FINAL
2012 GROUNDWATER MODEL UPDATE

OPERABLE UNIT No. 2 (GROUNDWATER)

Former Nebraska Ordnance Plant
Mead, Nebraska

Prepared for

United States Army Corps of Engineers
Kansas City District

October 2013

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Former Nebraska Ordnance Plant
Mead, Nebraska

October 2013

I hereby certify that the enclosed *2012 Groundwater Model Update, Operable Unit No. 2 (Groundwater)* at the former Nebraska Ordnance Plant near Mead, Nebraska, shown and marked in this submittal, is in compliance with the contract specifications and is submitted for government approval.

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LIST OF ACRONYMS AND ABBREVIATIONS

µg/L	micrograms per liter
AMA	Atlas Missile Area
ARDC	Agricultural Research and Development Center
ART	artesian
AWDN	Automated Weather Data Network
BAZE	Biologically Active Zone Enhancement
BMcD	Burns & McDonnell
bgs	below ground surface
CAI	Chatman & Associates, Inc.
CALMIT	Center for Advanced Land Management Information Technologies
CE	Containment Evaluation
CENWK	Northwestern Division, Kansas City District
cfs	cubic feet per second
CSD	Conservation and Survey Division, University of Nebraska - Lincoln
DCE	dichloroethene
DNAPL	dense non-aqueous phase liquid
DNX	hexahydro-1,3-dinitroso-5-nitro-1,3,5-triazine
EPA	United States Environmental Protection Agency
ET	evapotranspiration
EW	extraction well
FEW	focused extraction well
f_{oc}	fraction of total organic carbon
ft	feet
ft/mi	feet per mile
GCW	groundwater circulation well
GMP	Groundwater Monitoring Program
GMPOI	Groundwater Monitoring Program Optimization Investigation
gpm	gallons per minute
GTP	groundwater treatment plant
GWM05	2005 Groundwater Model
GWM06	2006 Groundwater Model
GWM08	2008 Groundwater Model
GWM10	2010 Groundwater Model
GWM12	2012 Groundwater Model
HDR	HDR Engineering, Inc.
HEM	Helicopter Electromagnetic and Magnetic
HMOC	hybrid method of characteristics
HMX	1,3,5,7-tetranitrol-1,3,5,7-tetrazine
HPRCC	High Plains Regional Climate Center
K	hydraulic conductivity
K_d	soil-water distribution coefficient
K_z	vertical hydraulic conductivity
k_{oc}	organic carbon partition coefficient

LIST OF ACRONYMS AND ABBREVIATIONS (continued)

L/kg	liters per kilogram
LL	Load Line
LPNNRD	Lower Platte North Natural Resource District
LWS	Lincoln Water System
mg/kg	milligrams per kilogram
MGD	million gallons per day
MNX	hexahydro-1-nitroso-3,5-dinitro-1,3,5-triazine
M.U.D.	Omaha Metropolitan Utilities District
MW	monitoring well
NDNR	Nebraska Department of Natural Resources
NOP	Nebraska Ordnance Plant
NWS	National Weather Service
PET	potential evapotranspiration
RDGM I	Remedial Design Groundwater Model, Version I
RDGM II	Remedial Design Groundwater Model, Version II
RDGM III	Remedial Design Groundwater Model, Version III
RDGM IV	Remedial Design Groundwater Model, Version IV
RDX	hexahydro-1,3,5-trinitro-1,3,5-triazine
S	storativity
Site	former Nebraska Ordnance Plant
T	transmissivity
TCE	trichloroethene
TH	test hole
TNT	2,4,6-trinitrotoluene
TNX	hexahydro-1,3,5-trinitroso-1,3,5-triazine
TOC	total organic carbon
URS	URS Group, Inc.
USACE	United States Army Corps of Engineers
USGS	United States Geological Survey
WCC	Woodward-Clyde Consultants, Inc.

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1.0 INTRODUCTION

This document presents the 2012 Groundwater Model Update (GWM12), prepared as a part of Operable Unit 2 activities for the former Nebraska Ordnance Plant (NOP) near Mead, Nebraska. Figure 1-1 shows the general location of the former NOP (Site) and Figure 1-2 is a site map.

GWM12 is an updated version of the 2010 Groundwater Model (GWM10) (ECC and Burns & McDonnell [BMcD], 2011a) and incorporates new data collected since GWM10. The conceptual model for GWM12 was refined based on the new information collected since the GWM10.

Additional data and refinements to the GWM12 include:

- Updated plume extents for hexahydro-1,3,5-trinitro-1,3,5- triazine (RDX) and trichloroethene (TCE) at Load Line (LL) 1, LL2, LL3 , LL4, and the Atlas Missile Area (AMA), based on direct-push data collected during the Groundwater Monitoring Program Optimization Investigation (GMPOI) in 2011 (ECC, 2012a) and data collected during the Site-wide Groundwater Monitoring Program (GMP) (ECC, 2012b and 2013a).
- Refined hydraulic conductivity distribution based on data collected from pumping tests at extraction well (EW) 1R; aquifer testing at test hole (TH) TH-EW-17; and slug tests in new and existing wells conducted during the Monitoring Well Network Optimization, Phase II (ECC, 2013b).
- Refined bedrock surface elevations based on stratigraphic data from monitoring wells and bedrock borings installed in 2012.
- Site extraction system operational changes.
- Refined recharge values based on varied precipitation, drought conditions and observed water levels in Site wells in 2011 and 2012.
- Additional model refinements based on boring logs and preliminary results from the Helicopter Electromagnetic and Magnetic (HEM) Geophysical Survey (ECC and BMcD, 2013a).
- Updated water level measurements from March 2011, August 2011, October 2011, March 2012, and August 2012 that were coordinated by the Lower Platte North Natural Resources District (LPNNRD) with cooperation from the Lincoln Water System (LWS); the Omaha Metropolitan Utilities District (M.U.D.); the United States Army Corps of Engineers (USACE) Northwestern Division, Kansas City District (CENWK); and the United States Geological Survey (USGS).

1.1 Purpose and Objectives

The purpose of this report is to provide documentation of major changes to the Site regional groundwater model that were implemented since the GWM10. The objective of GWM12 is to evaluate and support containment and focused extraction of contaminated groundwater. Model development is an iterative process that utilizes geologic, hydraulic, and chemical data into a dynamic system that is governed by groundwater flow and fate and transport principles. The development of the regional model enables continuous improvement in understanding Site hydrogeologic conditions and plume fate and transport behavior. The numerical model itself can be used as an effective tool to assess containment and remedial alternatives.

GWM12 is the latest in a succession of groundwater models (Section 1.2) that have been developed and used as an effective tool to:

- Assess regional-scale groundwater flow patterns;
- Monitor general plume trajectory;
- Evaluate plume containment design and containment performance (including the impacts of groundwater extraction stress on the performance of neighboring plume extraction wells and focused extraction wells);
- Support evaluation of pilot scale studies;
- Optimize groundwater extraction system and support evaluation of additional extraction wells;
- Assess transient impacts of local and regional irrigation and municipal pumping on the groundwater flow regime and containment compliance; and
- Support future Containment Evaluations (CE).

1.2 Summary of Previous Models

A site-specific groundwater model was developed to assist in the design of the Operable Unit 2 containment system. The current model is the culmination of groundwater modeling that started with the Removal Action Groundwater Modeling (Woodward-Clyde Consultants, Inc. [WCC], 1994) and the Conceptual Groundwater Model (WCC, 1996a). The groundwater modeling efforts to date have resulted in the following model versions and reports:

- Remedial Design Groundwater Model (RDGM I) (WCC, 1998);
- Remedial Design Groundwater Model II (RDGM II) (WCC, 1999);
- Remedial Design Groundwater Model III (RDGM III) (URS Group, Inc. [URS], 2002);
- Remedial Design Groundwater Model IV (RDGM IV) (URS, 2004);
- 2005 Groundwater Model (GWM05) Updates to RDGM IV described in the Load Line 1 Containment System Remedial Design (URS, 2005);
- 2006 Groundwater Model (GWM06) Groundwater Modeling Report (URS, 2007);
- 2008 Groundwater Model (GWM08) Update (URS, 2009a); and
- GWM10 Update (ECC and B&McD, 2011a)

1.2.1 Remedial Design Groundwater Models I, II, and III

The primary purpose of the RDGM I and II modeling activities was to provide a basis of design for the hydraulic containment system. The containment system was designed to hydraulically contain the area of attainment boundary as defined on Figure 3 in the Record of Decision (WCC, 1996b).

The total pumping rate for the initial RDGM I containment system design was 7,680 gallons per minute (gpm), 5,000 gpm of which would be generated by focused extraction wells in higher concentration areas. The revisions incorporated in RDGM II were a response to public perception that the RDGM I design would create potential water supply problems by increasing drawdowns in private wells. The RDGM II design targeted an extraction flow rate less than 4,000 gpm by limiting the extraction wells to the LL1 RDX plume and the AMA/TCE plume, while keeping the total pumping rate of the hydraulic containment wells similar to the RDGM I

design rate. The RDGM II design included alternatives for focused extraction wells (total pumping rate of 800 gpm), or the use of groundwater circulation wells instead of extraction wells in areas with higher concentrations.

RDGM III (URS, 2002) used the same model grid as RDGM II; however, the bedrock surface was modified using new pilot-hole data. The hydraulic conductivity distribution was modified using data from tests of the newly installed extraction wells. The initial total pumping rate at start-up for the groundwater extraction and treatment system was 2,610 gpm (not including extraction well [EW]-11).

1.2.2 Remedial Design Groundwater Model IV

In 2003-2004, significant revisions were incorporated in RDGM IV and included:

- Expansion of the model domain to nearby physical boundaries of the aquifer (e.g., the Platte River, Silver Creek, and the loess-mantled till uplands).
- Refinement of the model grid dimensions to place observation wells in cells separate from pumping wells.
- Re-characterization of initial contaminant concentrations near LL1 using data collected in 2004 by direct-push methods near Silver Creek.

The RDGM IV modeling simulated the first year and a half of pumping through October 2003, at which time the total pumping rate was 2,345 gpm.

1.2.3 2005 Groundwater Model Update

The groundwater model was further updated in 2005 to support the design of the LL1 treatment system including EW-12 and EW-13. The Draft Final LL1 Containment System Remedial Design (URS, 2005) documents the changes to RDGM IV that resulted in GWM05 (a separate groundwater model report was not issued), and how the model was used during the design process. GWM05 used the same model grid and surfaces as RDGM IV but incorporated the following changes:

- Inclusion of Wahoo Creek by expanding the active part of the model from Silver Creek to the southwest edge of the Todd Valley (i.e., to the loess-mantled till uplands south of Wahoo Creek).
- Adjustment of drain cell elevations in the Platte River valley to generally within 1 to 5 feet (ft) of ground surface.
- Addition of registered irrigation and municipal supply wells. This includes use of LWS wells in the history matching and future predictions, and the use of M.U.D. Platte West wells in future predictions.

1.2.4 Groundwater Model 06

The GWM06 model was an expansion and refinement of the GWM05. GWM06 was extended farther south to include all of the LWS water supply wells near Ashland, and farther east to include the east valley wall of the Platte and Elkhorn rivers. During the acquisition of data to

define the GWM06 model layers in the new areas, new data were also incorporated into the existing portions of the model previously covered by GWM05. As in the previous model revisions, the conceptual model was re-evaluated based on the new information.

Major refinements in GWM06 included:

- Expanding and updating the bedrock surface and the base of the loess.
- Converting model coordinates from North American Datum of 1927 to North American Datum of 1983.
- Incorporating additional characterization data collected by direct-push methods in the Fall 2005 and Spring 2006 (URS, 2006); as well as data collected during the 2006 Site-Wide GMP (URS, 2007).
- Replacing the regions of constant hydraulic conductivity with a more detailed hydraulic conductivity distribution created using MODAC™, an automated parameter estimation tool (Guo and Zhang, 2000).
- Detailed calibration consisting of a quasi-steady state calibration; five-year transient calibration (since the beginning of Site pumping in 2002); short-term transient calibration using December 2006 system-wide shutdown water levels; quasi-steady state verification using October 2006 regional water levels; history matching of plume migration pathways using particle tracking; and history matching of plume migration using transport modeling.
- Adjusting hydrologic parameter values to improve the model capability to accurately simulate all available Site data.

1.2.5 Groundwater Model Update 08

The GWM08 used the same grid and covered the same area as GWM06. Between GWM06 and GWM08, the LL1, LL2, and LL3 plumes were further characterized and stream-aquifer interaction data were collected near Johnson Creek and the Platte River. Incorporation of these data and the revised conceptual model necessitated an extensive update and recalibration.

Major refinements in the GWM08 included, but were not limited to, the following:

- Refining the model based on new plume characterization data,
- Revisiting the Soil-Water Distribution Coefficient (K_d) based on new Total Organic Carbon (TOC) data,
- Refining hydraulic conductivity data based on aquifer tests and slug tests,
- Revising the TCE source area simulation based on new analytical data,
- Refining the bedrock surface,
- Revising the simulation of the Johnson Creek seep and drainage tiles based on measured flow rates, and
- Conducting fate and transport modeling of a combined TCE and RDX plume.

1.2.6 Groundwater Model Update 10

The GWM10 covered the same area as GWM08. Between the GWM08 and the GWM10, the LL1, LL2, LL3, and LL4/AMA plumes were further characterized and additional hydraulic conductivity was available from aquifer tests and slug tests.

Major refinements in the GWM10 included, but were not limited, to the following:

- Refining the plume distributions based on data collected during the Aquifer Characterization (ECC, 2011a), Pre-Pilot Study Investigation (ECC and BMcD, 2011b), 2009 GMP (ECC, 2010a), and 2010 GMP (ECC, 2011c);
- Refining hydraulic conductivity data based on pumping tests, slug tests, and water levels;
- Refining the bedrock surface based on stratigraphic data from monitoring wells installed in 2010;
- Changing the extraction system;
- Refining recharge values based on varied precipitation and higher observed water levels in Site wells in 2009 and 2010;
- Refining the model grid near the extraction wells to better simulate the capture zones; and
- Revising the conceptual models of the high concentration areas at LL1 based on data collected during the Aquifer Characterization and ongoing monitoring well trends.

2.0 SITE DATA AND GROUNDWATER FLOW CONCEPTUAL MODEL

Section 2.0 presents a general description of the physiography, geology, hydrogeology, and aquifer withdrawals within the groundwater model area. A conceptual model for the site geology and hydrology is presented and forms the current basis for the development of the GWM12 numerical flow and transport model.

2.1 Physiography and Topography

The physiography of eastern Saunders County where the Site is located can be divided into three regions: flood plain, terrace plain, and uplands. Figure 2-1 shows the physiographic boundaries and ground surface elevations developed as described in the GWM08.

The flood plain primarily consists of the flood plains of the Platte River and Wahoo Creek. Elevations range from 1,050 ft (North American Vertical Datum 88) near Ashland, to 1,130 ft near Ithaca in the Wahoo Valley, and 1,120 ft near Leshara in the Platte Valley. The topography is flat, sloping 4 ft per mile (ft/mi) in the Platte Valley and 6 ft/mi in the Wahoo Valley.

The terrace plain is known as Todd Valley, and is a stream terrace abandoned when the ancestral Platte River pirated a tributary of the Elkhorn River. The terrace is generally 50 ft higher in elevation than the Wahoo Creek and Platte River flood plains. Elevations range from 1,220 ft near Colon in the northwest corner of the model area to 1,100 ft in the southeast, with a slope of approximately 9 ft/mi.

There are two areas of till uplands in the model area. One area is between the Todd Valley and the Platte Valley, and the other is southwest of Wahoo Creek. In contrast to the relatively flat Todd Valley terrace plain, the uplands are hilly with elevations ranging between 50 and 200 ft higher than the Todd Valley.

2.2 Geology

The geology of the Site consists of Cretaceous-age bedrock, Quaternary-age glacial deposits, and Quaternary-age alluvial deposits. The following subsections describe updates to the geologic model since the GWM10.

