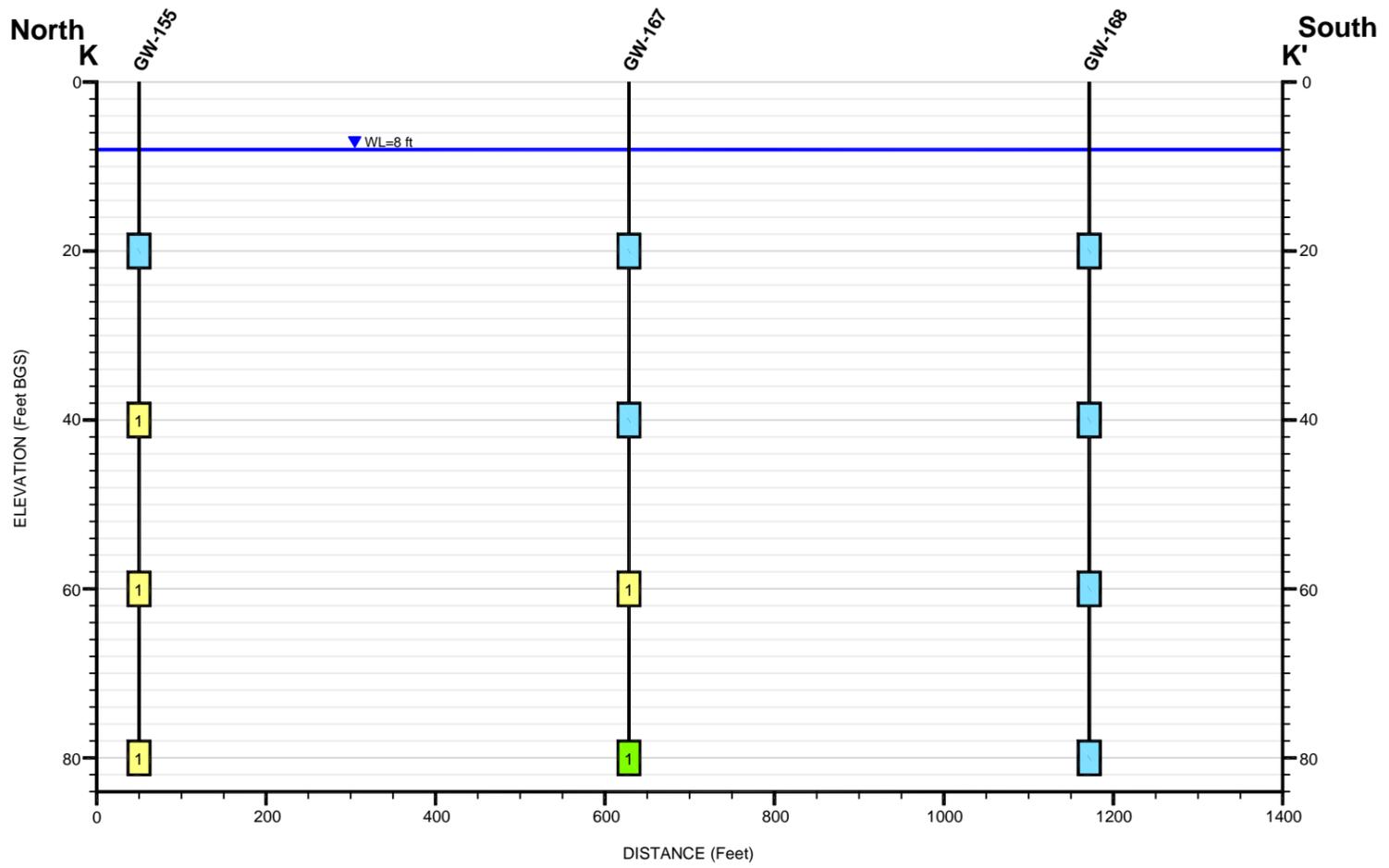


TITLE: **FIGURE 10**
 DPT GW CROSS SECTION (I-I')
 NEBRASKA SOLVENT COMPANY
 1200 HIGHWAY 30 EAST
 GRAND ISLAND, NEBRASKA

SECTION J - J'

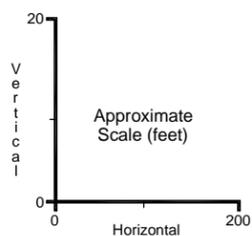


SECTION K - K'



LEGEND

- No Detections
- Detections < MCL
- Detections > MCL
- Detections > 10x MCL
- Detections > 100x MCL



Chemical of Highest Detection Relative to RGs

1 PCE

- Notes:
- All depths are relative to ground surface.
 - Color coding based on any single compound with highest detection relative to RGs.