2.2.1 Bedrock

The Cretaceous Omadi Formation, approximately equivalent to and often called the Dakota Formation, underlies all but the southeastern portion of Saunders County (Souders, 1967). The formation consists of sandstone, siltstone, and shale; more than half the unit is poorly cemented sandstone. In general, the uppermost unit of the Omadi in the northwest portion of the Site is shale, and the uppermost unit in the southeast portion is sandstone. Cores of the upper portion of bedrock, however, often contain interbedded sandstone and shale.

In southeastern Saunders County, including the area of the LWS Ashland well field, the uppermost bedrock consists of Pennsylvanian limestones and shales. Additional borings advanced as part of the Monitoring Well Network Optimization, Phase II at the former NOP

indicated that the Pennsylvanian limestones and shales are overlain by 20 to 115 ft of the Omadi sandstones and shales (ECC, 2013b). Between 3 to 15 ft of shale was observed as the uppermost Pennsylvanian facies at the Site.

Figure 2-2 shows the interpreted bedrock surface. The surface was developed using data presented in Tables 2-1 and 2-2. The data in Table 2-2 is from the following sources:

- Nebraska Department of Natural Resources (NDNR) registered well database (through December 2012);
- Souders (1967);
- Piskin (1971);
- CENWK boring logs;
- *Configuration of the Base of the Principal Aquifer, 1979* (Conservation and Survey Division [CSD], University of Nebraska - Lincoln, 1996); and
- Selected direct-push locations.

The boring log data in the NDNR registered well database varies in quality. Many of the logs are drillers' logs based on cuttings rather than discrete samples and the Omadi formation is not consistently identified. The top of bedrock contour map was generated by compiling data from the posted sources, and outliers were removed by comparing the elevations to each other and a digitized contour of the statewide "Configuration of the Base of the Principal Aquifer, 1979" map (CSD, 1996). Where nearby data points conflicted, preference was given to data from borings with discrete samples (i.e., monitoring well borings, extraction well or focused extraction well pilot holes, and municipal well field test holes). Among borings sampled from cuttings, preference was given to the USGS (Souders, 1967) and Piskin (1971) over irrigation well logs. The bedrock surface was contoured using a kriging algorithm and the program Surfer® developed by Golden Software.

2.2.2 Loess and Alluvial Overbank Fines

During Wisconsinan time, the Todd Valley and the surrounding uplands were covered by the light brown and light gray mottled Peoria Loess. The loess typically ranges between 10 and 20 ft in thickness in the Todd Valley. The loess is absent in the Platte River and Wahoo Creek valleys. The silts and clays overlying the Platte River sands and gravels are alluvial overbank deposits, which are not related to the Peoria Loess. The thickness of the overbank fines typically ranges from 0 to 20 ft. Figure 2-3 represents the base of the loess in the Todd Valley and the overbank fines in the Platte Valley. The surface was contoured using a kriging algorithm and the program Surfer® developed by Golden Software. The surface was developed using data presented in Table 2-2 from the following sources:

- NDNR registered well database (through December 2012); and
- CENWK boring logs.

2.3 Hydrogeology

The hydrogeology of the Site modeled area consists of three major alluvial aquifers (Todd Valley aquifer, Platte Valley aquifer, and Wahoo Valley aquifer) and one minor aquifer (the till Uplands aquifer). All four aquifers are underlain by the Omadi Formation (as discussed above in Section 2.2.1), except where the Omadi is absent and the subcrop consists of Pennsylvanian strata near the LWS/Ashland well field. For regional modeling purposes, a sufficient vertical permeability contrast was assumed to exist between the Omadi Formation and the unconsolidated alluvial aquifers so that the Omadi Formation forms a relatively impermeable base and has negligible hydraulic communication with the overlying alluvial aquifer system, as discussed in detail in GWM08. Slug tests performed as part of the Monitoring Well Network Optimization, Phase II (ECC, 2013b) indicated the range of hydraulic conductivity values for wells in the Omadi formation was 2 to 51 feet per day (Appendix A, Table A-1).

2.3.1 Platte Valley Aquifer

The hydrostratigraphy of the Platte Valley consists of two principal layers:

1. Silt and clay overbank deposits approximately 5 to 20 ft thick (partially to fully saturated); and
2. Coarse grained sand and gravel alluvium (fully saturated).

The low permeability, saturated overbank fines act as an upper leaky confining unit over the Platte Valley aquifer, which impedes but does not prevent groundwater discharge from the aquifer to the ground surface (WCC, 1996a). The range of hydraulic conductivity values for wells in the Platte Valley was 93 to 328 ft/day (ECC, 2011a and ECC, 2013b) (Appendix A). Previous hydraulic conductivity estimates in the Platte West Well Field ranged between 450 ft/day to 600 ft/day (Chatman and Associates [CAI], 2005).

EW-1R Pumping Tests

Constant rate pumping tests and recovery tests were conducted at EW-1R at the leading edge of the LL4/AMA contaminant plume; results were reported in the *EW-1R Post Installation Technical Memorandum* (ECC, 2012c). The values for transmissivity (T), hydraulic conductivity (K), and storativity (S) were calculated using the Hantush-Jacob method for leaky confined aquifers. Transmissivity values ranged from 5,657 to 15,240 ft^2/day. Assuming a saturated aquifer thickness of 23 ft (based on borehole logs at EW-1R), hydraulic conductivity estimates ranged from 245 to 662 ft/day. The dimensionless storativity values ranged from 2.7 x 10^{-4} to 7.7 x 10^{-3}. The distance-drawdown data suggest K near EW-1R is approximately 350 to 370 ft/day. The calculated values for T, K, and S are similar to those estimated based on the 2011 pumping test (352 to 370 ft/day) and the October 2008 pumping test at EW-1 (314 to 447 ft/day) (ECC, 2012c).

2.3.2 Todd Valley Aquifer

The hydrostratigraphy of the Todd Valley consists of two principal sedimentary units:

1. The Peoria Loess, ranges from 4 to 23 ft thick at the Site, and is unsaturated.
2. The Todd Valley sands and gravels, which are partially saturated, are typically between 80 and 110 ft thick, but can be as thick as 157 ft (near LL1), and as thin as 48 ft (southwest of the former Landfill area). The former Landfill area is located approximately one mile east of LL4, south of the LPNNRD Reservoir. The water-bearing portions of the unconsolidated material in the Todd Valley are generally divided into an upper fine sand unit (12 to 77 ft thick) and a lower sand and gravel unit (17.5 to 72 ft thick).

The Todd Valley aquifer is unconfined in nearly all of the model area; however, it may be confined in the northwest corner of the model area where the groundwater elevation is higher than the estimated base of the loess. The saturated thickness of the aquifer is controlled by the eroded bedrock surface at its base and the elevation of the potentiometric surface, except where it is confined. Throughout the modeled area the saturated thickness of the aquifer ranges from approximately 30 ft in the southeast to over 100 ft near LL1 and near the Village of Mead.

Figure 2-4 depicts a generalized cross-section of subsurface materials along Country Road F (located in the southern portion of the Site).

Slug tests were conducted in wells screened in the Todd Valley aquifer as part of the Monitoring Well Network Optimization, Phase II (ECC, 2013b). The average hydraulic conductivity value of the Todd Valley aquifer was approximately 190 ft/day and ranged between 73 and 349 ft/day.

A silty clay zone was encountered in two borings south of the former Landfill area at a depth of approximately 55 to 75 ft below ground surface (bgs) (ECC, 2011a). Slug tests from monitoring well (MW)-152, MW-154 and MW-156, which are located along the eastern portion of the LL4/AMA contaminant plumes and south of the former Landfill, have an average hydraulic conductivity of 33 ft/day. The wells along the western portion of the LL4/AMA plume (MW-151, MW-153, MW-155 and MW-157) have an average hydraulic conductivity of 124 ft/day, approximately four times higher than the eastern side of the plume. This difference in the average hydraulic conductivity shows the localized variability in the Todd Valley aquifer, especially between the western and eastern sides of the LL4/AMA plumes.

2.3.3 Wahoo Valley Aquifer

The hydrostratigraphy of the Wahoo Valley consists of two principal sedimentary units:

1. Silt and clay overbank deposits typically 2 to 15 ft thick (partially to fully saturated); and
2. Sand and gravel alluvium, interlayered with silt and clay, typically 30 to 80 ft thick (fully saturated).

Where present, the low permeability, saturated overbank fines act as a leaky confining layer over the Wahoo Valley aquifer that impedes but does not prevent groundwater discharge from the aquifer to the ground surface. The Wahoo Valley aquifer is distinguished from the Todd Valley

aquifer by greater heterogeneity. As shown on cross sections by Souders (1967), the Wahoo Valley sediments are stratigraphically distinct from the Todd Valley, possibly representing finer grained Wahoo Creek and Silver Creek sediments filling the last channel of the ancestral Platte River through the Todd Valley. Boring logs in the EW-12/EW-13 area show the sediments to be more stratigraphically complex than the sediments in the Todd Valley, with interbedded fine and coarse-grained materials. Results from slug tests conducted in the Wahoo Valley during the Aquifer Characterization indicated significant heterogeneity. Hydraulic conductivity values ranged two orders of magnitude from 1 ft/day to 417 ft/day along a 4,000 ft transect. The higher values of hydraulic conductivity reported from slug tests at direct-push locations in the Wahoo Valley aquifer and within the LL1 plume are likely associated with the sand and gravel zones that have been noted in nearby boring logs (ECC, 2011a). Direct-push soil profiling and ground-based geophysics conducted during the GMPOI in October and November 2011 provided further data indicating heterogeneity of overburden materials and variation in depth to bedrock (ECC, 2012a).

TH-EW-17 Pumping Tests

As part of the EW-17 design, constant-rate and step-drawdown pumping tests were conducted at TH-EW-17, which is located at the downgradient portion of the LL1 TCE contaminant plume. The values for estimated hydraulic conductivity were calculated using several different methods (Hantush, Moench, and Neuman). Based upon a distance –drawdown analysis hydraulic conductivity was estimated at approximately 50 ft/day. Appendix A contains further information on the TH-EW-17 aquifer test.

2.3.4 Till Uplands Aquifer

The hydrostratigraphy of the Till Uplands aquifer consists of:

1. The Peoria Loess (unsaturated);
2. Till interlayered with silt and clay (partially saturated with local, perched water tables inferred by Souders (1967) from intermittent stream flow); and
3. Possible buried Quaternary sand and gravel alluvium in channels beneath the till inferred by Souders (1967) (saturated).

The transmissivities in the till uplands (CSD, 2005) are generally lower than those in the Todd Valley, despite the greater saturated thickness (CSD, 1996). Souders (1967) used the configuration of the bedrock surface and data on the ease or difficulty in obtaining water supplies to infer the presence of buried Quaternary channels beneath the till uplands. Clays, silts, and sands near the margins of Todd Valley, such as those near the Landfill in the northeastern portion of the Site, may be remnant fluvio-glacial deposits of the Early or Medial-Pleistocene.

Souders (1967) infers, based on limited data, a southeast trending channel along the Todd Valley side of the till uplands. The sediments composing this terrace have a lower transmissivity than the surrounding material, despite the greater thickness, as illustrated on the “Transmissivity of the Principal Aquifer, 2005” map (CSD, 2005).

2.3.5 Potentiometric Surface

Regional water-levels were measured in March 2011, August 2011, October 2011, March 2012, and August 2012. Water levels recorded during these monitoring events are presented in Table 2-3. Well construction details are provided in Table 2-1.

The water levels used in creating the potentiometric surface maps are from the deepest well in the unconsolidated aquifer in each monitoring well cluster, which is typically the intermediate zone well. These interpretations, based on water levels from the following sources, were contoured using a kriging algorithm and the program Surfer® developed by Golden Software:

- CENWK monitoring wells, observation wells, and piezometers;
- LPNNRD piezometers and irrigation wells (LPNNRD, 2012);
- M.U.D. piezometers (LPNNRD, 2012);
- LWS piezometers (LPNNRD, 2012); and
- USGS surface water gauging stations (USGS, 2013b).

The USGS wells in Table 2-3 were mainly used to establish regional water levels along the margins of the GWM12. Some of the USGS wells not in the LPNNRD Wann Basin network are not surveyed, and water levels are measured from ground surface. Where nearby data points conflicted, preference was given to data from surveyed wells (i.e., CENWK monitoring wells, observation wells, and piezometers).

Historically the shallow zone potentiometric surface has had essentially the same flow directions (southeast) and hydraulic gradients as the intermediate zone potentiometric surface; therefore, only the intermediate zone potentiometric surfaces were produced for this report. Groundwater flow in the Todd Valley aquifer is to the south-southeast. The depth to groundwater in the Todd Valley ranges from approximately 40 to 70 ft bgs. East of Johnson Creek, the groundwater flow direction in the Platte River alluvial aquifer is to the south, paralleling the Platte River Valley with depths to groundwater in the Platte Valley ranging up to 10 ft.

The intermediate zone potentiometric surfaces for March 2011, August 2011, March 2012, and August 2012 are presented in Figures 2-5, 2-6, 2-7, and 2-8, respectively and are similar to historical potentiometric surfaces. On average, Site-Wide monitoring well groundwater elevations measured during March 2012 were similar to the March 2011 groundwater elevations. However, the spatial trend showed an increase in groundwater elevations in the Todd Valley aquifer and a decrease in groundwater elevations in the Platte River Valley aquifer. A comparison of the August 2011 and August 2012 groundwater elevations showed an average Site-wide decrease of 1.59 ft in 2012.

2.4 Surface Water

The location of USGS, M.U.D., and CENWK surface water gauges and measurement locations for the Site are shown on Figure 2-1. Flow statistics are presented in Table 2-4. The stream staff gage elevations from March 2011 through October 2012 are presented in Table 2-5.

2.4.1 Platte River

The gradient of the Platte River is approximately 4 ft/mi between Venice and Ashland. A discussion of the flow in the Platte River was summarized in the M.U.D. Phase II Platte West Well Field/Groundwater Modeling Study (CAI, 2005). River flow statistics are presented in Table 2-4.

The lowest seven-day average flow from October 1, 2000 to September 30, 2012 was calculated for the Platte River at Leshara and Ashland, and the Elkhorn River at Waterloo. This low flow can be considered to be an estimate of groundwater baseflow, and generally reflective of the stream flow without significant surface runoff. The average monthly flow over the period was also calculated and is summarized in Table 2-6.

The Elkhorn River enters the Platte River between Leshara and Ashland. The combined flow of the Platte River at Leshara and the flow of the Elkhorn at Waterloo is less than the flow of the Platte River at Ashland. The larger flow observed at Ashland suggests there are additional inflows from surface runoff and tributary flow to both the Platte River between Leshara and Ashland and to the Elkhorn River south of Waterloo. Previous water year reports suggested that under very low flow conditions additional water is gained through surface water contributions of the minor tributaries in this reach (e.g., Otoe Creek and Upper Clear Creek). The 2012 USGS Water Data Reports from these stations are included in Appendix B.

Ninety percent of the time, the flow in the Platte River exceeds 10 times the maximum average annual pumping rate for which the M.U.D. Platte West field is permitted (approximately 52 million gallons per day [MGD]).

Figure 2-9 shows the stage at the Venice Station. A review of this data suggests that the variation in stage shows a typical winter high in February 2011 and the summer drought conditions in July through September 2012 (Summer 2012 drought conditions discussed in Section 2.5.1.1).

2.4.2 Elkhorn River

The Elkhorn River is a major tributary to the lower Platte River. Flow statistics are provided in Table 2-4. The estimated average flow (based upon the 50% exceedance frequency) was 1,240 cubic feet per second (cfs) at Waterloo.

The Waterloo Gaging Station is located in an entrenched portion of the Elkhorn River that has a flatter gradient than the Platte River. The gradient of the Elkhorn River is approximately 2 ft/mi between Waterloo and the Platte River. It is difficult to determine if the Elkhorn River is a losing or gaining stream in the reach below Waterloo; however, previous reports have suggested that it might be a gaining stream (URS, 2009a).

2.4.3 Clear Creek

Clear Creek once flowed through Yutan in the till uplands, and then through the Platte Valley to Wahoo Creek. Clear Creek is within half a mile of the Platte River north of the M.U.D. well

pumping field. At that location, a diversion channel has been cut to divert the flow into the Platte River, dividing Clear Creek into Upper Clear Creek and Lower Clear Creek. In this report, Clear Creek is used interchangeably with Lower Clear Creek.

The gradient of Clear Creek is steeper (approximately 6-7 ft/mi) between the origin of Lower Clear Creek near the Platte River and the section of Clear Creek above Johnson Creek (approximately 3 ft/mi) (GWM08). This may result in seepage from the Platte River to the aquifer that subsequently discharges to Clear Creek. Below the confluence of Clear Creek and Johnson Creek the gradient of Clear Creek was historically measured at approximately 1.3 ft/mi (ECC and BMcD, 2011a).

Base flows above the Johnson Creek confluence are typically 2 to 3 cfs, but can exceed 6 cfs after rainfall events (WCC, 1993a). Base flows below the Johnson Creek confluence are approximately 6 cfs (WCC, 1993a).

The Main Groundwater Treatment Plant (GTP) at the Site discharges treated groundwater to Clear Creek downstream of the Johnson Creek confluence. Part of the treated groundwater from the Main GTP is also discharged to Wahoo Creek. The amount discharged to Clear Creek averaged 1.44 cfs (644 gpm) in 2012 (ECC, 2013a).

2.4.4 Johnson Creek

Johnson Creek originates in the till uplands north of the Village of Mead, flows through the Todd Valley and into the LPNNRD Reservoir north of the former Landfill area. Souders' (1967) interpretation of the potentiometric surface is not affected by the upper portion of Johnson Creek in Todd Valley indicating a lack of hydraulic connection between the stream and groundwater. Johnson Creek is usually dry between the LPNNRD Reservoir and the Platte Valley. The USGS measured flow at the outlet of the LPNNRD Reservoir 29 times between March 1990 and October 1992, and flow was zero on all but one occasion. Where Johnson Creek enters the Platte Valley, the highest flow was less than 0.05 cfs during the five occasions the USGS measured flow (GWM08). Field observations of Johnson Creek in the Todd Valley suggest it is a losing stream and any water in the creek recharges the groundwater until Johnson Creek reaches the Platte Valley. Johnson Creek gains water in the Platte Valley primarily due to groundwater collected from agricultural drain tiles discharging to the creek. Upstream of the confluence with Clear Creek, Johnson Creek flows through an area of silty clay loam that is drained by agricultural tiles.

The gradient of Johnson Creek in the Platte Valley is steeper than the gradients of other streams in the model area. Upstream of the Memphis stream gage, gradients are greater than 10 ft/mi. The gradients of other streams in the Platte Valley and the Wahoo Creek Valley range from 2 to 8 ft/mi (GWM08).

Flow statistics through 2011 at the Johnson Creek Memphis Gaging Station (data collection at this station was discontinued in July 2011) are presented in Table 2-4. The average flow (based upon 50% exceedance frequency) was 1.4 cfs. Flow measurements of Johnson Creek collected during previous site activities are discussed in GWM08 and GWM10 (ECC and BMcD, 2011a).

2.4.5 Wahoo Creek

Wahoo Creek originates in western Saunders County and flows out of the till uplands near the town of Wahoo. The Wahoo Creek valley below Wahoo is closer in elevation to the Platte Valley than it is to Todd Valley. Souders' (1967) interpreted potentiometric surface suggests that Wahoo Creek is a gaining stream. The gradient of Wahoo Creek is approximately 3.5 ft/mi.

Two USGS staff gages are located on Wahoo Creek (Ithaca and Ashland), as shown on Figure 2-1. The flow statistics for these gages are presented in Table 2-4. The 50% exceedance frequency was 43 cfs at Ithaca and 73 cfs at Ashland.

Downstream of Ithaca, combined effluent from the Main GTP (2.4 cfs or an average 1,079 gpm) and the LL1 GTP discharged an average of 3.8 cfs (1,724 gpm) to Wahoo Creek in 2012. Approximately 0.59 cfs (263 gpm) of that amount was from the LL1 GTP. The LL4 GTP discharged an average of 1.1 cfs (480 gpm) to Wahoo Creek in 2012 (ECC, 2013a).

2.4.6 Silver Creek

Silver Creek originates in the Todd Valley near Cedar Bluffs, and flows south approximately 14 miles where it enters the Wahoo Creek Valley near Ithaca. Souders (1967) shows that Silver Creek is a gaining stream throughout most of its reach. In the Wahoo Creek Valley, Silver Creek is an entrenched stream. Silver Creek once flowed into Memphis Lake, and the outlet stream that drains Memphis Lake was the original channel of Silver Creek. However, a diversion channel redirected the upper portion of Silver Creek to Wahoo Creek near Memphis. In this report, Silver Creek refers to the stream that discharges to Wahoo Creek, and the smaller stream that drains Memphis Lake and is often dry, is called Lower Silver Creek.

The gradient of Silver Creek is generally steeper than other streams in the model area at approximately 7 ft/mi. A USGS staff gage was located on Silver Creek near Ithaca from 1949 until destroyed in a flood in 1958. The flow duration statistics for Silver Creek are presented in Table 2-4 (stage data was not available). The 50% exceedance frequency was 5.0 cfs. As part of the annual GMP, surface water levels are collected at several locations along Silver Creek.

2.5 Climate

Climatic factors must be accounted for in groundwater models. Precipitation and evapotranspiration (ET) are described for the Site model area below.

2.5.1 Precipitation

Monthly precipitation for National Weather Service (NWS) cooperative stations at Mead and Ashland and the High Plains Regional Climate Center (HPRCC) Automated Weather Data Network (AWDN) stations at Mead, Mead Turf Farm, and Mead Agro Farm are presented in Tables 2-7 through 2-11, respectively. The long-term mean annual precipitation from these stations ranges between 26.2 and 28.6 inches (Midwest Regional Climate Center, 2013 and HPRCC 2013).

Decreased Precipitation during 2012

In 2012 drought conditions occurred across the region. Total annual precipitation in 2012 was 66% to 76% of average annual precipitation at the NWS stations and 42% to 43% of average annual precipitation at the HPRCC AWDN stations. Figure 2-10 illustrates the 2011 and 2012 precipitation compared to average annual precipitation for each station.

2.5.2 Evapotranspiration

ET from groundwater occurs in areas where groundwater is shallow, such as the Platte Valley and Wahoo Valley, and is represented as a loss from groundwater. Potential ET (PET), which is estimated based upon several parameters (including temperature, wind speed and solar radiation), at the Mead, Mead Turf Farm, and Mead Agro Farm HPRCC AWDN stations averages 54.3 inches per year (Tables 2-12 through 2-14). Figure 2-11 shows the variability in measured PET over the year and the increase in PET during the summer months.

Increased Potential Evapotranspiration during 2012

As shown in Figure 2-11 the estimated 2012 PET was much larger than the average PET. PET recorded for 2012 at the HPRCC AWDN stations set record highs (Mead Turf Farm 67.98 inches [22 years of data], Mead Agro Farm 70.59 inches [18 years of data]) or near record highs (Mead 65.81 inches [2nd highest in 31 years of data]). Average PET for the three stations in 2012 was 68.1 inches. Figure 2-11 illustrates the 2011 and 2012 monthly PET compared to average monthly PET for the three HPRCC AWDN stations.

2.6 Aquifer Withdrawals

In the GWM12, aquifer withdrawals include extraction wells, municipal water supplies, and irrigation wells. The withdrawal and use of groundwater within the Site GWM12 boundary is described in the following subsections.

2.6.1 Former Nebraska Ordnance Plant Containment System

EW-1 and EW-8 began pumping in October 1998 as part of the initial Containment Removal Action. EW-2 through EW-7, and EW-9 and EW-10 began operation in February 2002 (Figure 1-2). The total pumping rate for these wells gradually declined from approximately 2,600 gpm in February 2002 to 2,200 gpm in March 2006 as the saturated thickness of the aquifer decreased approximately 4%, partially due to a multi-year drought. In February 2006, EW-12 was added to the containment system at the leading edge of the LL1 plume. EW-13 was also installed in February 2006 at the leading edge of the LL1 plume, but was not connected to the containment system due to low yield. Pumping at EW-8 in the LL1 plume, which had been pumping at approximately 290 gpm, was stopped in August 2007 and replaced in March 2008 by focused extraction well (FEW) 11 with a pumping rate of approximately 550 gpm. Pumping at EW-2 (LL1 plume) and EW-5 (LL4 plume) was stopped in late February 2009, based upon recommendations from previous groundwater models, which demonstrated that turning these two wells off did not impact containment of the plumes. FEW-14 and EW-16 in the LL3 plume were installed between April and May 2009 and brought online in June 2009. Pumping at EW-10 was

stopped in late February 2010, based on evaluations indicating that the well no longer benefited the containment of the LL2 plume. FEW-15 near the AMA plume was brought on line in May 2010 at 375 gpm and then increased to 500 gpm at the end of August 2010. EW-1 was abandoned and replaced by EW-1R in February 2012 due to a damaged well casing. Pumping at EW-3, EW-6, and EW-16 was stopped January 2013 to increase the efficiency of the groundwater containment system.

Pumping rates from February 2002 through December 2012 are detailed in Table 2-15. The pumping rates in these tables represent cumulative flow for each extraction well or focused extraction well for that particular month divided by the number of days in the month. This provides a slightly different estimate than presented before where the average pumping rate was calculated based on average rate only during operations which overestimates the long term average pumping rate if a well was down for several weeks. The method presented in Table 2-15 provides a conservative approach when evaluating containment.

2.6.2 Municipal Water Supplies and Irrigation Wells

Five municipal water supply systems are in the Site groundwater model area. A description of each supply system and their pumping rates are described below.

2.6.2.1 Metropolitan Utility District (Omaha) Platte West Field

The M.U.D. Platte West Field is located on both sides of the Platte River in Saunders and Douglas counties. Construction began in 2004 and the well field began intermittent pumping in July 2008 related to preliminary operations, and shakedown testing through October 2008. The well field did not operate from mid-November to mid-February 2009 (HDR Engineering, Inc. [HDR], 2012). Full-scale operations began in mid-February 2009. The Platte West Field is permitted to pump up to 104 million gallons on any given day but is restricted to an annual average of 52 MGD. For the 2011 water year, the total daily pumping rate fluctuated between a low of 23.9 MGD to a high of 60.3 MGD (HDR, 2012). The average daily pumping rate over the 2011 water year was 37.2 MGD. Omaha M.U.D. also operates large well fields near the Platte River in Sarpy County and near the Missouri River in Douglas County.

The Platte West Field is located in a north to south trending area of increased saturated thickness of the Platte River alluvial aquifer, and in an area where the Platte River recharges the aquifer. The field has 42 production wells classified as either “storage wells” (over 500 ft from the river) that will produce groundwater from aquifer storage, or “river wells” (within 500 ft of the river) that are expected to produce groundwater derived largely from recharge from the river (CAI, 2005). During average river stage, the base well field production will be provided by the river wells to minimize the number of wells operating and to preserve groundwater available from aquifer storage for use during low river flow conditions (CAI, 2005). Monthly pumping rates for individual wells from 2011 through 2012 are presented in Table 2-16 (Saunders County Well Field).

2.6.2.2 Lincoln Water System Ashland Field

The well field near Ashland supplies nearly all the water for the LWS. Therefore, the future total pumping rate of the well field can be estimated using the projected water demand for the entire system provided in the "Lincoln Water System Facilities Master Plan" (Black & Veatch, 2003). In 2011 and 2012, the average annual pumping rates for the LWS Ashland well field were approximately 38.5 MGD and 40 MGD, respectively. The summer seasonal average pumping rate is approximately 62 MGD with a maximum daily demand of approximately 114 MGD. According to the Master Plan, the average daily pumping rate will increase to 52 MGD in 2025, and 76 MGD in 2050. The Master Plan projects the summer seasonal yield will increase to 81 MGD in 2025, and 118 MGD in 2050. The LWS monthly pumping rates for the well field from 2011 through 2012 (LWS, 2013) are presented in Table 2-17.

2.6.2.3 Other Municipal Water Supplies

<u>Ashland</u>

The City of Ashland has four registered municipal water supply wells, the newest of which was installed in 2006. From 2005 to 2012, the annual average pumping rate ranged from 217 gpm to 292 gpm. The maximum monthly average pumping rate was 629 gpm in July 2012 (City of Ashland, 2013).

<u>Memphis</u>

The Village of Memphis has two registered public supply wells with a total pumping rate of 500 gpm, according to registration records. Assuming a 100 gallons per day per capita water use (Nebraska Natural Resources Commission, 1998), and a 2005 population of 109 (NDNR, 2006), the average water use based on per capita usage is estimated at 8 gpm.

<u>Mead</u>

The Village of Mead has four registered public supply wells with a total pumping rate of 1,050 gpm according to registration records. From 2005 to 2012, the annual average pumping rate ranged from 42 gpm to 52 gpm (Village of Mead, 2013).

The pumping rates for the City of Ashland (City of Ashland, 2013) and the Village of Mead (Village of Mead, 2013) are presented in Table 2-18.

2.6.2.4 Irrigation

As of December 2012, approximately 441 irrigation wells are registered within the Site model area (NDNR, 2012) and 362 are registered as "active". There are 301 irrigation wells that area assumed to be pumping in the model, the remaining registered irrigation wells are within the no flow boundaries, at the boundaries of the model or are adjacent to another operating well. The registered pumping rate, which in most cases is intended as a maximum pumping rate, averaged 760 gpm each for these wells. The average acreage to be irrigated on the registrations is 135 acres, close to the size of a quarter-section (NDNR, 2012).

In irrigated fields identified on the 2005 Nebraska Land Use Map (Center for Advanced Land Management Information Technologies [CALMIT], 2007) (Figure 2-12) with more than one registered active irrigation well, it is assumed that only one well is active. The existence of dormant wells still registered as "active" is evident in the Agricultural Research and Development Center (ARDC) pumping records, which show many wells that are not used every year. Dormant, backup, or underused wells are also evident in the registration records, which list sections with total registered acreage greater than 640 acres. In irrigated fields with more than one well, the newest well is assumed to be active.

The average pumping rates from 2010 to 2012 were used for the ARDC irrigation wells (ARDC, 2013). In addition one irrigation well (G-136409) was monitored for total flow readings in 2011 and 2012, these values were averaged over the irrigation season and are presented in Table 2-19. Pumping rates for other irrigation wells were initially estimated using the registered acreage, and the average net irrigation requirement as described in GWM08. Pumping rates for non-metered irrigation wells are estimated based on measured irrigation pumping rates from the ARDC wells.

The estimated irrigation pumping rates during a three-month irrigation season and the annual average irrigation rate are presented in Table 2-19. In 2011, irrigation rates in metered ARDC wells were 51% of the 2008 average, and in 2012 were 141% of the 2008 average (GWM08 and ARDC, 2013). For non-ARDC wells (i.e., wells without meters), irrigation rates for 2011 were estimated to be 51% of the 2008 rate, and irrigation rates for 2012 were estimated to be 141% of the 2008 rate, based on the changes observed in the ARDC metered wells.

2.7 Conceptual Model

The Todd Valley physiographic area is an abandoned stream terrace of the ancestral Platte River bounded by till uplands to the northeast, the Wahoo Valley to the west and south, and the Platte Valley to the southeast. The Wahoo Valley is incised into the Todd Valley terrace. The Todd Valley aquifer is unconfined and has approximately 20 to 70 ft of unsaturated thickness; the saturated thickness of the Todd Valley aquifer ranges between 30 to 100 ft. Bedrock beneath the alluvium consists of poorly cemented sandstone interbedded with shale and siltstone of the Cretaceous-age Omadi Formation. The vertical hydraulic communication between the bedrock and the alluvium is limited due to the small vertical gradient and the two-orders of magnitude difference in vertical hydraulic conductivities, as estimated from a number of slug tests.