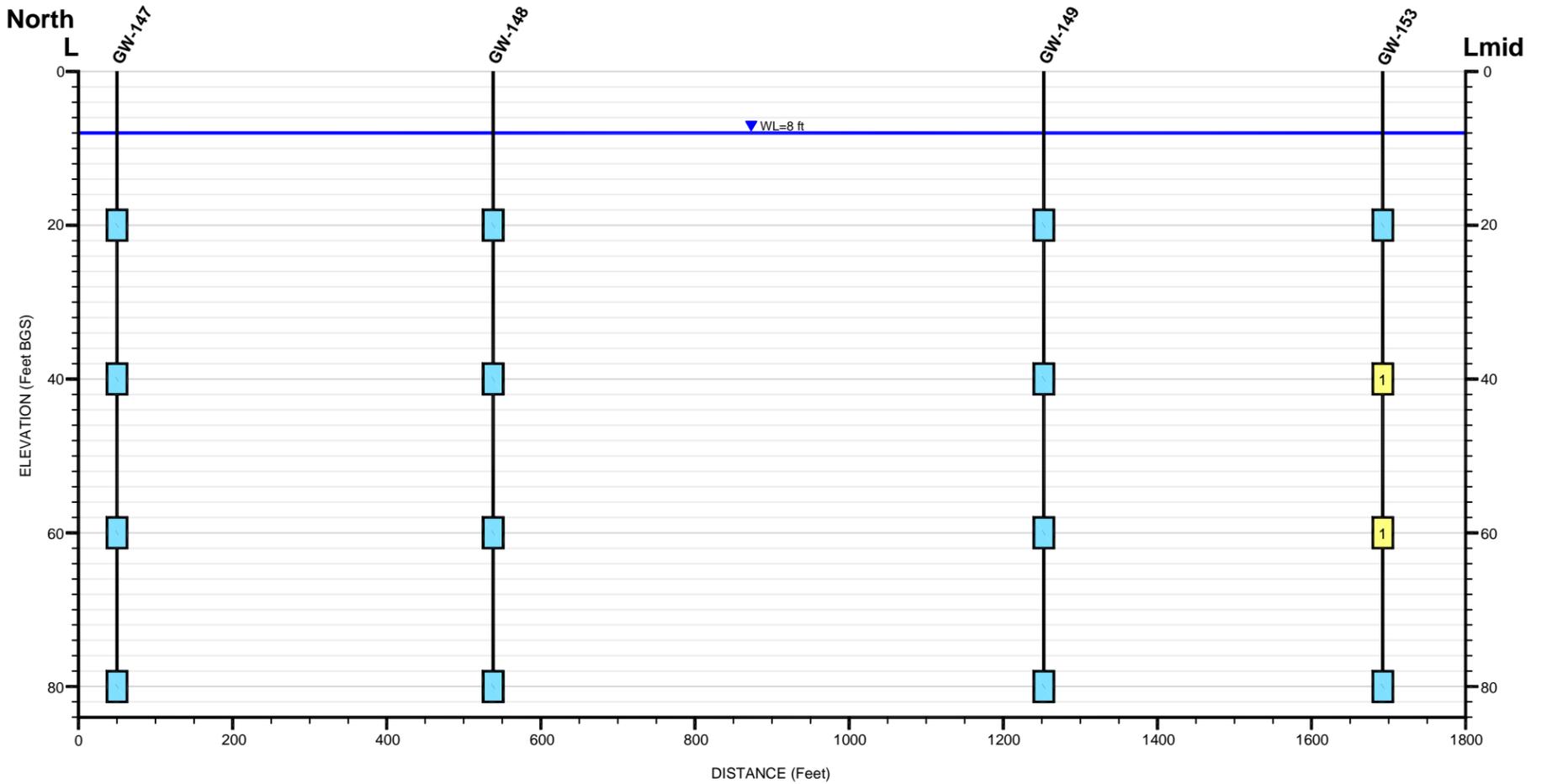


THE FORRESTER GROUP
INSIGHTFUL ENVIRONMENTAL SOLUTIONS™

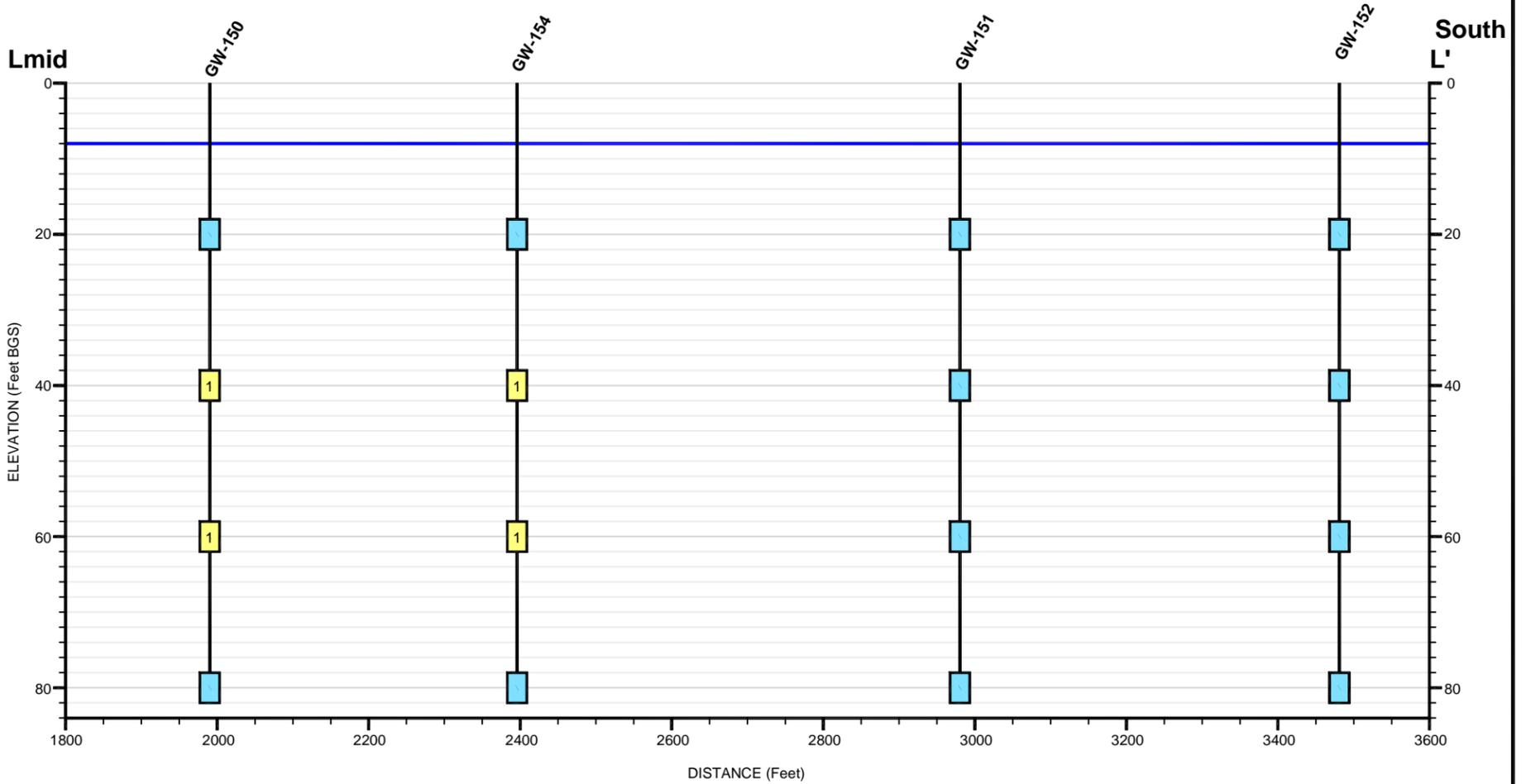
TITLE:

FIGURE 11
DPT GW CROSS SECTIONS (J-J' & K-K')
NEBRASKA SOLVENT COMPANY
1200 HIGHWAY 30 EAST
GRAND ISLAND, NEBRASKA

SECTION L - Lmid

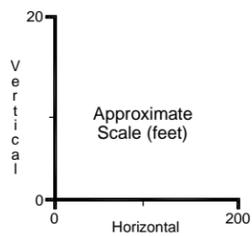


SECTION Lmid - L'



LEGEND

- No Detections
- Detections < MCL
- Detections > MCL
- Detections > 10x MCL
- Detections > 100x MCL



Chemical of Highest Detection Relative to RGs

- 1 PCE

- Notes:
- 1.) All depths are relative to ground surface.
 - 2.) Color coding based on any single compound with highest detection relative to RGs.

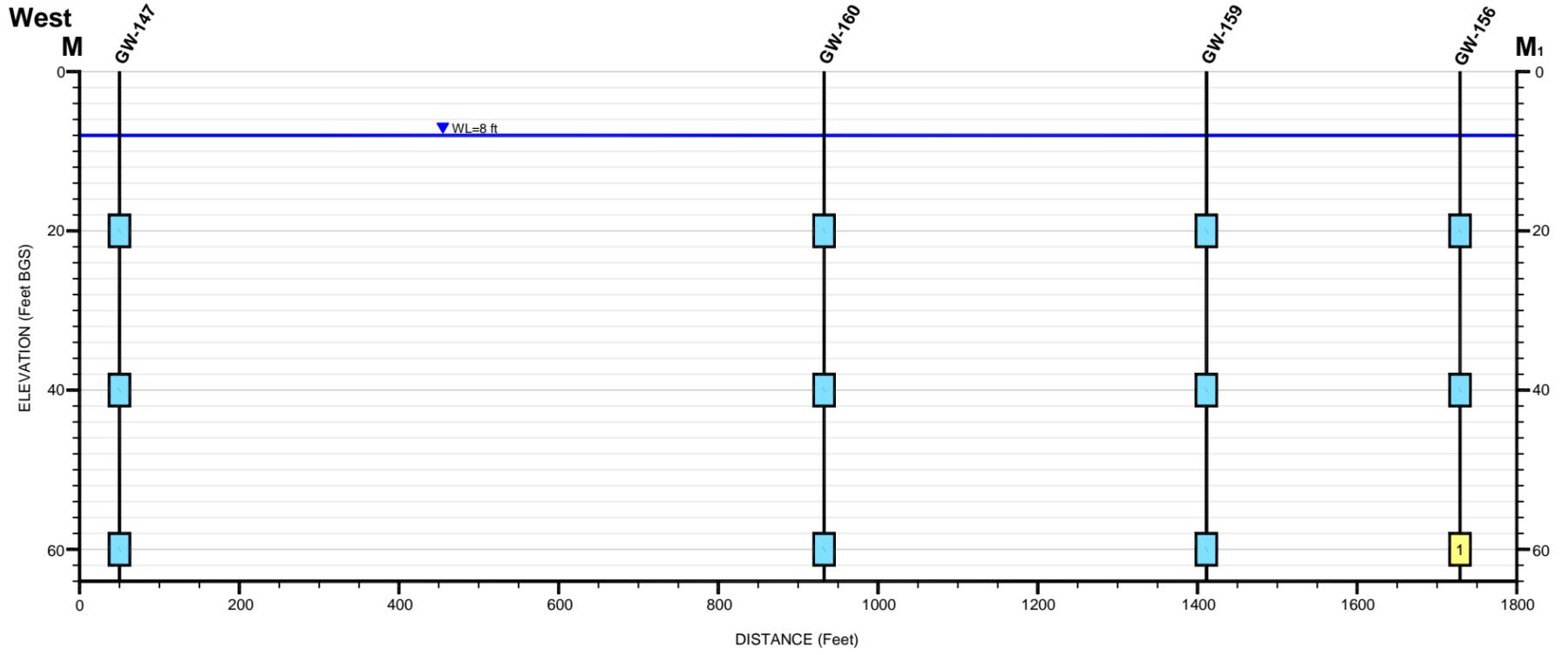


THE FORRESTER GROUP
INSIGHTFUL ENVIRONMENTAL SOLUTIONS™

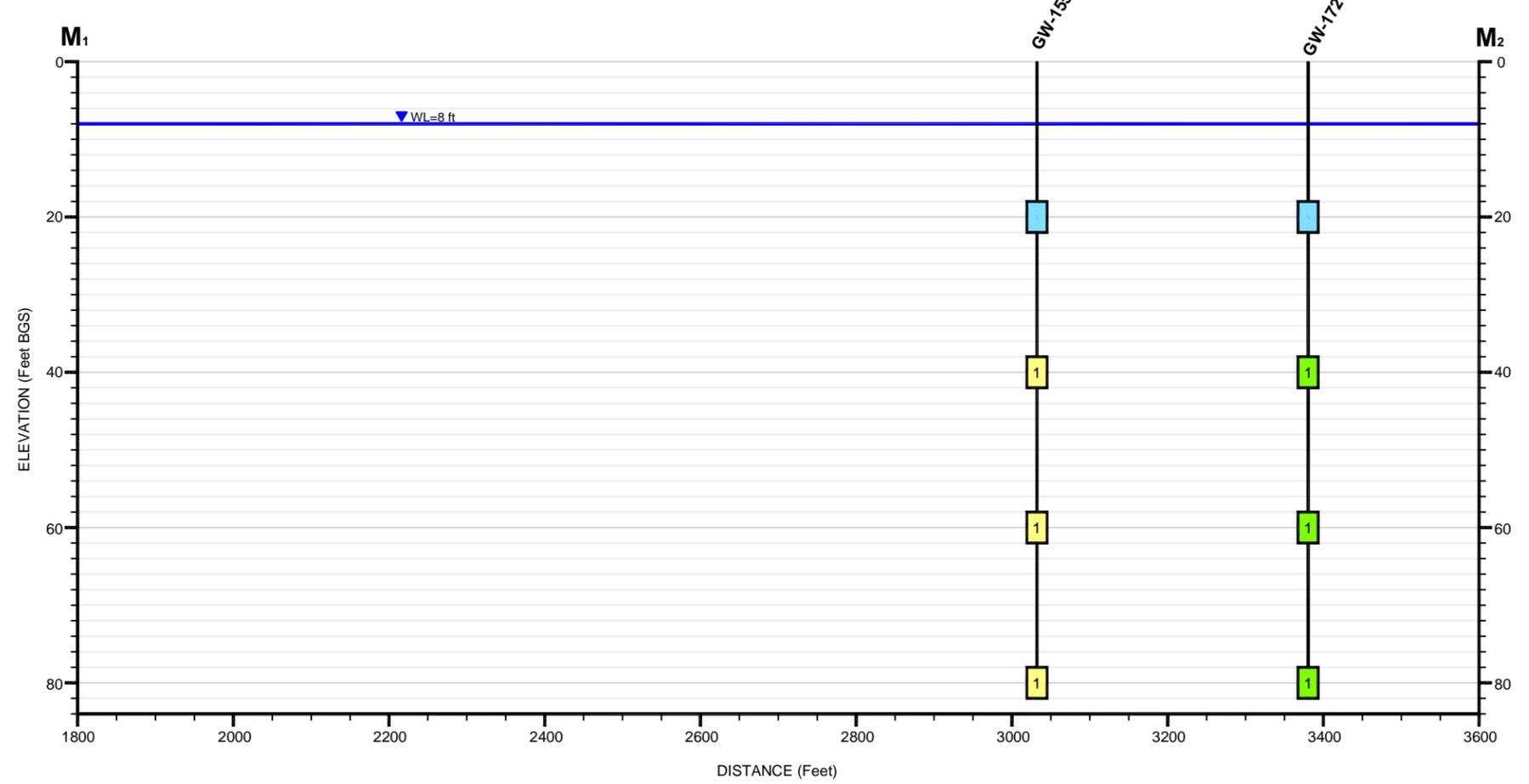
TITLE:

FIGURE 12
DPT GW CROSS SECTION (L-L')
NEBRASKA SOLVENT COMPANY
1200 HIGHWAY 30 EAST
GRAND ISLAND, NEBRASKA

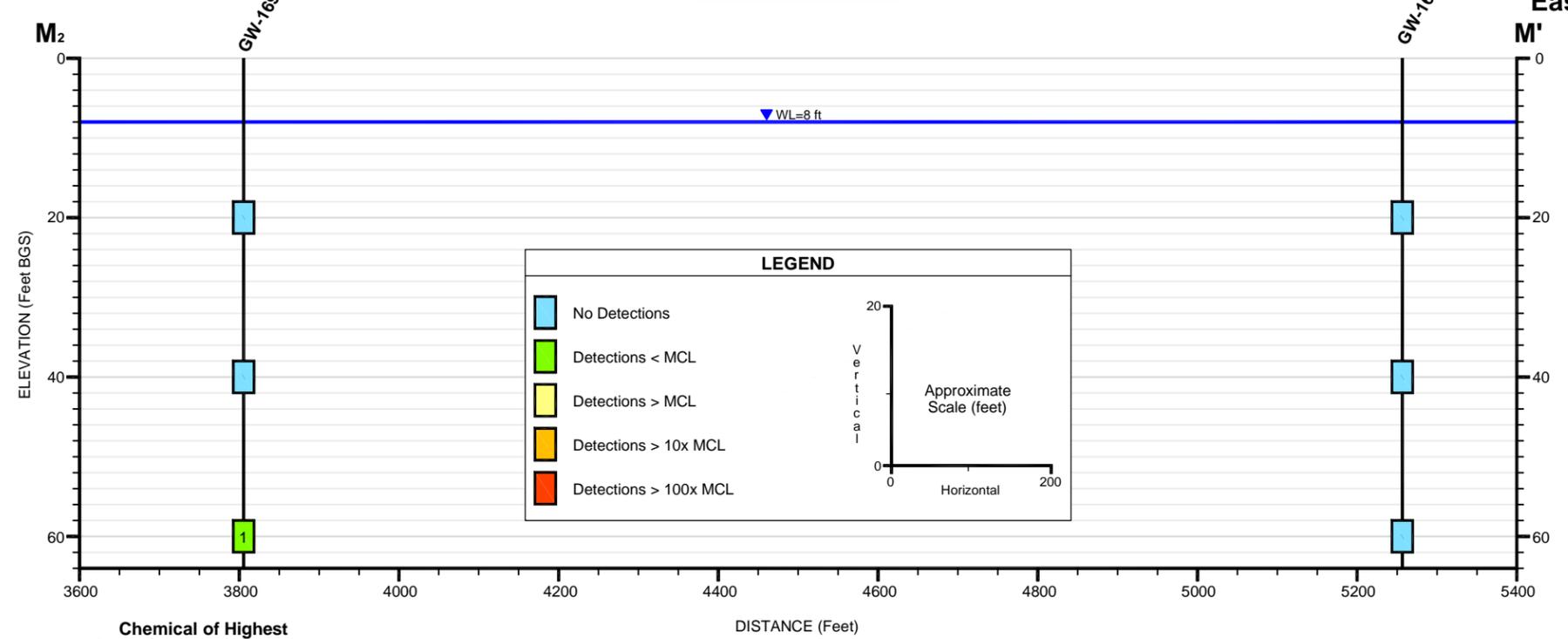
SECTION M - M₁



SECTION M₁ - M₂



SECTION M₂ - M'



Chemical of Highest Detection Relative to RGs

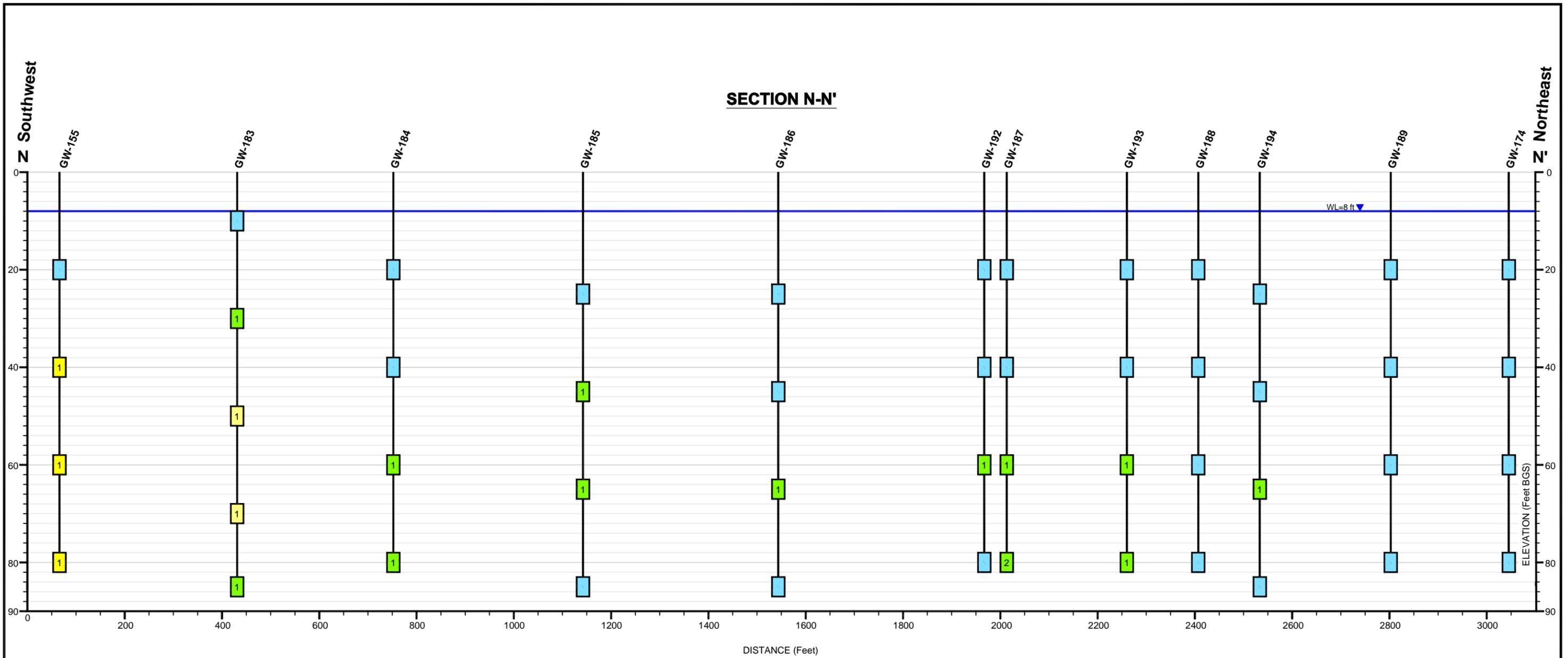
1 PCE

- Notes:
- 1.) All depths are relative to ground surface.
 - 2.) Color coding based on any single compound with highest detection relative to RGs.
 - 3) Samples from Sections M-M₁ and M₂-M' were all taken to a depth of eighty feet and had No Detections.