Generally, the Platte River is a losing stream in the model area, whereas the Elkhorn River and Clear, Johnson, Silver, and Wahoo creeks are gaining streams. The overbank fine grained deposits (fines) in the Platte Valley and Wahoo Valley act as leaky confining layers over the aquifers because of their low hydraulic conductivity. The transition from unconfined conditions to confined conditions is evident along Johnson Creek. The portion of Johnson Creek that is in the Todd Valley is typically dry, except during precipitation events. The portion of Johnson Creek in the Platte Valley, however, typically flows because of groundwater discharge through the agricultural drain tiles and seeps as water flows from the unconfined Todd Valley aquifer into the Platte Valley aquifer. The upward leakage from the sand and gravel aquifer to the overlying overbank fines in the Platte Valley results in significant ET. Figure 2-13 presents this conceptual model.

A water budget is presented in Section 5, the primary inflows include the Platte River and the LPNNRD reservoir, and recharge. The primary outflows include rivers and creeks, ET and groundwater withdrawals from wells.

2.7.1 Groundwater Flow Directions

The groundwater flow direction in the Todd Valley aquifer is generally southeast, along the axis of the valley. Groundwater in the Todd Valley discharges into Silver Creek to the southwest of the Site, into the Wahoo Valley aquifer to the south, and into the Platte Valley aquifer to the southeast. Locally, the aquifer discharge zones alter the groundwater flow direction. Specifically, in the southwestern portion of the model area, the influence of Silver Creek and Wahoo Creek create a more southerly groundwater flow direction than observed along the axis of the Todd Valley. Along the eastern boundary of the Site, the groundwater flow direction in the Todd Valley becomes more easterly as it discharges into the Platte Valley aquifer at the contact between the Todd Valley and Platte Valley aquifers.

Groundwater flow in the Wahoo Valley aquifer is generally southeast with a southerly component near Silver and Wahoo creeks. The Wahoo Valley aquifer receives a large amount of groundwater flux from the Todd Valley aquifer where the two aquifers join.

The Platte Valley aquifer also receives a large amount of groundwater flux from the Todd Valley aquifer at the contact between the two valleys. The general groundwater flow direction of the Platte Valley aquifer is southeast as groundwater exits the Todd Valley and enters the Platte Valley. The groundwater flow directions from the Todd Valley side and the Platte River side of the aquifer converge on Clear Creek near the confluence with Johnson Creek.

2.7.2 Groundwater Gradients

The horizontal groundwater gradient in Todd Valley between MW-07A and MW-100A is approximately 12 ft/mi (ECC, 2013a). Generally groundwater gradients in the Todd Valley range from approximately 10 ft/mi in the western portion to 15 ft/mi in the southeastern portion (Figure 2-5 through 2-8). Horizontal groundwater gradients in the Platte Valley and Wahoo Creek valley are approximately 5 ft/mi.

Both upward and downward vertical gradients are distributed in all parts of the monitoring well network, with the exception of the LPNNRD Reservoir, where vertical hydraulic gradients are generally downward. The median vertical gradients between the deep (“D”) wells and the intermediate (“A”) wells were 0.02 (downward) in March 2011 and 0.03 (downward) in August 2011. The median vertical gradients between the intermediate (“A”) wells and the shallow (“B”) wells were -0.07 (upward) in March 2011 and 0.00 (no gradient) in August 2011. The median vertical gradients between the deep (“D”) wells and the intermediate (“A”) wells were 0.03 (downward) in March 2012 and August 2012. The median vertical gradient between the intermediate (“A”) wells and the shallow (“B”) wells was 0.02 (downward) in March 2012 and 0.04 (downward) in August 2012. These median gradients are consistent with vertical gradient data from the GWM10.

The most significant upward gradients in March and August 2011 were observed in the MW-105 and MW-109 well clusters (between the intermediate ["A"] wells and the shallow ["B"] wells) located along Johnson Creek. The most significant upward gradient in March and August 2012 was observed in the MW-44 well cluster (between the intermediate ["A"] well and the shallow ["B"] well) which is near the groundwater discharge area west of Johnson Creek.

The most significant downward gradient in March and August 2011 was observed in the MW-54 well cluster (between the intermediate ["A"] well and the shallow ["B"] well) which is near the LPNNRD Reservoir. The most significant downward gradient in March 2012 was observed in the MW-54 well cluster (between the deep ["D"] well and the intermediate ["A"] well). The most significant downward gradient in August 2012 was observed in the MW-107 well cluster (between the intermediate ["A"] well and the shallow ["B"] well) near Johnson Creek.

2.8 Groundwater Recharge

Sources of groundwater recharge, as presented in the conceptual model (Figure 2-13), include localized groundwater recharge from the surface water bodies (LPNNRD reservoir and Platte River) and recharge derived from precipitation.

A significant source of recharge to the Platte Valley aquifer is the Platte River. Data collected from a well point installed in the riverbed indicated that the river is losing even under non-pumping conditions (Layne Christensen Company, 2008). According to Layne Christensen (2008), 80% of the 2,300 gpm pumped from M.U.D. well PW04 39 during a 2008 pumping test was induced outflow from the Platte River.

According to Szilagyi *et al.* (2003), the long-term mean annual base groundwater recharge in the study area ranges from 3.5 to 4.3 inches/year, and the long-term mean total recharge ranges from 3.9 to 5.9 inches/year (Szilagyi *et al*., 2005). Base recharge is defined by Szilagyi *et al* (2005) as the total recharge minus any potential losses from groundwater storage other than discharge to streams. The amount of recharge attributed to precipitation is discussed in Section 5.

2.9 Groundwater Discharge

Groundwater discharges as shown in the Site conceptual model (Figure 2-13) include wells, ET and localized groundwater discharge to surface water bodies.

2.9.1 Wells

According to "Water Use in Nebraska, 2005" (USGS, 2005), the major uses of groundwater in Saunders County are irrigation and public water supply. The major public water supply fields are the M.U.D. Platte West and the LWS Ashland well fields. The water use rates by category are summarized in Table 2-20.

In the model area, the primary uses of groundwater include municipal water supply, irrigation, and extraction from the Site hydraulic containment system.

2.9.2 Evapotranspiration

ET from groundwater occurs in areas where groundwater is shallow, such as the Platte Valley and Wahoo Valley, and represents a loss from groundwater. Studies conducted by Szilagyi *et al* (2003) and Suyker and Verma (2009) estimate total annual ET between 21.7 inches to 29.4 inches. The areal effective groundwater ET, which can be considered the difference between total recharge and base recharge, is 0.4 to 1.6 inches per year.

ET from groundwater is greatest in riparian forest areas with phreatophytes. Areas of riparian forest are identified in a band ranging from 0 to 0.5 miles wide along the Platte River on the 2005 Nebraska Land Use Map (CALMIT, 2007), and are presented on Figure 2-12.

2.9.3 Localized Groundwater Discharge

Groundwater discharges to Silver Creek and the Elkhorn River under normal conditions (i.e., gaining streams). Groundwater also discharges through drain tiles, seeps, and wetlands near the confluence of Johnson Creek and Clear Creek in the Platte Valley (Figure 2-14). GWM08 describes in detail a series of field investigations conducted in 2007 and 2008, including stream/drain-tile flow measurement, surface water sampling, and the EW-1 pumping test to improve the conceptual model near Johnson Creek. GWM10 further discusses the hydrogeologic conditions at the boundary of the Todd Valley and Platte Valley.

The gradient observations presented in GWM08 and GWM10 are consistent with those observed as part of the 1993 groundwater flow net analysis (WCC, 1993a). The 1993 flow net analysis was based on a temporary east-west piezometer alignment located along the half-section road approximately one-half mile north of the MW-157 to MW-46 cross section (along County Road G). The 1993 analysis reported hydraulic heads in the sand/gravel unit several feet higher than the water levels in the overbank fines, indicating an upward vertical hydraulic gradient.

2.9.3.1 Drain Tiles

In the Platte Valley, Johnson Creek and Clear Creek flow through the overbank fines with relatively constant base flow rate (as discussed in Section 2.4.4). This relatively constant base flow in both creeks is mainly sustained by discharge from agricultural drain tiles and seeps along the creeks.

The farmlands in the vicinity, including the east portion of Section 34 and the portion between Johnson Creek and Clear Creek in Section 35, are sub-irrigated by upward flowing groundwater. Drain tiles were installed in the farmlands to drain excess water to keep the water level below the desired elevation. Approximately 21 drain tiles along Johnson Creek primarily discharge along the west side of Johnson Creek (Figure 2-14); however, some drain tiles discharge along the east side of Johnson Creek. The drain tiles flow all year.

Surficial groundwater discharge from the drain tiles is greater during non-irrigation season when the groundwater levels are higher, and less during irrigation season when pumping and high ET lower the groundwater table. Precipitation amounts have a significant influence on the drain tile

flow rates. During rainfall or snow melt, the drain tiles and culverts convey precipitation infiltration, as well as groundwater flow, and overland flow.

In GWM08, a detailed discussion was provided on measurements from drain tiles. Based on the December 2007 measurements, the total drain tile flow rates from the areas east and west of Johnson Creek were 180 gpm and 1,450 gpm, respectively. Additional flow measurements presented in GWM10 from locations along Johnson Creek showed increased flow approximately two miles downstream of where Johnson Creek flows out of the Todd Valley into the Platte Valley.

GWM08 and GWM10 also discuss TCE and RDX detections in surface water and drain tile sample results, indicating groundwater discharge to the ground surface and flowing into Johnson Creek through drain tiles or seeps.

2.9.3.2 Summary of Groundwater Discharge Conceptual Model near Johnson Creek

A summary from previous investigations of the Johnson Creek area groundwater discharge zone and Johnson Creek and Clear Creek as gaining creeks within the area is presented below.

Groundwater from the sand/gravel unit discharges upward through the overbank fines to the ground surface. Direct evidence of groundwater discharge in this zone includes:

- Direct hydraulic communication between groundwater and Johnson Creek and Clear Creek is limited because of the low permeability of the overbank fines adjacent to and below the creeks.
- A strong upward hydraulic gradient between the sand and gravel unit and the overbank fines causes surficial groundwater discharge over a large area. This area most likely covers the portions between the valley wall and Johnson Creek and the portion east of Johnson Creek within Sections 27 and 34, as evidenced by the distributed seeps and drain tiles.
- The wetlands and small ponds within the artesian (ART) property (Figure 2-14) are sustained by groundwater discharge. The small ponds do not freeze in winter even though the surrounding area is frozen. An artesian well and sustained seeps are also found on the artesian property area (Figure 2-14).
- The gaining reaches of Johnson Creek and Clear Creek are primarily supplied by groundwater discharge to drain tiles, seeps, and drainage ditches that subsequently flow to the creeks. Because the surficial groundwater discharge occurs over a large area, even though the rate of leakage per unit area is small, the overall volume of flow to Johnson Creek sourced from the seeps, drain tiles, and ditches is large and sustained.

The AMA TCE plume discharges upward to the ground surface in this area, especially on the ART property (Figure 2-14). Some groundwater is captured by the drain tiles, seeps, and ditches and subsequently discharged to Johnson Creek, where it is diluted, evaporated, or transpired. The upward vertical hydraulic gradient causes groundwater to discharge to Johnson Creek. The majority of the discharge is on the west side of Johnson Creek based upon field measurements at the drain tiles.

3.0 GROUNDWATER CONTAMINANT CONCEPTUAL MODEL

The following sections describe the Site groundwater contaminant conceptual model including the contaminant plumes characterization and interpretations, focused remediation, and fate and transport of the contaminant plumes.

3.1 Plume Characterization

The Site areal distributions of the main contaminants of concern (RDX and TCE) were interpreted based on recently collected groundwater data from the 2012 GMP and from multiple investigations, the largest and most recent of which were:

- Spring 2007 and Fall 2007 Groundwater Investigations (URS, 2008);
- FEW-14 Investigation (ECC, 2008);
- 2008 Groundwater Investigation (URS, 2009b);
- 2010 Pre-Pilot Study Investigation (ECC and BMcD, 2011b);
- 2010 Aquifer Characterization (ECC, 2011a);
- 2011 GMPOI (ECC, 2012a)
- Monitoring Well Network Optimization, Phase II (ECC, 2013b).

Spring 2007 and Fall 2007 investigations targeted the LL2 and LL3 plumes. The FEW-14 investigation focused on delineating the leading edge of the LL3 RDX plume in the vicinity of the proposed location of FEW-14. The LL1 plume was the subject of the 2008 investigation, with additional samples collected near EW-10 in the LL2 plume. Three areas of higher RDX or TCE concentrations in the LL2 plumes were the focus of the Pre-Pilot Study Investigation. The 2010 Aquifer Characterization focused on the LL1, LL3, and LL4/AMA plumes. The 2011 GMPOI focused on the LL1 plume, the LL2 RDX plume, the LL3 RDX plume near EW-3 and EW-16, and select areas of the LL4/AMA plumes. Phase II of the Groundwater Monitoring Program Optimization included the installation of additional wells to monitor interior plume concentrations. The analytical results used in the characterization are presented in Tables 3-1 and 3-2.

3.2 Plume Interpretation

Figures 3-1 through 3-16 were prepared to define the initial concentrations for contaminant transport simulations. For the purpose of this regional groundwater model, the saturated thickness of the sand and gravel aquifer is divided approximately equally into the shallow layer (Layer 2), which contains the shallow monitoring wells, and the intermediate layer (Layer 3), which contains the intermediate monitoring wells. TCE and RDX distributions were evaluated using data collected from the GMPOI, aquifer characterization, the Pre-Pilot study, the most recent monitoring well data collected as part of the GMP, and to a lesser extent the direct-push data collected prior to 2009. The groundwater data obtained over these five years were used to create a representation of the current distribution of TCE and RDX in groundwater based on the maximum concentration at each location within the shallow zone or the intermediate zone. The maximum concentration of TCE or RDX at each location in the shallow or intermediate zone was used in a contouring program using kriging with anisotropy to create a two-dimensional representation of contaminant levels. These contours were then adjusted based on

professional judgment using historical information and groundwater flow directions. The depicted plume concentrations and extents are presented as Figures 3-1 through 3-16. The isoconcentration contours were developed as part of the GMPOI; however, the latest monitoring well data from the 2012 GMP is shown in blue in these figures.

Direct-push sampling accounts for a significant number of sampling points and depths. At locations where more than one direct-push sample was collected in a layer, the highest concentration was used in the interpretation. The most recent groundwater sample from each monitoring well was used. The figures show the maximum constituent concentration at each location in each layer used to characterize the plume concentration and extent.

Long-term data within the interior and high concentration areas of the contaminant plumes are limited; therefore, graphs of concentration over time for selected wells are provided in Appendix C. These graphs show varying constituent concentration trends, which are discussed further in the following sections.

3.3 Historic Activities

The Nebraska Defense Corporation operated the Site for the Army from 1942 until 1945. During World War II, bombs, shells, and rockets were assembled at the Site. Ordnance production was terminated in 1945 and the facility was placed on inactive status. Between 1945 and 1949, the buildings on the Site were decontaminated and used primarily for storage and disposal of bulk explosives and munitions.

In addition, ammonium nitrate was produced for use as fertilizer. In 1950, the plant was temporarily reactivated and produced an assortment of weapons for use in the Korean Conflict. The Site was placed on standby status in 1956. In 1959, approximately 17,250 acres were determined to be surplus and were transferred to the General Services Administration for disposition.

From 1959 to 1960, the AMA was built north of LL4. TCE was used during construction to degrease and clean pipelines used to carry liquid oxygen fuel for missiles. The northern end of LL1 was formerly used as the Air Force Ballistic Missile Division Tech Area.