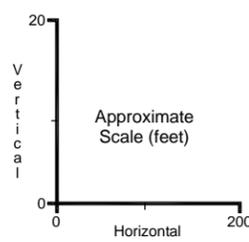
TITLE:

FIGURE 13
 DPT GW CROSS SECTION (M-M')
 NEBRASKA SOLVENT COMPANY
 1200 HIGHWAY 30 EAST
 GRAND ISLAND, NEBRASKA



- LEGEND**
- No Detections
 - Detections < MCL
 - Detections > MCL
 - Detections > 10x MCL
 - Detections > 100x MCL

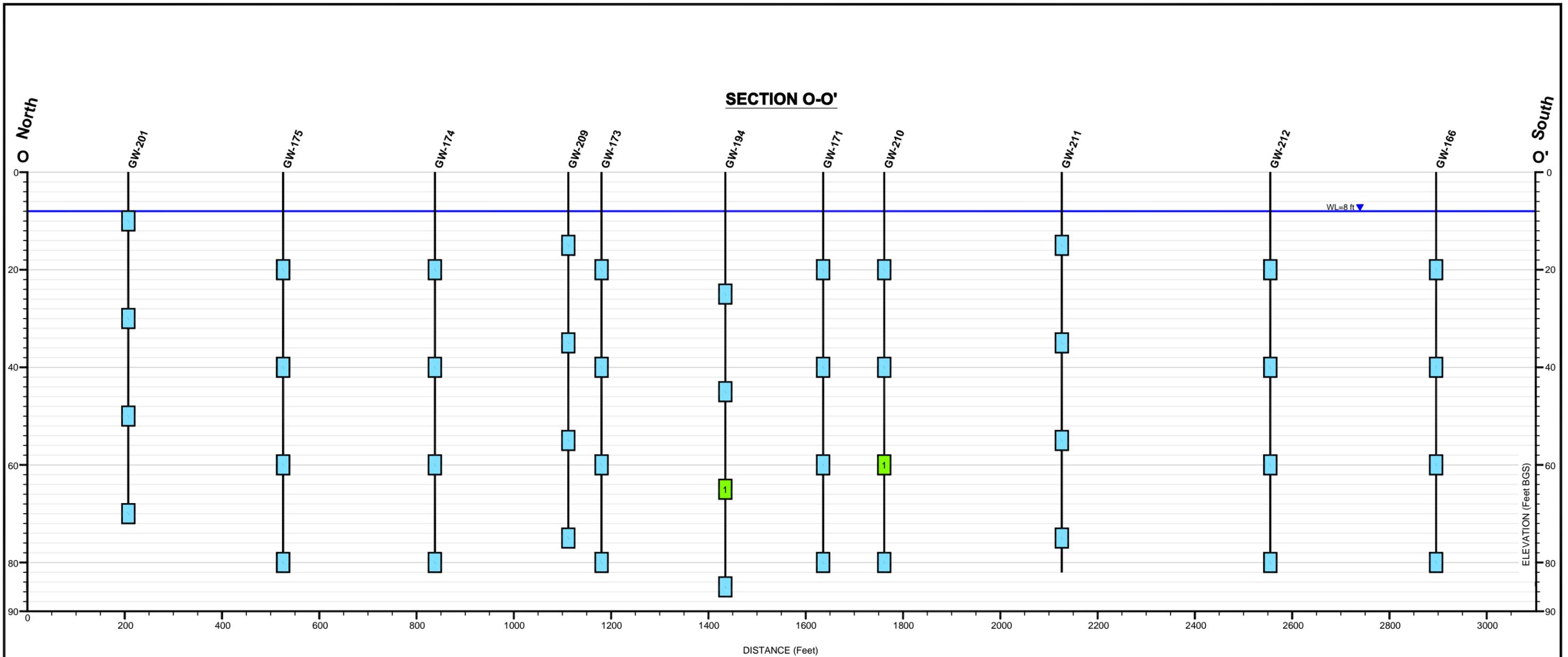
- Chemical of Highest Detection Relative to RGs**
- 1 PCE
 - 2 DCA



Notes:
 1.) All depths are relative to ground surface.
 2.) Color coding based on any single compound with highest detection relative to RGs.



TITLE: **FIGURE 14**
 DPT GW CROSS SECTION (N-N')
 NEBRASKA SOLVENT COMPANY
 1200 HIGHWAY 30 EAST
 GRAND ISLAND, NEBRASKA

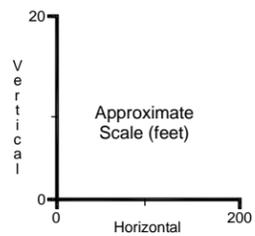


LEGEND

- No Detections
- Detections < MCL
- Detections > MCL
- Detections > 10x MCL
- Detections > 100x MCL

Chemical of Highest Detection Relative to RGs

1 PCE

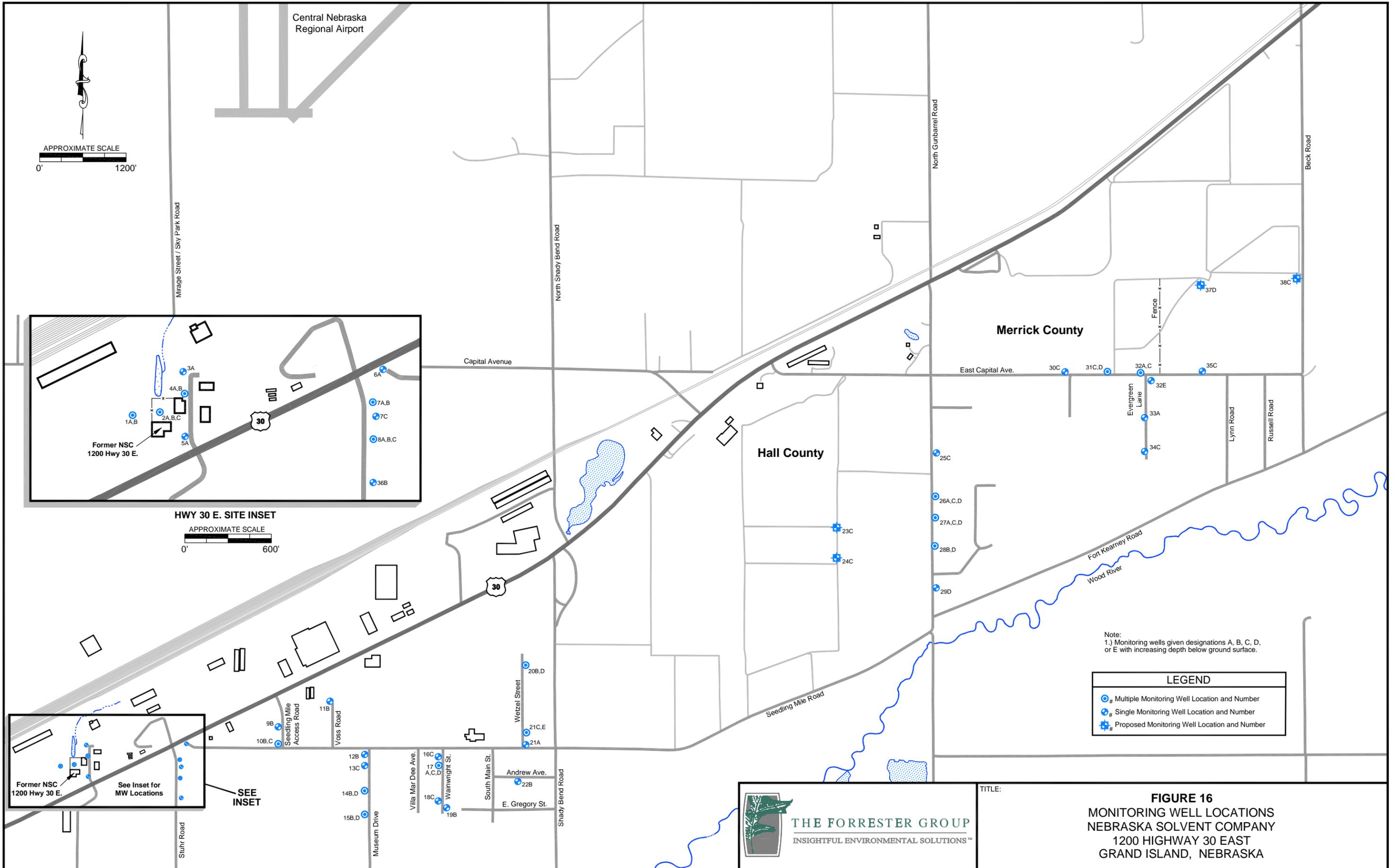


- Notes:
- 1.) All depths are relative to ground surface.
 - 2.) Color coding based on any single compound with highest detection relative to RGs.