Since the 1960s, private individuals, government agencies, and corporations including the University of Nebraska, the Nebraska Army National Guard, the United States Air Force, the United States Army Reserves, and the United States Department of Commerce have conducted operations at the Site.

3.3.1 Historic Activities Related to the Use of Explosives

The munitions assembly and load lines were active during World War II and the Korean Conflict. The load lines are numbered 1 through 4 from west to east, and are identifiable on maps by the diamond-shaped roads surrounding their former locations. Based on the available data, the RDX plumes appear to emanate from the load line areas, and from a cluster of potential sites including the former Burning Grounds and former Proving Grounds near the former Landfill area, as well as the former Landfill area itself. The former Landfill area is located

approximately one mile east of LL4, south of the LPNNRD Reservoir. 2,4,6-trinitrotoluene (TNT) and/or Composition B, which consists of RDX and TNT, were handled at all four load lines (WCC. 1993b). 1,3,5,7-tetranitrol-1,3,5,7-tetrazine (HMX) is a by-product of RDX production, and was detected primarily in Remedial Investigation soil samples near LL2 (WCC, 1993b). TNT and HMX usually co-exist with the more prevalent RDX in groundwater.

3.3.2 Historic Activities Related to the Use of TCE at LL1

The northern end of LL1 was formerly used as the Air Force Ballistic Missile Division Tech Area. TCE, as a dense non-aqueous-phase liquid (DNAPL), was allegedly disposed in ditches, possibly between 1959 and 1964 (WCC, 1993b). The high soil gas concentrations located at the northwestern end of Load Line 1 (WCC, 1993b), and the soil vapor extraction pilot test results (WCC, 1996c) support the possibility of this location as a possible release area of TCE. These soil gas concentrations are about one order of magnitude higher than soil gas concentrations in the AMA area.

3.3.3 Historic Activities Related to the Use of TCE at LL2 and LL3

Historic activities associated with TCE at LL2 and LL3 are unknown. The historic source area of the LL2 TCE plume is assumed to be in the vicinity of LL2, although the location of any releases is unknown. The LL2 and LL3 TCE plumes are less extensive than the LL1 TCE plume or the AMA TCE plume. This may be due to TCE being released at a later date and/or because a smaller amount of TCE solvent was released as compared to the LL1 and AMA sites.

3.3.4 Historic Activities Related to the Use of TCE at LL4/AMA and former Landfill area

Based on the available data, separate TCE plumes appear to emanate from the AMA, LL4, and from a cluster of potential sites including the former Burning Grounds, former Proving Grounds, and the Landfill area. TCE solvent was allegedly used to clean liquid oxygen pipelines at the AMA around 1959 and allegedly disposed on the ground. Similar to LL1, the areal distribution of TCE concentrations suggests that multiple release areas within the AMA cannot be ruled out. The upgradient extent of the TCE plume near the AMA forms two lobes; one lobe is in the center of the ring road connecting the former silos, and the other lobe is near a holding pond northeast of the former silos near direct-push location GP-T33-05. The southwestern lobe is located approximately 400 feet south-southeast from the area with the highest soil gas concentrations in 1992 (WCC, 1993b).

The concentrations of TCE in groundwater near the former Burning Grounds, former Proving Grounds and the former Landfill area suggest historic activities related to TCE were minimal as concentrations in groundwater are below 100 micrograms per liter (µg/L).

3.4 Focused Remediation

Focused remediation at the Site has included focused extraction wells and two separate pilot studies; one utilizing groundwater recirculation wells and one conducted investigating the use of biologically active zone enhancement.

3.4.1 Groundwater Circulation Wells

Two pilot groundwater circulation wells were installed in 2000. Groundwater circulation well (GCW)-1 is located near MW-40 in an area of elevated TCE concentrations north of LL4 and southeast of the former AMA (URS, 2001). TCE is extracted from groundwater with an air stripper, and the treated groundwater is returned to the aquifer at a rate of approximately 23 gpm. In 2012, the GCW-1 system removed approximately 26 pounds of TCE (ECC, 2013a). GCW-1 is still in operation at the Site.

GCW-2 was located in the center of the RDX plume southeast of LL2 (URS, 2001). Groundwater was extracted with a submersible pump and RDX was treated with ultraviolet light. The treated groundwater was returned to the aquifer at a rate of approximately 20 gpm. From 2005 to 2007, the GCW-2 system removed approximately 1.82 pounds of RDX. The system was shut down in July 2008.

3.4.2 Biologically Active Zone Enhancement

Although it was not part of focused extraction, a Biologically Active Zone Enhancement (BAZE) Pilot Study involving injection of acetate to enhance in-situ RDX degradation was implemented in the LL2 plume approximately one mile southeast of GCW-2.

3.4.3 Focused Extraction Wells

FEW-11 is a focused extraction well that extracts TCE-contaminated groundwater from the middle portion of the LL1 plume where TCE concentrations initially exceeded 10,000 µg/L, and, as a result, minimizes the TCE concentrations in the portion of the plume migrating south to EW-12. In 2012, FEW-11 extracted approximately 223.9 million gallons of groundwater with TCE concentrations ranging from 1,600 to 2,000 µg/L and RDX concentrations ranging from 2.9 to 4.1 µg/L. Contaminated groundwater from FEW-11 is treated first at the AOP plant and then at the Main GTP. During 2012, 3,459 pounds of TCE were removed by the AOP.

FEW-14 was installed in 2009 to extract RDX-contaminated groundwater from the portion of the LL3 RDX plume where RDX concentrations initially exceeded 10 µg/L. In 2012, FEW-14 extracted approximately 95 million gallons of groundwater with TCE concentrations ranging from 0.93J µg/L to 1.1 µg/L and RDX concentrations ranging from 5.0 to 5.7 µg/L. Contaminated groundwater from FEW-14 is treated at the Main GTP.

FEW-15 was installed downgradient of GCW-1 in 2009 to extract TCE-contaminated groundwater from the northern portion of the AMA plume where TCE concentrations have exceeded 10,000 µg/L. In 2012, FEW-15 extracted approximately 247.7 million gallons of groundwater with TCE concentrations ranging from 370 to 450 µg/L. Contaminated groundwater from FEW-15 is treated at the LL4 GTP. During 2012, 845 pounds of TCE were removed by the LL4 GTP.

3.4.4 LL2 Pilot Study

The LL2 Pilot Study is currently in progress and is being conducted under a separate contract. The Pilot Study consists of in-situ remediation at two areas within the LL2 plumes. The first area, Preliminary Treatment Area-1, focuses on pilot scale treatment of the TCE plume using zero valent iron and enhanced bio-reduction with sodium lactate. The second area, Preliminary Treatment Area-2, focuses on an area in the RDX plume using enhanced bio-reduction treatment with sodium acetate. Both of these pilot treatment projects were implemented in 2012 and performance monitoring is currently occurring.

3.5 Fate and Transport

Advection, dispersion, and retardation are the primary processes controlling contaminant transport. The following sections describe the Site plumes and the primary transport mechanisms.

3.5.1 LL1 TCE Plume

The chlorinated solvent TCE is believed to have been released into the subsurface at LL1 between 1959 and 1964, as evidenced by the large-scale TCE plumes with concentrations greater than 1% of TCE solubility. The solubility of TCE is 1,100 milligrams per liter or 1,100,000 µg/L, and 1% of the solubility is 11 milligrams per liter, or 11,000 µg/L. The specific density of TCE solvent is 1.4642 kilograms per liter, which is heavier than water. Thus, TCE solvent is classified as a DNAPL. Although DNAPLs have not been found at the site, United States Environmental Protection Agency (EPA) guidance suggests that TCE concentrations greater than 1% of its aqueous solubility may indicate the possible presence of DNAPL in the subsurface (EPA, 1992).

The extent of the 10,000 µg/L TCE isoconcentration contour within the shallow zone in 2012 was approximately one mile long. The extent of the LL1 TCE plume over 5 µg/Lin 2012 was approximately 3.1 miles long and varies in width up to approximately 2,700 ft as shown on Figures 3-1 and 3-2.

Appendix C presents TCE concentration trend charts in interior plume wells. Some partially interior wells indicate decreasing concentrations that could be due to slight shifts in the plume (due to variable operation and pumping rate of irrigation wells or changes in operation of FEW-11 and EW-8) or a natural downgradient migration of the plume. MW-90 in the downgradient portion of the LL1 plume shows a “first arrival” of TCE in the downgradient portion of the plume.

The overall conceptual model for TCE transport suggests that groundwater flowing past DNAPL residuals has leached TCE and created the large-scale TCE plume downgradient of the former source area. This conceptual model is consistent with the extensive field investigation conducted in 2007 (Brown and Caldwell, 2007), which did not find any direct evidence of DNAPL in the subsurface. Additionally, statistical analysis indicated a decreasing trend for TCE in MW-127B and MW-127E, which are located in the area of historically high concentrations.

3.5.2 LL2 and LL3 TCE Plumes

As discussed in Section 3.3.3, little is known about historic activities using solvents at LL2 and LL3. The maximum concentrations at the LL2 and LL3 TCE plumes are below 200 µg/L. The extent of the LL2 TCE plume over 5 µg/L in 2012 was approximately 1.2 miles long and varies in width up to 1,400 ft (Figure 3-5 and 3-6). The extent of the LL3 plume over 5 µg/L in 2012 was approximately 2,200 feet long and 700 feet wide (Figure 3-9 and 3-10). The conceptual understanding of transport of the LL2 and LL3 plumes is that the plumes are generally advecting with groundwater flow and there is no longer a residual high concentration zone.

Based on the data gathered at the Site to date, the presence of TCE degradation products and dissolved gases data do not indicate that significant reductive dechlorination is occurring at LL2. Bench-scale laboratory treatability studies conducted as part of the Pre-Pilot Study Investigation suggested no significant indications of reductive dechlorination over the course of the laboratory study (approximately 90 days). While the absence of dechlorination over this time period is not unusual, the complete absence of microbial activity and TCE degradation was considered atypical. Based on (1) Pilot Study Investigation results; (2) the observed reactivity of aquifer material collected at LL2 during laboratory and field tests; and (3) literary precedence, at least some TCE degradation (to dichloroethene [DCE]) is expected based on the reducing conditions in this area as documented during the Pre-Pilot Study Investigation (ECC and BMcD, 2011b).

Overall, the laboratory treatability study results indicate that the aquifer may require an extended period of time to develop reducing conditions and the development of an effective dechlorinating microbial community may not be feasible. In general, the results of the bench-scale testing further indicate that significant TCE dechlorination is not occurring under natural (unamended) conditions, nor has it been observed based on daughter product detections elsewhere at the Site.

3.5.3 LL4/AMA and Landfill TCE Plumes

The TCE plume that emanates from the LL4/AMA areas is approximately five miles long. The original TCE solvent release in the suspected AMA historic high concentration area probably has been dissolved and flushed downgradient. The plume that emanates from the Landfill area is approximately two miles long (Figure 3-13 and 3-14) before becoming comingled with LL4/AMA plume for approximately one mile. A bedrock high between LL4 and the former Landfill area and the distribution of contaminants indicate that TCE was released both at the LL4/AMA area and near the Landfill, which is east of the bedrock high. Data indicate that these plumes comingle when the plumes reach the Platte Valley (Figure 3-13 and 3-14).

Data gathered within the LL4/AMA TCE plume indicates TCE is present at high concentrations in the upper portion of the saturated zone between monitoring wells MW-139B and MW-136E (Figure 3-13); however, further downgradient, the high concentration core has migrated to the lower portion of the aquifer. The higher concentration core (> 1,000 µg/L) of TCE in groundwater is approximately 4,000 feet measured perpendicular to the plume in the upper portion of the saturated zone. The analytical data suggest that the higher concentration core descends vertically within the aquifer as the plume migrates downgradient which is likely a

result of changes in the groundwater flow path and the influence of irrigation wells screened in the lower portion of the aquifer.

The increase in TCE concentrations between 2004 and 2012 at MW-9A and MW-42A (Appendix C) may have resulted from pumping at EW-2 through EW-7, EW-9, and EW-10 between 2002 and 2010, which caused a south-southwestward shift in the LL4/AMA plume as suggested by previous groundwater modeling. Based upon previous groundwater modeling, several of these extraction wells are now turned off (EW-2, EW-3, EW-5, EW-6, EW-10 and EW-16) and the pumping rate has been reduced at other wells.

The conceptual model of the LL4/AMA plume is that because concentrations above 1% of the solubility of TCE are not widely present in these plumes, the primary transport mechanisms are advection and retardation.

3.5.4 Summary of TCE Plumes

In general, the areal extent of TCE in the shallow and intermediate zone is similar at each of the load lines. TCE transport is dominated by advection and to a lesser extent retardation. Along with the advective dominated horizontal migration downgradient, the plumes have gradually migrated to the lower portion of the aquifer, due to:

(1) minor downward hydraulic gradients between the shallow and intermediate layers as the result of areal groundwater recharge and seasonal irrigation pumping; and
(2) groundwater containment extraction near the front of the plumes, which has created a downward gradient in the area near the extraction wells.

The TCE plumes at LL1 and LL4/AMA are longer than the RDX plumes for these load lines. The LL2 and LL3 TCE plumes are smaller in extent and lower in concentration than the LL1 and LL4/AMA plumes and also smaller in extent than the RDX plumes at LL2 and LL3 indicating different historic TCE release scenarios at LL2 and LL3.

3.5.5 LL1 RDX Plume

The LL1 RDX plume is the shortest RDX plume at approximately 2 miles long and is largely present only in the shallow layer, which is different from the other RDX plumes (Figure 3-3). This may be related to the difference of the saturated thickness in different plumes. The lower RDX concentrations in the LL1 RDX plume may be diluted below the Health Advisory level (2 μg/L) before moving downgradient and/or migrating to the intermediate layer.

The LL1 RDX plume has not completely detached from the suspected release area yet, even though shallow soil associated with production activities was excavated in 1997 as part of the OU1 Remedial Action (OHM Remedial Services Corporation, 1998). Within the RDX plume, there are no strong concentration gradients (i.e., the concentrations at the suspected release area or upgradient are not higher than the concentrations in the downgradient area.)

The LL1 RDX plume is shorter in length than the LL1 TCE plumes suggesting that although the plumes are being transported through advection, a higher retardation factor is a component in the overall fate and transport of RDX.

3.5.6 LL2 RDX Plume

The LL2 RDX plume has the highest maximum RDX concentrations (994 µg/L in pre-BAZE pilot sampling in 2003 and 320 µg/L in 2012). The leading edge of the LL2 RDX plume has travelled approximately 3 miles from the center of the load line (Figure 3-7 and 3-8). This is similar to the leading edge of the LL3 RDX plume indicating that RDX was released at roughly the same time period. Similar to the LL1 plume, the LL2 RDX plume has not completely detached from the suspected release area yet, even though shallow soil associated with production activities was excavated in 1997 as part of the OU1 Remedial Action (OHM Remedial Services Corporation, 1998).

Data from direct-push samples collected in 2010 and 2011 and monitoring wells installed in 2011 provided an increased understanding of interior plume concentrations throughout the LL2 RDX plume. The highest observed concentrations in the 2012 plume depiction were in the BAZE area; this is consistent with the 2010 plume depiction. The 2012 GMP data also refined the areas of elevated concentrations throughout the plume that were previously depicted by pre-2006 data (e.g., RDX concentration in MW-165B in 2012 was 170 µg/L). The current depiction of the plume in the shallow aquifer shows the portion of the plume exceeding 2 µg/L does not extend as far downgradient and the plume in the intermediate aquifer is not as laterally extensive as it was in the previous plume depiction. Statistical analysis indicated a decreasing trend for RDX in MW-05B, in the upgradient portion of the plume (ECC, 2013a).

Data from the Pre-Pilot Study Investigation demonstrated that reductive processes are occurring in the aquifer. Low level detections of other explosive compounds indicated that some in-situ RDX transformation is occurring via biotic and abiotic processes (ECC and BMcD, 2011b); however, it does not appear to be a major component in the overall fate and transport of RDX.

3.5.7 LL3 RDX Plume

The LL3 plume has a lower maximum RDX concentration (46 µg/L at LL3 in 2012) than the LL1 and LL2 RDX plumes. The areal concentration distributions of the LL3 RDX plumes (Figures 3-11 and 3-12) suggest that there is no longer a high concentration source area contributing RDX; the current depiction of the RDX plume appears to have detached from the load line. The current depiction of the LL3 RDX plume shows the portion of the plume exceeding 2 µg/L (extending to the EW-4 area) does not extend as far downgradient as it did in 2010 (extending from MW-99 to EW-3). Statistical analysis indicated a decreasing trend for RDX in downgradient wells MW-99B, MW-128A, MW-128B, MW-130A, and MW-131B, and sidegradient wells MW-33A and MW-33B (ECC, 2013a).

Analytical data collected at LL3 during the Aquifer Characterization at point GP-T75 show that the highest concentrations of RDX in groundwater are approximately at the midpoint of the saturated thickness of the aquifer. Further downgradient along points GP-T76 and GP-T77, RDX concentrations suggest the contamination is vertically stratified. For example, the maximum concentration at T76-003 was detected at the base of the aquifer, whereas the maximum concentration at T76-001 and T76-002 was detected near the top of the aquifer (ECC, 2011a).

3.5.8 LL4 and Burning Grounds/Proving Grounds RDX Plume

The LL4 and Burning Grounds/Proving Grounds area RDX plumes have the lowest maximum RDX concentrations (45 µg/L at MW-53B). The LL4 and Burning Grounds/Proving Grounds area RDX plumes (Figure 3-15 and 3-16) are not as long as the LL2 and LL3 plumes. This difference in length may result from a change in regional flow direction at the transition from the Todd Valley, where flow is generally to the southeast, to the Platte Valley, where the flow direction is locally to the south. The LL4 RDX plumes is shorter in length than the LL4 TCE plumes suggesting that although the plumes are being transported through advection, a higher retardation factor is a component in the overall fate and transport of RDX.

3.5.9 Summary of RDX Plumes

In general, the RDX plumes are longer or the same length in the shallow layer as they are in intermediate layer, and the concentrations in the shallow layer are higher in the upgradient portions of the plumes than in the downgradient portions, while the intermediate layer concentrations are higher in the downgradient portions than in the upgradient portions. This can also be observed from the concentration temporal trend charts (Appendix C). In the upgradient portion of the plume the shallow RDX concentrations are usually higher than the intermediate concentrations in the same well cluster, while in the downgradient portion, the shallow RDX concentrations are generally lower than the intermediate concentrations. This may indicate that the initial RDX plumes originated in the shallow portion of the aquifer in the upgradient area, as would be characteristic of a surface release of RDX as indicated in the conceptual model. Along with the horizontal migration downgradient, the plumes have gradually migrated to the lower portion of the aquifer, due to:

(1) minor downward hydraulic gradients between the shallow and intermediate layers as the result of areal groundwater recharge and seasonal irrigation pumping; and
(2) groundwater containment extraction near the front of the plumes, which has created a downward gradient in the area near the extraction wells.

3.5.10 Retardation

Dissolved-phase contaminants can be adsorbed to and desorbed from soil particles during contaminant plume migration; another term for this process is retardation. Adsorption removes dissolved contaminants from groundwater whereas desorption releases soluble contaminants to groundwater. Adsorption/desorption can be an important fate and transport mechanism, and has an effect on the rate of plume migration and the longevity of the contaminant plume. It is also an important consideration for selection of remedial technologies.

The retardation factor depends on both the chemical properties and the aquifer properties. The retardation factor can be expressed as follows:

$$R = 1 + \frac{\rho_b}{n} K_d$$

Where: R is the retardation factor
ρ_b is the bulk density

n is the porosity
K_d is the distribution coefficient.

The bulk density and porosity are aquifer properties. The coefficient of distribution (K_d) is directly proportional to the fraction of TOC (f_{oc}) in saturated soils and to the organic carbon partition coefficient (k_{oc}) for the chemical. If K_d is greater than zero, then the chemical in groundwater will migrate at a slower velocity than the groundwater or be retarded (Bedient, *et al*, 1999).

TCE

The adsorption and desorption of dissolved TCE is commonly related to the TOC content in the saturated soil and, in some situations, the cation exchange capacity. The GWM08 discussed available TOC data across the Site, although TOC data was collected as part of the Aquifer Characterization, GMPOI, and Groundwater Monitoring Program Optimization (Phase II), the data suggested concentrations of TOC below the high quantification limit (ECC, 2011a, ECC, 2012a, and ECC, 2013b). The TOC concentrations from the analysis of sand and gravel samples ranged between 68 milligrams per kilogram (mg/kg) and 3,690 mg/kg, with a geometric mean of 224 mg/kg, and a standard deviation of 673 mg/kg. The TOC concentrations in clay and silt samples are much higher than those in the sand and gravel samples. The TOC concentration in soil samples collected from the overbank fines ranged between 810 mg/kg and 43,400 mg/kg (in highly organic clay), with the detections having a geometric mean of 4,200 mg/kg and a standard deviation of 17,000 mg/kg. With a typical k_{oc} of 107 liters per kilogram (L/kg) (Knox, *et al*, 1993) and a f_{oc} of 2.24E-04 for sands and the average f_{oc} of 4.2E-03 for clays and silts, the average TCE K_d within the sands is approximately equal to 0.024 L/kg and within the overbank fines or clay zones is estimated to be 0.4 L/kg. The low TOC concentrations in the sands and gravels and the low K_d value are consistent with the fast advective transport as observed at the TCE plumes. The low K_d value implies that the sorption is reversible and desorption and adsorption may occur at similar rates.

RDX

According to Yamamoto *et al*. (2004), adsorption and desorption of RDX is not only proportional to the soil TOC, but also depends on soil particle size distribution, pH, cation exchange capacity, and total iron content. A K_d value for RDX was estimated based on comparison with literature values, the observed RDX concentration distribution at the Site, and historical plume matching model simulations in the GWM08 and the GWM10.

Yamamoto, *et al*. (2004) reported that the estimated RDX K_d values in a sandy alluvial aquifer at the Massachusetts Military Reservation varied between 0.072 L/kg in the deep soil to 0.37 L/kg (adsorption) and 1.5 (desorption) L/kg in the surficial soil, respectively. The f_{oc} in the deep soil at the Massachusetts Military Reservation is 0.04%, which is similar to the f_{oc} value (0.022%) in the sand and gravel unit at the Site.

The transport of RDX at the Site is limited by retardation.

3.5.11 Biodegradation

TCE

Biodegradation of TCE at the Site is limited based on data gathered during the Pre-Pilot Study (ECC and BMcD, 2011b) and the limited presence of the degradation product, cis-1,2-DCE. Where cis-1,2-DCE is detected in monitoring wells, it is found at low concentrations. These observations suggest that biodegradation of TCE is not an important component in TCE fate and transport and, therefore, a half-life of 65 years was used in the model based on professional judgment. This is the same value estimated for the Blaine Naval Ammunition Depot site in Hastings, Nebraska (URS, 2004b).

RDX

McCormick, Cornell, and Kaplan (1981) noted that RDX is resistant to microbial transformation in aerobic soils, but reported RDX biodegradation within anaerobic sludge and described a potential pathway based on the sequential reduction of RDX to hexahydro-1-nitroso-3,5-dinitro-1,3,5-triazine (MNX), hexahydro-1,3-dinitroso-5-nitro-1,3,5-triazine (DNX), and hexahydro-1,3,5-trinitroso-1,3,5-triazine (TNX). Freedman and Sutherland (1998) subsequently found that RDX biodegrades after nitrate is completely consumed. Bernstein *et al* (2010) estimated RDX biodegradation half-lives ranging from 4.4 to 31.2 years based on isotope analysis in the upper 49 feet of aquifer material studied.

As discussed in Section 3.5, low concentrations of MNX, DNX, and TNX were detected and provide direct evidence that some in-situ RDX transformation is occurring via biotic and abiotic processes. In general, the large-scale RDX plumes in the subsurface are not undergoing significant natural biodegradation; therefore, a long half-life of 65 years was used based on professional judgment (this is the same value estimated for the Blaine Naval Ammunition Depot site in Hastings, Nebraska [URS, 2004b]).

4.0 GROUNDWATER MODEL CONSTRUCTION

The following sections provide details of the code, model domain and grid, model layers and boundary conditions for the GWM12. Details of the current model and comparison to previous models and data utilized for the GWM12 are documented.

4.1 Code Selection

The MODFLOW-2005 code (Harbaugh, 2005), a three-dimensional, finite difference groundwater flow computer code, was selected to update the Site groundwater flow model (the MODFLOW-2000 code was used for the GWM10). MODFLOW-2005 is a widely used, public domain groundwater flow code that is accepted by academia, industry, and regulatory agencies and is currently being supported by the USGS. MODPATH (Pollock, 1989), a particle tracking code, was selected to evaluate flow paths during flow model calibration and to assist in the transport model history matching. The three-dimensional finite difference groundwater fate and transport code, MT3DMS, (Zheng and Wang, 1998), was selected to simulate plume migration. Pre- and post-processing was performed using Groundwater Vistas Version 6 (Rumbaugh and Rumbaugh, 2011).

4.2 Model Domain and Grid

The numerical model domain covers a rectangular area of 200 square miles, as shown on Figure 4-1. The model domain is much larger than the 40 square mile area encompassing the Site plumes. The selection of a larger model domain allows:

- Use of the natural boundaries as model boundaries to reduce potential boundary effects on simulation of remedial alternatives in the plume area.
- Simulation of stream-aquifer interactions that have a significant impact on the groundwater system.
- Simulation of contingency scenarios related to the increase of groundwater extraction at the M.U.D and LWS well fields in the future.

The model origin (lower-left corner) is located at X= 2,590,000 ft and Y = 460,000 ft in Nebraska State Plane North American Datum of 1983 coordinates. There is no rotation of the model grid.

The active model domain comprises portions of the Platte Valley aquifer, the Todd Valley aquifer, the Wahoo Valley aquifer, and the Uplands aquifer. Areas outside of these permeable units, the uplands southwest of Wahoo Creek and the uplands east of the Platte River, are defined as inactive areas using no-flow model cells.

The model cell size ranges from 50 ft by 50 ft around the Site extraction wells and focused extraction wells to 100 ft by 100 ft in the plume areas, and increases to 400 ft by 400 ft in the areas near the model boundaries. The model has 442 rows and 521 columns with a total of 631,068 active model cells.

4.3 Model Layers

The vertical discretization of the model generally reflects the subsurface geometry of the principal geologic units that overlie the bedrock. There are three layers in the model. Layer 1, the uppermost layer, simulates the low permeability materials immediately below ground surface, including the Peoria Loess in Todd Valley (loess) and the till uplands; and the Platte Valley and Wahoo Valley overbank fines (fines). Layers 2 and 3 simulate the principal aquifer, which in various portions of the model consists of the Todd Valley alluvium, the Platte Valley alluvium, the Wahoo Valley alluvium, or the Uplands aquifer. Figure 4-2 shows three cross-sections of the vertical discretization along two model rows and one model column.

4.3.1 Layer 1

The topographic surface (Figure 2-2) is used as the top of Layer 1 and is the same as that presented in the GWM10.

The bottom of the loess and the bottom of the overbank fines (Figure 2-3) are used to define the bottom of Layer 1. In most of the Platte Valley the overbank fines are saturated. The low permeability overbank fines act as a leaky confining unit that impedes but does not prevent upward groundwater flow from the Platte Valley aquifer to the ground surface.

In the Todd Valley and the till uplands area, the bottom of the loess/fine alluvium is much higher than the groundwater table (Figure 4-2); thus, the loess/fine alluvium is unsaturated (i.e., Layer 1 is dry in these areas). In the Wahoo Valley, the fine alluvium is relatively thick in the area south and southeast of the LL1 TCE plume; thus, Layer 1 in this area is saturated. However, Layer 1 in most of the Wahoo Valley is unsaturated.

4.3.2 Layers 2 and 3

Layers 2 and 3 simulate the Platte Valley alluvium, Todd Valley alluvium, Wahoo Valley alluvium, and the till and fluvio-glacial deposits in the uplands. The underlying bedrock surface (Figure 2-2), which was revised based on the borings drilled during 2011 and 2012 (Section 2.2.1), is set as the bottom of Layer 3. There is no distinct geologic characteristic that distinguishes the upper from the lower portion of the aquifers. The bottom of Layer 2 separates the shallow and intermediate monitoring intervals in the plume areas, and is approximately at the middle of the saturated thickness of the alluvial aquifer.

4.4 Boundary Conditions

The model boundary conditions (Figures 4-3 through 4-5) represent the hydrologic interactions between areas inside and outside of the model domain and the interactions between surface water and groundwater.

4.4.1 Rivers

The Platte River, the Elkhorn River, Wahoo Creek, and Silver Creek (Section 2.4) are simulated in Layer 2 (Figure 4-4) using the MODFLOW River package (Harbaugh *et al*, 2000).

4.4.1.1 Platte River

A detailed description of the development of the Platte River boundary conditions is presented in the GWM08. The width of Platte River varies from 1,500 ft to 3,000 ft in the study area, as shown on Figure 1-2. The river width is simulated using three to seven model cells. Each river cell is approximately 400 ft wide. The riverbed of the Platte River is sandy, and is assumed to be physically connected to the sand and gravel beds in the Platte Valley alluvium. Thus, the river cells are specified and simulated in Layer 2 (Figure 4-4), and Layer 1 is not relevant in the area of the Platte River.

The LWS well field, located near Ashland next to the Platte River, extracts approximately 40 MGD of groundwater (Table 2-17), most of which is derived indirectly from the Platte River. The M.U.D. Platte West well field near Venice also indirectly derives much of its supply from the Platte River. The amount of water lost from or gained by the river because of well field pumping is only a small fraction of the total river flow (Section 2.4.1); therefore, pumping in these well fields is not expected to significantly change the stage of the Platte River.

The Platte River stage dropped significantly in late summer 2012 (Figure 2-9). Water levels in wells in the Platte River dropped from a gage height of 12 ft in August 2011 to a gage height of approximately 9.6 ft in August 2012. During initial model runs, the water levels in the Platte Valley were observed to be much lower than the computed levels; therefore, several parameters were changed including the stage of the Platte River in the stress periods corresponding to the lower Platte River stage. The stage of the Platte River was lowered 1.5 ft for Stress Periods 23, 24, and 25. This was the only change to the Platte River Boundary condition for the 2012 model calibration runs. The Platte River stage was held constant in forward simulation runs discussed in Section 6.

4.4.1.2 Elkhorn River

The Elkhorn River (Section 2.4.2) has a sandy/silty riverbed, and is specified and simulated with river cells in Layer 2 (Figure 4-4). The river width is generally simulated using one or two river cells. Riverbed conductance was not revised during this 2012 model update. Flow statistics presented in Section 2.4.2 indicated low water levels during the summer 2012; therefore, the stage was adjusted with the Platte River adjustments described above.

4.4.1.3 Wahoo Creek

Wahoo Creek, because of its relatively high flow rate (Section 2.4.5), is simulated using the MODFLOW River package. Along its course, Wahoo Creek may vary between a gaining or losing stream. Using the river package allows the stream-aquifer interactions to be simulated in two directions (gaining or losing). The riverbed conductance was previously calibrated to approximately match the estimated rate of base flow along the creek used in the GWM06 (URS, 2007).

4.4.1.4 Silver Creek

Silver Creek is also simulated using the MODFLOW River package. Silver Creek is simulated in Layer 2, because the creek and aquifer are thought to communicate directly. The stream stage

elevation and the conductance of Silver Creek remains the same as was presented in the GWM10.