TITLE:

FIGURE 15
 DPT GW CROSS SECTION (O-O')
 NEBRASKA SOLVENT COMPANY
 1200 HIGHWAY 30 EAST
 GRAND ISLAND, NEBRASKA



APPROXIMATE SCALE
0' 1200'

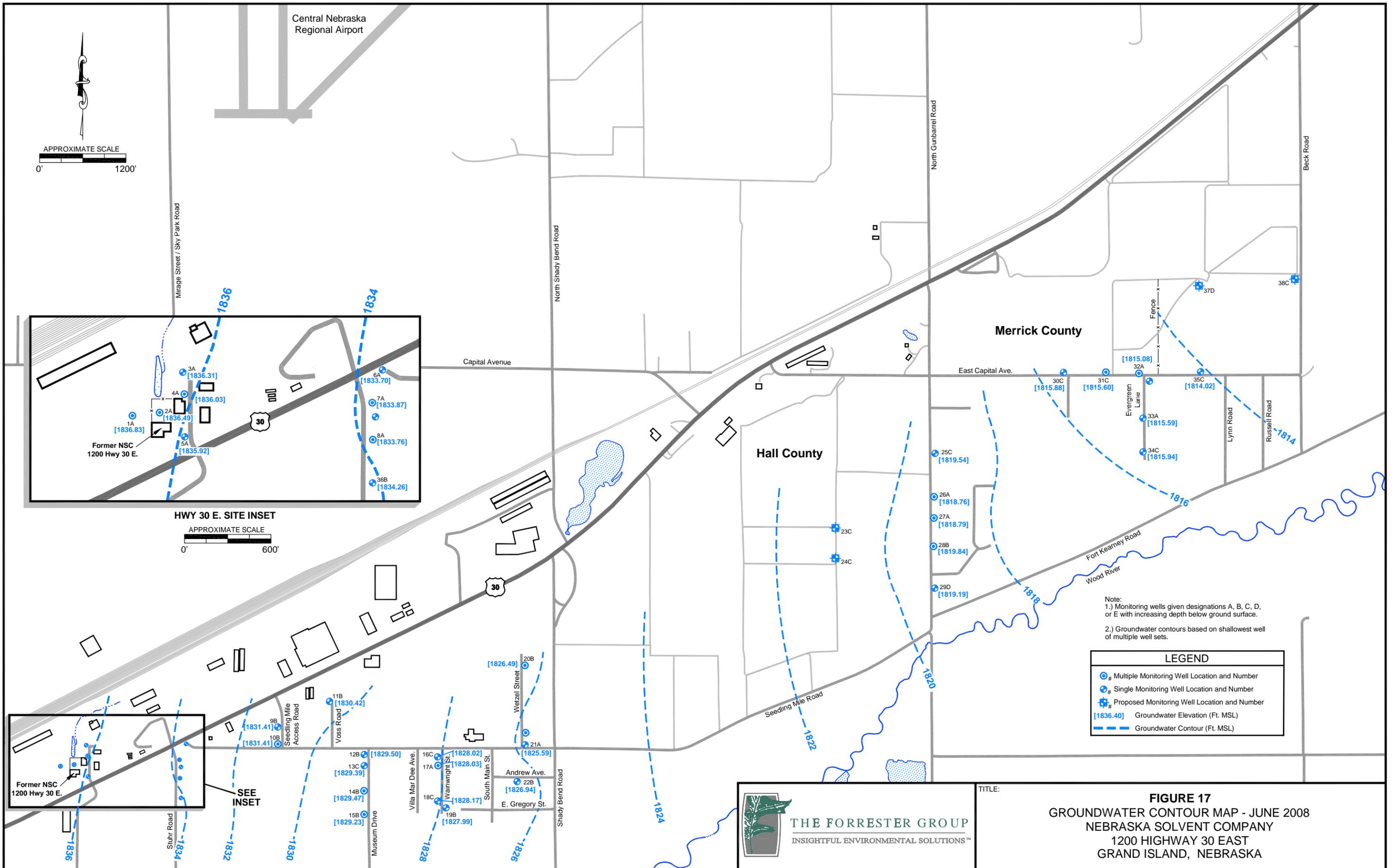
HWY 30 E. SITE INSET
APPROXIMATE SCALE
0' 600'

Note:
1.) Monitoring wells given designations A, B, C, D,
or E with increasing depth below ground surface.

LEGEND	
	Multiple Monitoring Well Location and Number
	Single Monitoring Well Location and Number
	Proposed Monitoring Well Location and Number



TITLE:
FIGURE 16
MONITORING WELL LOCATIONS
NEBRASKA SOLVENT COMPANY
1200 HIGHWAY 30 EAST
GRAND ISLAND, NEBRASKA



APPROXIMATE SCALE
0' 1200'

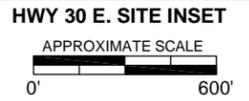
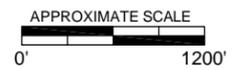
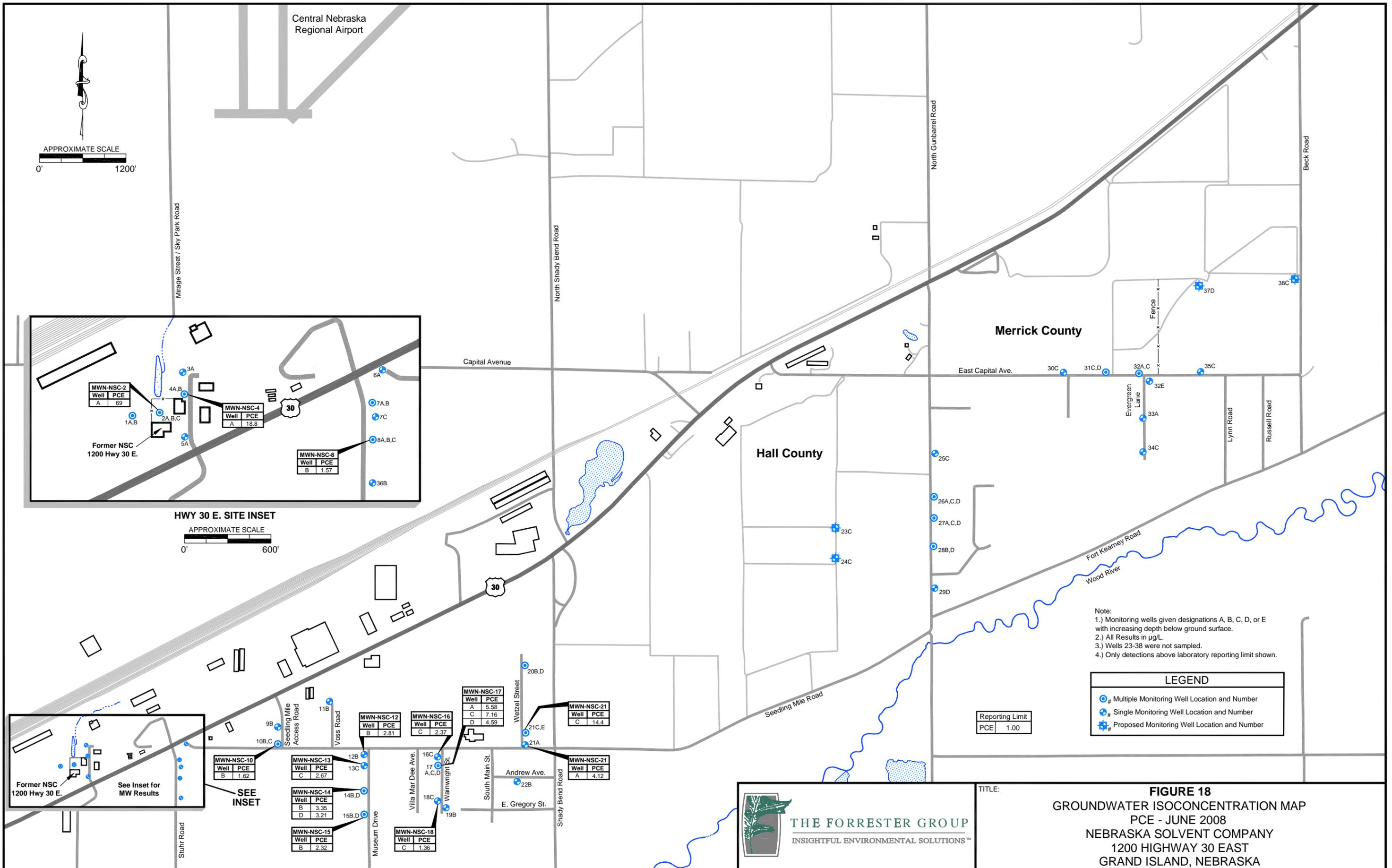
HWY 30 E. SITE INSET
APPROXIMATE SCALE
0' 600'

Note:
1.) Monitoring wells given designations A, B, C, D, or E with increasing depth below ground surface.
2.) Groundwater contours based on shallowest well of multiple well sets.

LEGEND	
	Multiple Monitoring Well Location and Number
	Single Monitoring Well Location and Number
	Proposed Monitoring Well Location and Number
[1836.40]	Groundwater Elevation (Ft. MSL)
- - -	Groundwater Contour (Ft. MSL)



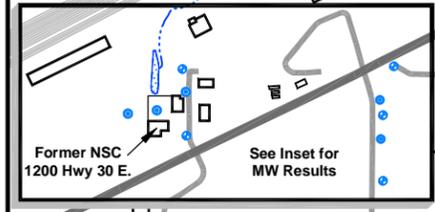
TITLE:
FIGURE 17
GROUNDWATER CONTOUR MAP - JUNE 2008
NEBRASKA SOLVENT COMPANY
1200 HIGHWAY 30 EAST
GRAND ISLAND, NEBRASKA



- Note:
- 1.) Monitoring wells given designations A, B, C, D, or E with increasing depth below ground surface.
 - 2.) All Results in µg/L.
 - 3.) Wells 23-38 were not sampled.
 - 4.) Only detections above laboratory reporting limit shown.