4.4.1.5 Open Water Bodies

Other water bodies, such as sand pits near the LWS Ashland well field, Memphis Lake, and LPNNRD Reservoir (Figure 1-2), are simulated using river cells (Figure 4-4). The conductance and surface water stages remain the same as presented in the GWM10, except for the sand pits near the LWS Ashland well field, which were adjusted in the same manner as the Platte River.

4.4.2 Creeks

Clear Creek and Johnson Creek (Sections 2.4.3 and 2.4.4) are simulated using the MODFLOW Drain package. They are simulated in Layer 1 (Figure 4-3) because it was determined that the creeks directly communicate with the overbank fines, rather than the underlying aquifer. This suggests that Johnson Creek and Clear Creek flow through the overbank fines without direct communication with the underlying sand and gravel aquifer (GWM08).

The streambed conductance of the creeks was calibrated in the GWM08 based on an understanding that the direct hydraulic communication between the creeks and the overbank fines is limited. The leakage rate from the clay silty loam is small because of the low permeability of the overbank fines and the small creek dimensions and was not updated in the GWM12.

The bottom elevations of the drain cells of the creeks were specified using the surface water stages measured in March 2007 and 2009/2010, but are similar to the values measured in 2011 and 2012 (Table 2-5).

4.4.3 Drain Tiles and Seeps

The agricultural drain tiles and seeps (Section 2.7) in the Johnson Creek area are simulated in Layer 1 using the MODFLOW Drain package (Figure 4-3).

The simulated drain and seep area remains the same as presented in the GWM10. The area east of Johnson Creek, where field observations indicate that culverts connected to drain tiles on the east side of Johnson Creek discharge to the creek, is simulated as drain cells. As indicated by the field drain tile and seep flow measurements presented in the GWM08, most of the upward groundwater flow discharges in the area west of Johnson Creek and only minor flow discharges in the area east of Johnson Creek.

The conductance of the drain cells is assumed to be generally proportional to the size of the model cell and the vertical hydraulic conductivity of the overbank fines. The drain tile elevations are not known exactly but are generally 2 to 3 ft bgs. Both conductance and the bottom of the drain cells were calibrated as part of GWM08 to match the measured drain tile flow rates and were not updated in GWM10.

4.4.4 General Head Boundaries

The northern and southern model boundaries for Layers 2 and 3 are simulated using general head boundaries, as shown on Figures 4-4 and 4-5. Use of general head boundaries instead of constant head boundaries provides reasonable boundary fluxes in and out of the model domain when stresses within the model domain increase. The general head values are specified using the interpreted groundwater elevation contours from CENWK and M.U.D. Minor changes to the northern general head boundaries were implemented during the GWM12 calibration process; however, no changes to the conductance of the boundary were made. These changes were implemented because supplementary monitoring well measurements from M.U.D. and LPNNRD provided additional information on the water levels along the northern model boundary.

The external boundaries for Layer 1 are not specified (Figure 4-3), meaning they are no-flow boundaries by default. The flow in the silt/clay overbank deposits is primarily vertical, either downward in the upland groundwater recharge areas, or upward in the valley lowlands because of discharge from the Platte Valley alluvium and the Wahoo Valley alluvium.

4.4.5 No-Flow Boundaries

The loess-mantled till uplands southwest of the Wahoo Valley and east of the Platte and Elkhorn rivers are the natural boundaries of the Wahoo Valley aquifer and the Platte Valley aquifer, respectively (Figures 4-4 through 4-5). Thus, they are excluded from the active model domain. No hydraulic data is available for the loess-mantled till uplands; however, the few irrigation wells in the area indicates that the permeability in the uplands is much lower than the major alluvial aquifers included in the active model domain. This is consistent with the GWM10.

The loess-mantled till uplands southwest of the Wahoo Valley are separated from the area of interest (i.e., the area encompassing the Site contaminant plumes) by Wahoo Creek and Silver Creek, which are largely gaining streams. The potentiometric surface in the Wahoo Valley shows that groundwater flow is primarily parallel to the axis of the valley. Flow from the loess-mantled till uplands, if any, would likely discharge to Wahoo Creek. The amount of flow is expected to be limited based on the relatively low transmissivity postulated by the University of Nebraska Conservation and Survey Division (CSD, 2005). Consistent with previous model versions, the loess-mantled till uplands southwest of Wahoo Creek, and east of the Elkhorn and Platte Rivers are simulated as an inactive area using no-flow cells in the GWM12.

The western edge of the model in the northwest corner is defined as a no-flow boundary. Flow is generally parallel to this edge of the model in this area. Furthermore, the western edge of the model is separated from the area of interest by Sand Creek, a gaining stream which parallels the edge of the model.

In addition to the No-Flow boundaries, Layer 1 contains multiple cells that start out “dry” for each simulation. These “dry” cells were converted to no-flow cells during the 2012 model simulations to enhance model convergence and processing.

5.0 GROUNDWATER FLOW MODEL CALIBRATION

Groundwater flow model calibration is the process of adjusting model parameters (i.e., hydraulic conductivity, recharge, or boundary conditions) until simulated observations (water levels, drawdown, etc.) match measured observations as closely as possible. The previous model, GWM10, was calibrated using both steady state and transient conditions and sensitivity analysis was conducted over a period of several years. The GWM10 sensitivity analysis indicated hydraulic conductivity, evapotranspiration parameters and recharge were the most sensitive parameters. The GWM12 calibration focused on minor modifications to these sensitive parameters based on new information since 2010. The following sections describe the 2012 flow model calibration process.

5.1 Groundwater Flow Model Calibration Approach

The groundwater flow model calibration approach requires estimation of hydrologic and hydraulic parameters. The hydrologic parameters estimated include groundwater recharge and evapotranspiration rates. The hydraulic parameters estimated primarily included horizontal hydraulic conductivity distribution, and vertical anisotropy or vertical hydraulic conductivity (K_z).

The calibration process involved adjusting hydraulic parameters within reasonable ranges based on geologic material type and aquifer tests to match measured calibration targets. The total number of water levels from observation and monitoring wells that are included in the 2012 calibration is 412.

The calibration targets for this 2012 model update included:

- Measured groundwater elevations.
- Transient variation of groundwater elevations, including Site extraction well operations (e.g., EW-1R replacement).
- Measured vertical gradients at monitoring well clusters and piezometers.
- Flow direction based on plume orientation.
- Plume migration directions as the direction relates to advection.

5.2 Calibration

Flow model calibration goals included:

1. A mass balance error less than 1% of the water budget.
2. An absolute residual mean error of less than 5% of the range of water level measurements.
3. No trend or spatial bias with the residuals.
4. A reasonable qualitative match of model-simulated potentiometric surface and observed potentiometric surface within the area of the plumes (evaluated by comparing contours).
5. A qualitative similarity between water level changes observed in monitoring wells and observation wells and simulated water levels over time (evaluated graphically).

5.2.1 Calibration Procedure

Because the GWM10 model was extensively calibrated using steady state and transient conditions and sensitivity analysis, the GWM12 flow model calibration focused on transient conditions. The GWM12 was calibrated under transient conditions using a mix of professional judgment and the automated parameter estimation code (Doherty, 2010). Additional aquifer tests, at EW-1/EW-1R and one at TH-EW-17, provided updated estimates of hydraulic conductivity, a very sensitive parameter in this model. Therefore, the calibration focused on refining the hydraulic conductivity array in the pump test areas. Other modifications were made to the model based on hydrologic conditions discussed in Section 4. Flow model calibration results were compared to both analytically estimated hydraulic conductivity (K) data and the water table configuration. Adjustments were made in order to achieve one or more of the calibration goals.

Recharge and ET values and river stages for each stress period were adjusted manually based upon precipitation and ET data, river stage data and changes in observed water levels.

5.2.2 Simulation Periods

The simulation time frame for the GWM12 calibration starts on August 26, 2010 and ends on October 31, 2012. The entire period includes 29 stress periods. The multiplier for the time steps is 1.2 (the time step multiplier is the ratio of the length of each time step to that of the preceding time step). The simulation periods and the dates are provided in Table 5-1.

5.2.3 Groundwater Extraction

Actual extraction well, focused extraction well, and irrigation well flow rates were averaged for each stress period as discussed in Section 2.7. The exceptions to this are the irrigation wells without measured pumping rates. Pumping rates for non-metered irrigation wells were initially estimated using the registered acreage, and the average net irrigation requirement as described in GWM08. The average rates for these wells are adjusted based on the average increase or decrease in the ARDC metered wells. In 2011, irrigation rates in metered ARDC wells were 51% of the 2008 average, and in 2012 were 141% of the 2008 average (GWM08 and ARDC, 2013). For non-ARDC wells (i.e., wells without meters), irrigation rates for 2011 were then estimated to be 51% of the 2008 rate, and irrigation rates for 2012 were estimated to be 141% of the 2008 rate, based on the changes observed in the ARDC metered wells. For the non-metered irrigation wells, the rates presented in Table 2-19 were used.

5.2.4 Calibration Targets

Calibration targets primarily included measured water levels between August 26, 2010 and August 26, 2012. Measured water levels from 2011 to 2012 are shown on Table 2-5. Measured vertical gradients at monitoring well clusters and piezometers, flow direction based on plume orientation, and transient variations of groundwater elevations (including responses to the Site extraction well and focused extraction well operations) were included as flow model calibration criteria.

5.3 Calibration Results

GWM12 calibration results were detailed using a model water budget and comparison to hydraulic heads, as described below.

5.3.1 Model Water Budget

The first model calibration goal is to evaluate the mass balance error. A model-simulated water budget provides a "big picture" allocation of flow rates and volumes from various sources within the simulated hydrogeologic system. Even though there is limited direct measurement of the water budget component for comparison, the simulated water budget can be evaluated as to whether it is reasonable compared to the conceptual model understanding of inflow and outflow.

Major inflows to the aquifer consist of flow from the Platte River, precipitation recharge, and flow from the northern portion of the model (represented as the general head boundary). Major outflows from the aquifer include municipal supply well, extraction well and irrigation well pumping (in only transient time steps); flow from the aquifer to the rivers, creeks, and drains; evapotranspiration; and flow to the southern model boundary (also a general head boundary). The percent error in the water budget is significantly less than 1% indicating a stable model solution. Therefore, the model meets the first calibration goal.

The transient water budget for the period August 2010 to October 2012 is presented on Figure 5-1. Positive values represent inflow to the water budget domain and negative values represent outflow from the water budget domain.

In Figure 5-1, storage outflow refers to the amount of water that is released from aquifer storage, while storage inflow refers to the amount of water that goes into aquifer storage. At the beginning of the irrigation season, storage outflow increases sharply and then decreases with time, meaning the amount of water coming out of aquifer storage increases sharply as water levels drop suddenly when irrigation pumping starts. Once pumping stabilizes, additional water coming out of storage is reduced. Immediately after the end of the irrigation season, the amount of storage inflow (the amount of water going into aquifer storage) increases sharply, meaning aquifer storage and water levels recover quickly. During the non-irrigation season recovery period, the rate of storage outflow gradually decreases. Figure 5-1 presents the simulated transient water budget for the GWM12 (August 2010-August 2012). The mass balance error for each of the stress periods was less than 1%.

The most significant outflow from the model domain is from wells. During the non-irrigation season, the well outflow primarily includes pumping at the M.U.D. and LWS well fields and the Site extraction and focused extraction wells. During the irrigation season, the total well outflow more than doubles as the result of irrigation pumping. The next major outflow is ET, which includes ET from the phreatophyte zone along the rivers and ET from the Platte Valley. Other minor outflows include general head boundary cell outflow, drain cell outflow, and river cell outflow.

Groundwater recharge is the largest source of inflow to the aquifer. The GWM12 recharge rate was varied for each stress period based on changes in precipitation. The other major source of

water to the aquifer is river inflow, primarily from the Platte River. The rate of river cell inflow varies with time, increasing during the irrigation season and decreasing during the non-irrigation season.

5.3.2 Comparison of Hydraulic Heads

Comparison of observed heads and simulated heads was completed in several different manners including direct measurements versus simulated values, changes over time, and an evaluation of the simulated potentiometric surface versus the measured potentiometric surface.

5.3.2.1 Residuals

Evaluation of an absolute residual mean error is the second criteria used to evaluate flow model calibration listed in Section 5.2. Water level measurements from over 400 wells, including CENWK monitoring and observation wells (in shallow and intermediate layers), LPNNRD, LWS, M.U.D., and USGS monitoring wells were used as the calibration targets. Well locations are shown on Figures 2-5 through 2-8. The observed water levels at these wells are listed in Table 2-3.

Simulated and observed hydraulic heads for the initial stress period are compared in Table 5-2. One of the industry standard goals for groundwater flow model calibration (the second calibration goal) is that the absolute residual mean error is less than 5% of the range in water level measurements. As shown in Table 5-2, the absolute value of the residual mean divided by the range of hydraulic head values within the model domain (denoted as "Scaled Abs. Mean" in Table 5-2) is less than 1% for the first GWM12 time step. The residual mean for this time step is below 0.05 ft. These statistics indicate an acceptable calibration.

Calibration statistics for all time periods are plotted on Figure 5-2. Calibration statistics for the remaining transient time step results are presented in Tables 5-3 through 5-6. For each measurement event of the GWM12, the absolute residual mean error met the goal of being under 5% of the range of water level measurements. The actual values range between less than 1% and 1.2%.

The third calibration goal is to verify that the residuals have no apparent spatial trend or bias. Residuals of simulated and observed hydraulic heads are plotted and posted for August 2010 and March 2012 on Figure 5-3. The matches between the observed and simulated heads at CENWK wells as shown on Figure 5-3 indicate residuals are generally within one foot near the active extraction wells. The head matches at the other wells vary, depending on their locations. Some wells are located in the heavy pumping area, such as the LWS well field, where the simulated groundwater elevations may not match the observed elevations because the assumed seasonal average pumping rate at individual wells used in the model may not be the same as the actual pumping rate at the time of the water level measurements.

In addition, simulated and observed heads in some wells located in the northern Till Uplands aquifer may not match well as there are only a small number of measurements and the information on the lithology and/or hydrostratigraphy is limited. Some measurements from wells that are close to each other have large differences in groundwater elevations, such as

several monitoring wells in the southern end of LWS well field. At the margins of the model the residuals are larger; therefore the model may be less accurate at the model margins. However, within the Site boundary where model accuracy is most important the majority of the residuals are small indicating a reasonable calibration of the GWM12.

The fourth calibration goal is to compare the model-simulated potentiometric surface and observed potentiometric surface within the area of the plumes. The simulated and observed potentiometric surfaces of the intermediate aquifer from March 2012 are presented on Figure 5-4. The overall simulated surface is similar to the observed, with some differences due to data density, such as in the Till Upland where observed water level data is sparse. This comparison also indicates an acceptable calibration of GWM12.

5.3.2.2 Comparison of Simulated Hydrographs

The fifth calibration goal is to compare observed and simulated water levels over time. For the GWM12, the simulated and observed groundwater hydrographs were compared to CENWK monitoring wells. Comparison at CENWK monitoring wells focused on evaluating the change of regional groundwater levels in relation to the estimated seasonal groundwater recharge and changes in pumping. Comparison at CENWK observation wells focused on verification of the calibrated hydraulic conductivities in the vicinity of the Site extraction wells or focused extraction wells.

CENWK hydrographs for selected monitoring wells are presented in Figure 5-5a through Figure 5-5l. The simulated and observed water level changes over time have a close match in many of the wells, suggesting the GWM12 accurately represents changes in recharge and extraction well pumping.

The observed water levels recorded by a transducer show variations due to Platte River stage and daily changes in M.U.D. pumping rates. However, the simulated water levels follow the general trend of the M.U.D. water levels indicating an acceptable calibration.