LEGEND	
	Multiple Monitoring Well Location and Number
	Single Monitoring Well Location and Number
	Proposed Monitoring Well Location and Number

Reporting Limit	
PCE	1.00



Well	PCE
MWN-NSC-10	1.62
B	

Well	PCE
MWN-NSC-13	2.67
C	

Well	PCE
MWN-NSC-14	3.35
B	
D	3.21

Well	PCE
MWN-NSC-15	2.32
B	

Well	PCE
MWN-NSC-12	2.81
B	

Well	PCE
MWN-NSC-16	2.37
C	

Well	PCE
MWN-NSC-17	5.58
A	
C	7.16
D	4.59

Well	PCE
MWN-NSC-21	14.4
C	

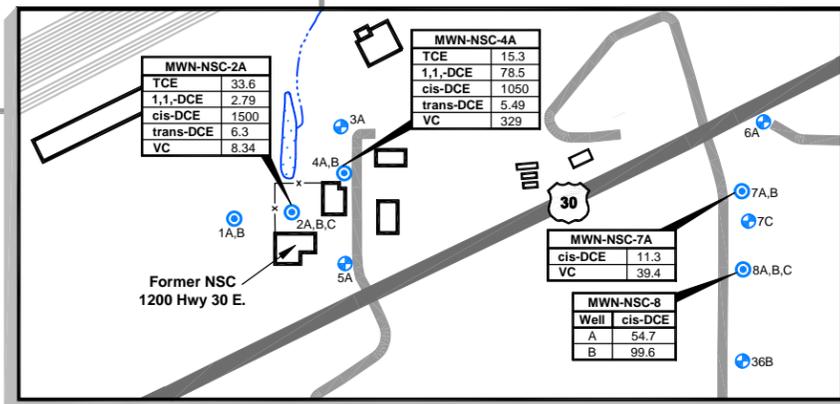
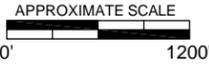
Well	PCE
MWN-NSC-21	4.12
A	

Well	PCE
MWN-NSC-18	1.36
C	

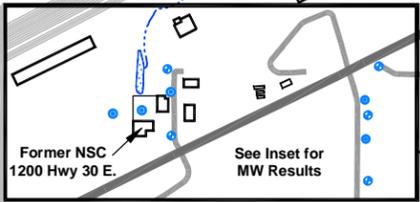


TITLE: **FIGURE 18**
GROUNDWATER ISOCONCENTRATION MAP
PCE - JUNE 2008
NEBRASKA SOLVENT COMPANY
1200 HIGHWAY 30 EAST
GRAND ISLAND, NEBRASKA

Central Nebraska
Regional Airport



HWY 30 E. SITE INSET
APPROXIMATE SCALE
0' 600'



SEE INSET

See Inset for MW Results

NSC-MWN-10	Well	cis-DCE
	B	2.56

NSC-MWN-13	Well	cis-DCE
	C	3.84

MWN-NSC-14	Well	cis-DCE
	B	13.6
	D	2.91

NSC-MWN-15	Well	cis-DCE
	B	17.1

NSC-MWN-12	Well	cis-DCE
	B	103

NSC-MWN-16	Well	cis-DCE
	C	1.26

MWN-NSC-17	Well	cis-DCE
	A	114
	C	128
	D	3.13

NSC-MWN-18	Well	cis-DCE
	C	2.23

NSC-MWN-19	Well	cis-DCE
	B	2.36

NSC-MWN-21	Well	cis-DCE
	C	97.9

NSC-MWN-21	Well	cis-DCE
	A	35.2

NSC-MWN-22	Well	cis-DCE
	B	2.36

Merrick County

Hall County

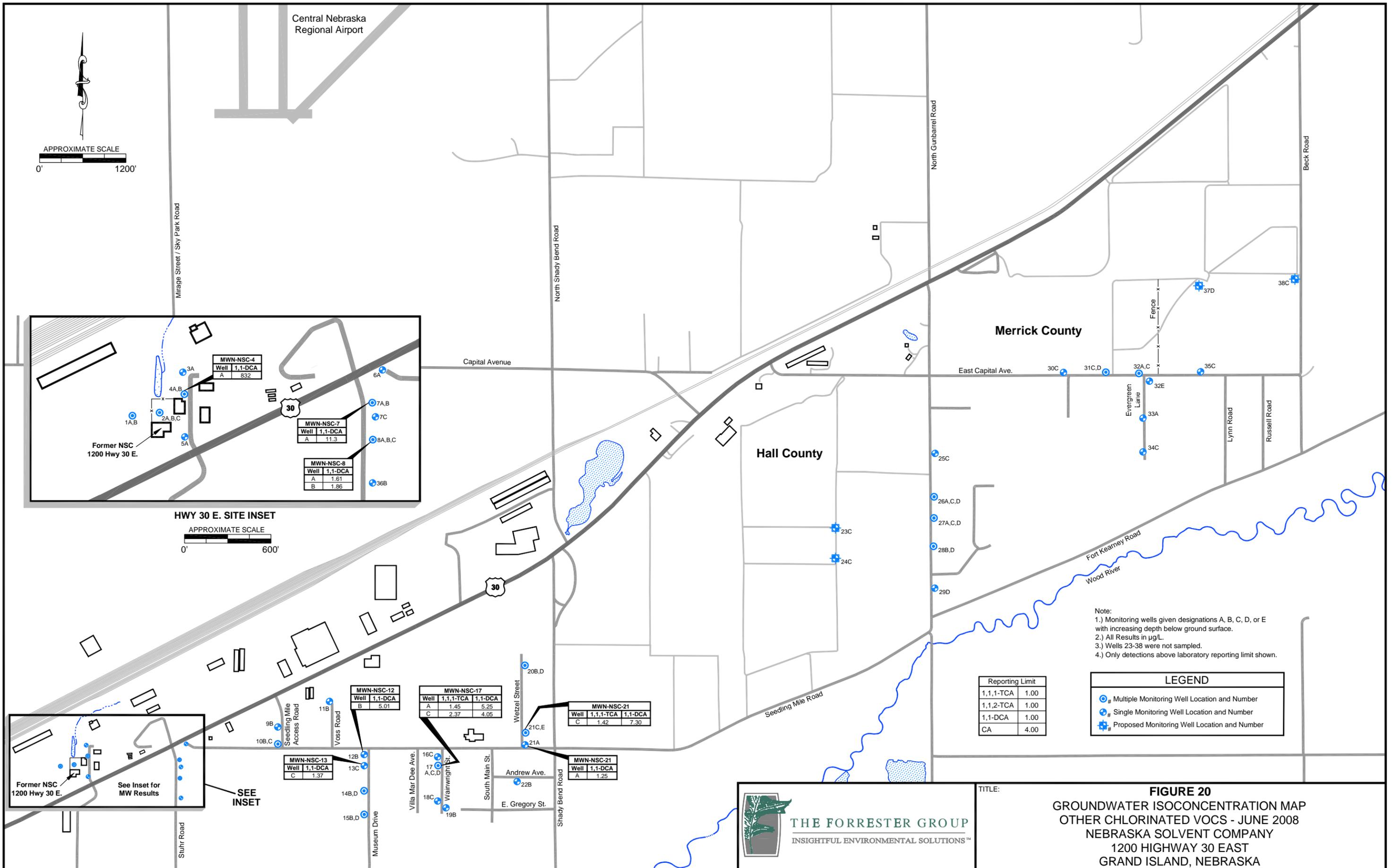
Reporting Limit	
TCE	1.00
1,1,-DCE	2.00
cis-DCE	1.00
trans-DCE	1.00
VC	1.00

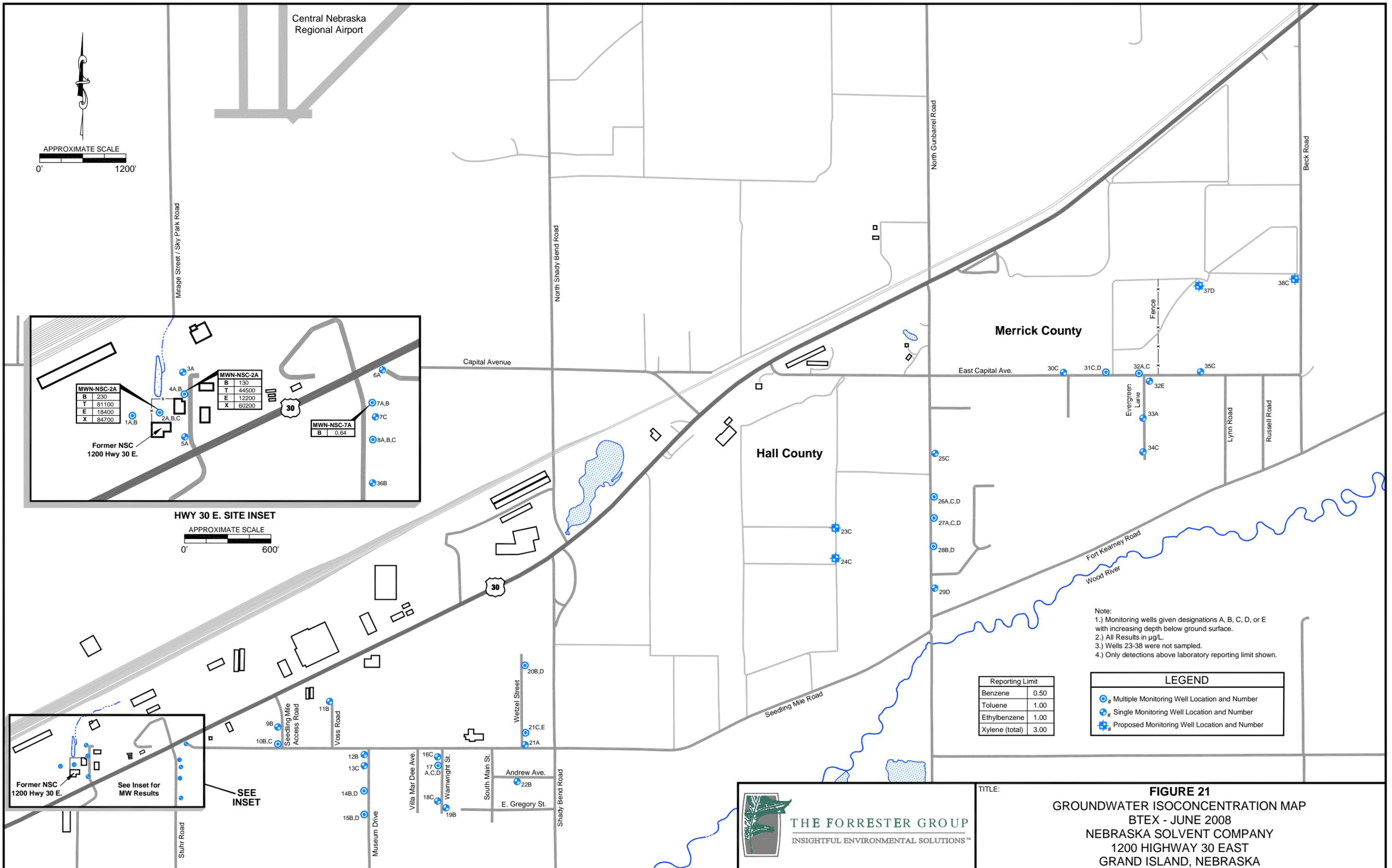
- Note:
- Monitoring wells given designations A, B, C, D, or E with increasing depth below ground surface.
 - All Results in µg/L.
 - Wells 23-38 were not sampled.
 - Only detections above laboratory reporting limit shown.

LEGEND	
⊙#	Multiple Monitoring Well Location and Number
⊙	Single Monitoring Well Location and Number
⊕#	Proposed Monitoring Well Location and Number



TITLE: **FIGURE 19**
GROUNDWATER ISOCONCENTRATION MAP
TCE, DCE, & VC - JUNE 2008
NEBRASKA SOLVENT COMPANY
1200 HIGHWAY 30 EAST
GRAND ISLAND, NEBRASKA





Note:
 1.) Monitoring wells given designations A, B, C, D, or E with increasing depth below ground surface.
 2.) All Results in µg/L.
 3.) Wells 23-38 were not sampled.
 4.) Only detections above laboratory reporting limit shown.

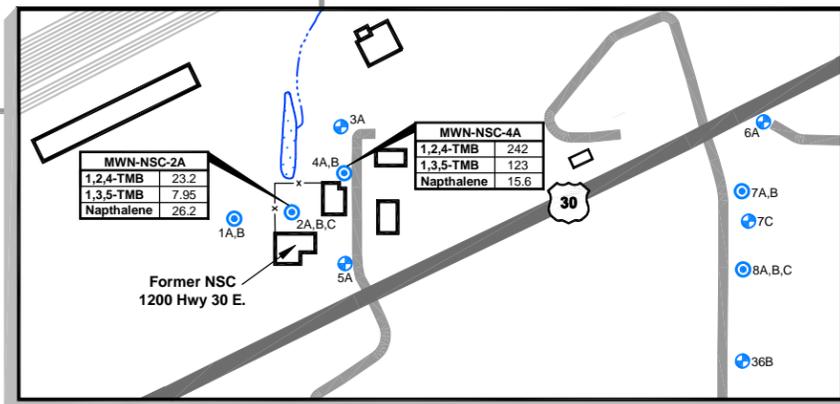
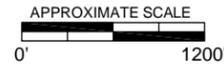
Reporting Limit	
Benzene	0.50
Toluene	1.00
Ethylbenzene	1.00
Xylene (total)	3.00

LEGEND	
	Multiple Monitoring Well Location and Number
	Single Monitoring Well Location and Number
	Proposed Monitoring Well Location and Number

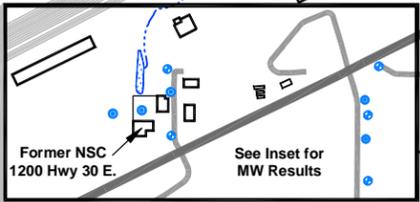


TITLE: **FIGURE 21**
 GROUNDWATER ISOCONCENTRATION MAP
 BTEX - JUNE 2008
 NEBRASKA SOLVENT COMPANY
 1200 HIGHWAY 30 EAST
 GRAND ISLAND, NEBRASKA

Central Nebraska
Regional Airport



HWY 30 E. SITE INSET
APPROXIMATE SCALE
0' 600'



SEE
INSET

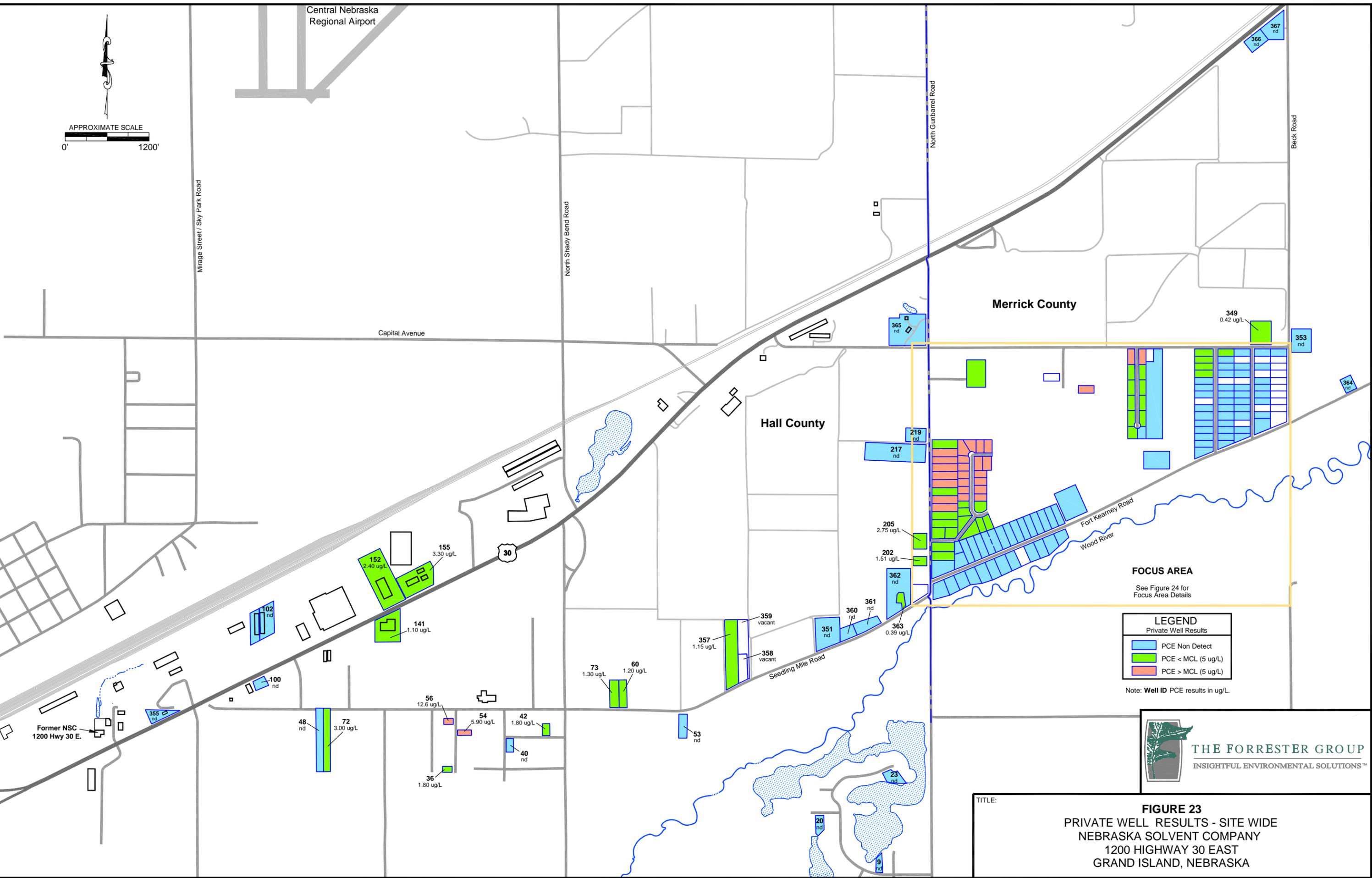
Reporting Limit	
1,2,4-TMB	0.50
1,3,5-TMB	1.00
Napthalene	5.00

- Note:
- Monitoring wells given designations A, B, C, D, or E with increasing depth below ground surface.
 - All Results in µg/L.
 - Wells 23-38 were not sampled.
 - Only detections above laboratory reporting limit shown.

LEGEND	
	Multiple Monitoring Well Location and Number
	Single Monitoring Well Location and Number
	Proposed Monitoring Well Location and Number



TITLE: **FIGURE 22**
GROUNDWATER ISOCONCENTRATION MAP
TMB & NAPHTHALENE - JUNE 2008
NEBRASKA SOLVENT COMPANY
1200 HIGHWAY 30 EAST
GRAND ISLAND, NEBRASKA



FOCUS AREA
See Figure 24 for Focus Area Details

LEGEND
Private Well Results

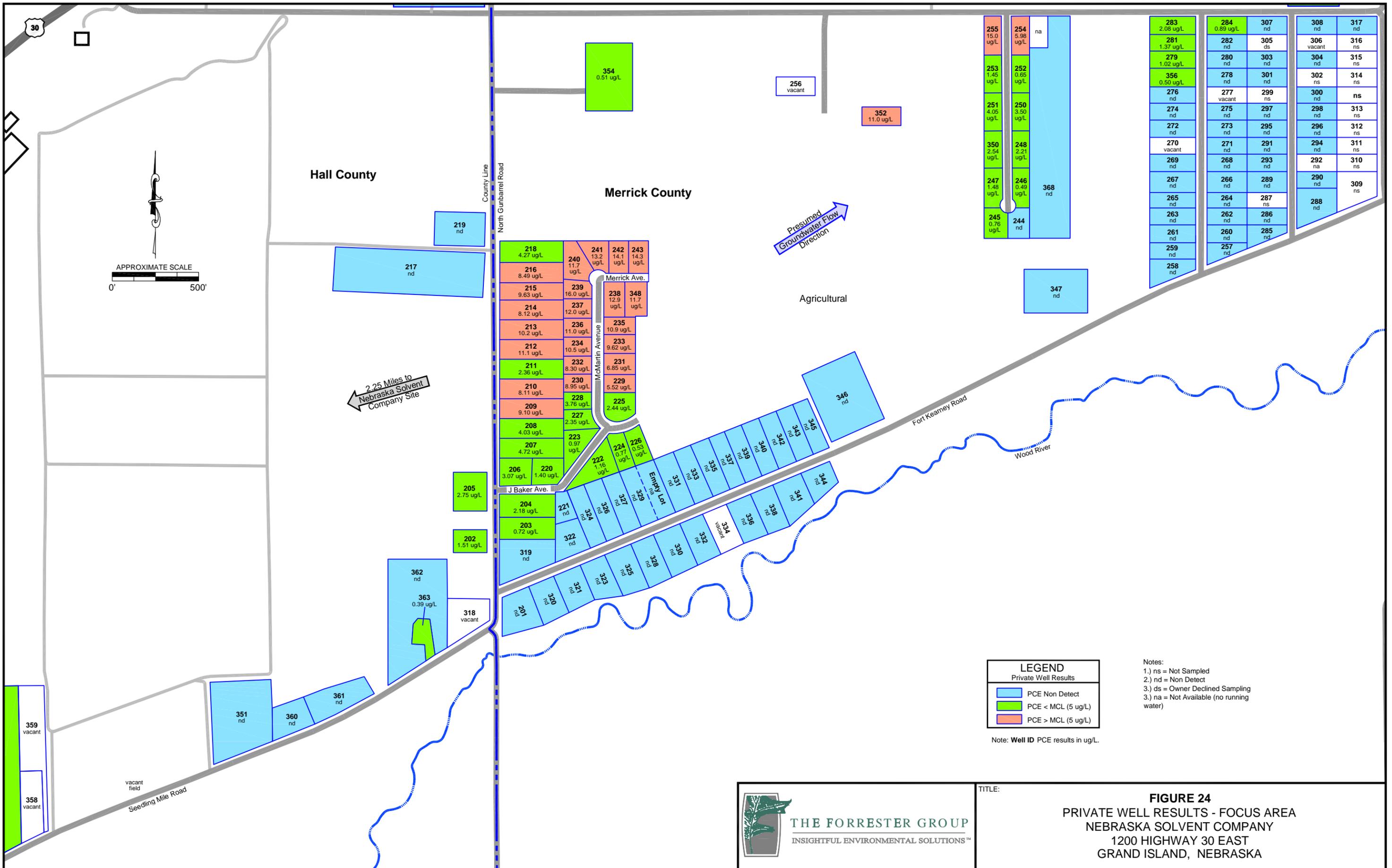
- PCE Non Detect
- PCE < MCL (5 ug/L)
- PCE > MCL (5 ug/L)

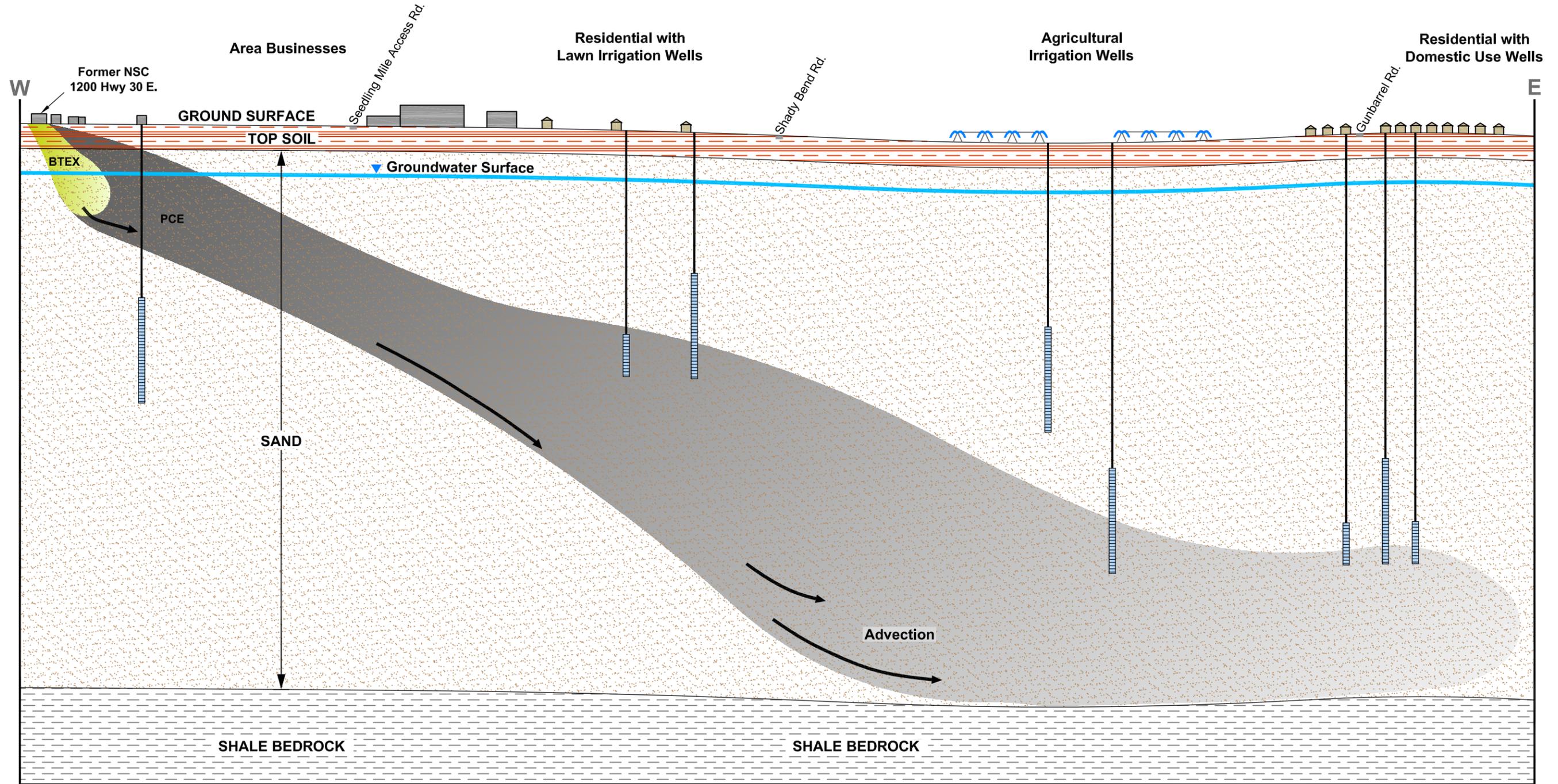
Note: Well ID PCE results in ug/L.



TITLE:

FIGURE 23
PRIVATE WELL RESULTS - SITE WIDE
NEBRASKA SOLVENT COMPANY
1200 HIGHWAY 30 EAST
GRAND ISLAND, NEBRASKA





Not to Scale



TITLE:

FIGURE 25
SITE CONCEPTUAL MODEL
NEBRASKA SOLVENT COMPANY
1200 HIGHWAY 30 EAST
GRAND ISLAND, NEBRASKA