5.4 Calibrated Hydraulic Parameters

During the process of calibration for GWM10 hydraulic conductivity, transient values for recharge and ET were varied. Hydraulic conductivity values were varied during calibration based on the model layer, geology and existing aquifer test data. As part of the calibration process, recharge values were varied between 20% and 27% of the total precipitation in a stress period which is between 0 ft/day to 0.01 ft/day (00.12 inches per day). This percentage of precipitation is based upon published studies discussed in Section 2.8 and is in the same range as previous model updates. ET values during calibration were varied between 0.0005 ft/day to 0.096 ft/day in the Todd Valley and Platte Valley, which is within the range of values presented in Tables 2-13 to 2-15. ET values were higher in the phreatophyte zone and were varied between 0.0025 ft/day and 0.0288 ft/day during calibration.

5.4.1 Calibrated Hydraulic Conductivity Distribution

No changes were made to the hydraulic conductivity of Layer 1 from GWM08. The hydraulic conductivity of overbank fines of Layer 1 is 1 ft/day. Layer 1 is only active in a small portion of the model domain, to represent shallow groundwater in the Platte Valley, and there are few targets. The model calibration was based on the comparison of the measured flow rates and the model simulated flow rates at the drain tiles discussed in GWM08.

The GWM12 calibrated hydraulic conductivity array is presented with Figures 5-6 and 5-7. The hydraulic conductivity values in Layer 2 in the area southwest of the former landfill are lower than in Layer 3. This is based on boring logs, slug tests and the results of the HEM survey (ECC and BMcD, 2013). The estimated hydraulic conductivities vary between 10 ft/day and 600 ft/day over the entire model domain. The hydraulic conductivity in the Platte Valley is high, ranging from 240 ft/day to 600 ft/day with a majority of the area ranging between 550 and 600 ft/day. These values are consistent with the LWS and the M.U.D. pumping results, as well as previous versions of the Site model and other modeling reports. Near the eastern boundary of the Todd Valley aquifer near the confluence of Johnson and Clear Creeks (partly in the Platte Valley and partly in the Todd Valley), the hydraulic conductivity is also high, approximately 400 ft/day, and is consistent with previous pumping test results at EW-1/EW-1R and EW-2.

In the Todd Valley aquifer, hydraulic conductivity generally varies from 55 ft/day to 350 ft/day. The hydraulic conductivity array for the GWM12 was updated near the extraction wells during the calibration process based upon extraction well operational changes, observed water levels and calibration results.

In the Wahoo Valley aquifer, the estimated hydraulic conductivity ranges between 80 ft/day and 150 ft/day. However, the numerous drawdowns measured from previous pumping tests at the observation and monitoring wells near EW-12 and EW-13 (located at the boundary of the Wahoo Valley aquifer and the Todd Valley aquifer) result in an estimated hydraulic conductivity value as low as 20 ft/day and 10 ft/day, respectively (ECC, 2009). As part of the installation of EW-17, pumping tests were conducted at TH-EW-17, which indicated higher conductivities in the vicinity of this test hole. Aquifer pumping tests from EW-17 were not available for the model calibration; however, the estimated hydraulic conductivity in the TH-EW-17 area is around 50 ft/day. The estimated aquifer heterogeneity in this area is not fully represented in the GWM12, and the hydraulic conductivities used are considered areal averages.

The hydraulic conductivity was adjusted during the calibration process for GWM12 in the Till Uplands. The amount of stratigraphic and hydraulic data is small compared to the other aquifers in the model area. The estimated hydraulic conductivity for the Till Uplands aquifer ranges between 25 ft/day and 230 ft/day, and these values should be considered approximate for these heterogeneous strata.

The horizontal to vertical anisotropy ratio was assumed to be 10:1 for all layers in the calibrated model. Sensitivity analysis was conducted for GWM10 using a horizontal to vertical hydraulic conductivity ratio of 1:1 and 100:1 for model Layers 2 and 3 (see Table 5-7). The simulated hydraulic heads and fluxes in the steady-state model are relatively insensitive to changes in the anisotropy ratio for Layers 2 and 3. The insensitivity of the groundwater flow model results to

vertical anisotropy ratio is primarily because Layers 2 and 3 are one aquifer and the vertical head difference between the two layers is minor (a few percent of a foot). Relatively strong and consistent vertical hydraulic gradients in the Todd Valley Aquifer only exist in a few locations (Section 2.7.2), including downward gradients south of the LPNNRD reservoir as observed at MW-53, MW-54, and MW-55 and downward gradients in some wells in the vicinity of the extraction wells. With an increase of vertical anisotropy ratio in this area to 100:1, the simulation results are slightly improved, but still do not closely match the observed heads at these well clusters.

5.4.2 Calibrated Recharge

The amount of precipitation that recharges the aquifer is equal to the total precipitation minus runoff, evaporation to the atmosphere, transpiration by plants, and the amount of moisture captured and stored in the unsaturated zone. The percentage of total precipitation that results in recharge is also a function of rate of rainfall, terrain, soil parameters, vegetation type, and climatic variables (solar intensity, temperature, relative humidity, etc). Direct measurement of the recharge to groundwater is generally not possible on a regional scale. However, published studies provide estimates for the Saunders County area ranging from 3.5 to 4.3 inches/year, with the long-term mean total recharge ranging from 3.9 to 5.9 inches/year (Szilagyi and Jozsa, 2009). This is compared to the total annual precipitation at the Ashland and Mead stations of approximately 28 inches per year (Section 2.5.1). This suggests that the long-term average recharge is approximately between 12 and 21 percent of precipitation. The percentage of recharge likely exceeds the mean in wet years, because although there may be more runoff, a smaller percentage of infiltration is evaporated, absorbed as soil moisture, or transpired by vegetation.

Review of the Site-Wide groundwater hydrographs conducted during the GWM12 suggest that groundwater recharge for 2007 through 2010 was higher than average. The percentage of recharge varied between 20% and 27% of precipitation based on model calibration during these stress periods. Groundwater recharge rates were varied during each stress period to account for changes in precipitation in order to match observed changes in water levels for the GWM12. Recharge rates were initially estimated based on the precipitation data (Tables 2-7 though 2-11) and adjusted through trial and error by comparison of simulated and observed Site-Wide groundwater level fluctuations. Seasonal recharge rates were initially estimated in the Todd Valley, and applied to the Platte Valley based upon professional judgment and model calibration results. The estimated recharge rates for the 29 stress periods are presented in Table 5-8.

5.4.3 Evapotranspiration

Groundwater ET occurs in the overbank fines of the Platte Valley and the Wahoo Valley because of the shallow depth to groundwater. The low permeability of the overbank fines also enhances groundwater ET (Bouwer, 1979). The depth to groundwater in the Platte Valley and the Wahoo Valley varies from less than one foot to a few feet bgs. The depths to water in the Todd Valley are much deeper (approximately 40 to 70 ft bgs) and, therefore, ET is not a significant water budget parameter because the extinction depth (i.e., the depth at which groundwater ET is zero) is assumed to be 6 ft bgs (Bouwer, 1978). A phreatophyte zone along the Platte River and the Elkhorn River is simulated in GMW12 and corresponds to a higher ET. The distribution of ET is

similar to the regional scale ET estimation produced by Szilagyi (2009 and 2010). As shown in Figure 2-11, the ET varies over the course of the year with the highest ET in the summer months. Groundwater ET was varied by stress period and is presented in Table 5-8.

5.4.4 Calibrated Storage Coefficient

The estimated specific yield, specific storage, and effective porosity from the calibration are summarized in Table 5-9 and, although different ranges were tested during the calibration, the final parameters remained the same as the GWM10. These values of specific yield and effective porosity are within published ranges for similar materials (Freeze and Cherry, 1979). The value for specific storage is similar to the pumping test results at EW-1, EW-13, EW-14, FEW-15 and EW-16 (Appendix A). Decreases in the specific storage values tend to cause more rapid increases and decreases in groundwater levels in transient simulations.

5.4.5 Calibrated River Boundary Conductance

The boundary conductance for the Platte River, Elkhorn River, and Wahoo Creek were not modified during this 2012 model update. Sensitivity analyses conducted on previous versions of the Site groundwater models suggest that conductance is a relatively insensitive parameter; therefore, it was not modified for the GWM12.

5.5 Sensitivity Analysis

Based on the "Standard Guide for Conducting a Sensitivity Analysis for a Ground-Water Flow Model Application" (American Society for Testing and Materials, 1994), the purpose of a sensitivity analysis is to assess the adequacy of the model with respect to its intended function. In general, the sensitivity process identifies model inputs that are likely to affect calibration residuals and/or the model results based on the predictive simulations. The model calibration process described in the previous sections of this groundwater model update is actually a continuous sensitivity analysis process to identify the sensitive input parameters that reduce the model calibration residuals. For the previous model calibration, the most sensitive parameters were hydraulic conductivity in Layers 2 and 3, followed by recharge, ET, ET extinction depth, and groundwater recharge, respectively. The less sensitive parameters included the riverbed conductance of Wahoo Creek and the Elkhorn River because of their significant distance from the area of interest, where data are most concentrated. Previous model sensitivity analysis results were the rational for not modifying the conductance of the river cells and general head boundary cells during the GWM12 calibration process.

To quantify the effect of change in model parameters on the GWM12 calibration results, sensitivity analyses were conducted. The GWM12 parameters selected for systematic sensitivity analysis included hydraulic conductivity, ET, recharge, and anisotropy. Sensitivity analysis of anisotropy was discussed in Section 5.4.1. Typically, hydraulic conductivity is one of the most sensitive parameters, as is the case for this model. Increasing or decreasing the entire hydraulic conductivity equally across the model by 10% changed the model calibration statistics slightly; however, during the calibration process, simulation results indicated that modifying the distribution of hydraulic conductivity at select locations has a much greater impact on model calibration.

During the GWM12 calibration, recharge and ET were determined to be very sensitive parameters. Table 5-7 shows the sensitivity of recharge and ET on the final transient time step. In general, a decrease in recharge caused a decrease in groundwater levels and vice versa.

Further sensitivity analysis related to predictive simulations is discussed in Section 7.

6.0 GROUNDWATER SOLUTE TRANSPORT MODEL

There is a great deal of uncertainty associated with the timing and quantity of contaminant releases at the Site. A quasi-calibration of the groundwater plumes using history matching was performed in GWM10 and GWM12 to address some of this uncertainty; however, because of the number of unknowns this history matching provides an estimate given current data.

The previous model updates have used a combination of particle tracking and transport simulations for history matching of plume migration pathways and plume migration on a Site-Wide scale and in specific areas of the Site. The current understanding of the plume migration pathways is generally consistent with the GWM10, thus the GWM12 updates primarily focused on the LL1 TCE plume and LL2 RDX plume predictive models. Recent investigations and trends in extraction well concentrations indicated refinements were needed in the simulation of the LL2 RDX plume.

6.1 Computation Algorithm

The hybrid method of characteristics (HMOC) was used during transport simulations. MT3DMS offers five computation algorithms and states that "no single numerical technique has been shown to be effective for all transport conditions" (Zheng and Wang, 1998). HMOC is a hybrid of the method of characteristics (which was used in GWM08) and the modified method of characteristics. The HMOC solution combines the strength of the method of characteristics for reducing numerical dispersion with the computational efficiency of the modified method of characteristics. The mass budget error for the HMOC runs was approximately one percent, which is acceptable based on industry standards. Under most algorithms, some numerical dispersion and error is expected. However, the largest source of error for predictive modeling relates to uncertainty in the conceptual model of transport (Konikow, 2011) (i.e. lack of knowledge about the timing, quantity and location releases).

6.2 Transport Parameters

The fate and transport parameters include dispersivity, soil-water distribution coefficient (K_d), porosity, and biodegradation half-life. The values used for these parameters in the GWM12 are consistent with GWM10 and are presented in Table 6-1 and Table 5-9.

As discussed in previous model updates, small transverse dispersivity values were required to match the plume shapes because the observed plumes, especially the high concentration zones, are very narrow in comparison to their lengths. A biodegradation half-life of 65 years was used in the GWM12 for TCE, which is consistent with previous model updates and with Site data (discussed in Section 3.6.6). Field data indicates very little degradation is occurring within the TCE plumes.

Consistent with the GMW10 and discussed in the preceding section, the retardation of the plumes is significant, and variations in K_d were made in GWM12 to match observed data. As discussed in Section 3.6.5 and based on f_{oc} values, the estimated K_d for TCE at the Site ranges between 0.024 L/kg and 0.4 L/kg. The TCE K_d values used in the leading edge of the plume are within this range. Yamamoto, et al. (2004) reported that the estimated RDX K_d values in a sandy

alluvial aquifer at the Massachusetts Military Reservation varied from 0.072 L/kg in the deep soil to 0.37 L/kg (adsorption) and 1.5 L/kg (desorption) in the surficial soil, respectively. The K_d values used for the RDX simulations are within this published range. Local variations in K_d simulate possible remaining historic high concentration area residuals and heterogeneous geologic conditions.

6.3 Quasi-Calibration

Solute transport simulations were conducted to verify the fate and transport parameters used in the GWM10 and to attempt to simulate the historical migration directions, extents, and contaminant distribution within each of the Site contaminant plumes.

The advection of the plumes is dependent upon calibrated parameters of the flow field such as hydraulic conductivity, effective porosity, recharge, and boundary conditions and the operation of irrigation wells and other wells in the vicinity of the plumes. However, the simulated extents and concentrations of the plumes are highly dependent on the assumed number, locations, extents, timing, volumes, and concentrations of the assumed releases to groundwater, as well as the assumed retardation and dispersion.

To perform the history matching of the plume migration, assumptions about the high concentration (release) areas were necessary. Because nothing is known about the releases, the locations, timing, and concentrations of hypothetical sources had to be assumed in order to perform transport calibration through history matching. In the history matching simulations conducted in the GWM10 and the GWM12, constant or decreasing concentrations were applied in the transport model at the suspected release areas that are discussed in Section 3.0. The simulated sources are based on the assumed release time and the K_d was adjusted at the source area to simulate retardation.

There is no unique solution when performing history matching of the plume trends. History matching results likely can be re-created using several different assumptions of specified concentration cells with different locations, levels, and timing. Thus, the specified concentration cells cannot be considered to represent the actual historic high concentration areas, but are only hypothetical starting conditions that present one of many possible non-unique solutions for approximating the observed plumes. The actual historic high concentration area conditions are complex, and the precise location, quantity, and variation over time of the historic high concentration areas cannot be known with certainty. Thus, history matching is not an attempt to identify the exact historic high concentration area conditions through modeling, but rather an attempt to quasi-calibrate the transport model via simulating the current plumes (general extent, concentrations, etc.) through a best estimate of the release(s) based on site-specific knowledge and professional judgment.

Multiple history matching simulations were conducted as part of the GWM10. The history matching simulations conducted for GWM10 and GWM12 are discussed in the following sections.

6.3.1 GWM10 History Matching Simulation Summary

History matching was discussed for all plumes in GWM10 and history matching simulations performed in the GWM10 and not updated GWM12 are discussed in the following subsections. Updated history matching simulations performed as part of GWM12 are discussed in Section 6.3.3.

LL1 RDX

As presented in Section 3.5.5, the LL1 RDX plume has not completely detached from the suspected historic high concentration area, and no strong concentration gradients exist throughout the plume (i.e., the concentrations at the suspected release area or upgradient are not higher than the concentrations in the downgradient area). A decreasing concentration was used for history matching of the LL1 RDX plume in GWM10. A high concentration area was assumed in the southwestern portion of LL1. The decreasing concentration was applied in Layer 2 across an area extending 500 ft (north/south) by 200 ft (east/west). At the load line area a K_d value was assumed for LL1 in Layers 2 and 3 to simulate RDX sorbing to available organic carbon and RDX that is slowly introduced into the groundwater by infiltration. A K_d of 1.0 L/kg was used in the vicinity of the potential area of historic contaminant release to simulate desorption as discussed in Section 6.1.1 and a K_d of 0.2 L/kg was used throughout the rest of the RDX plume area.

LL2/LL3 TCE Plumes

Current LL2 and LL3 TCE plume interpretations show the highest concentration zones of TCE (approximately 100 µg/L) are located downgradient of LL2 and LL3, indicating that the plumes have detached from the potential release area and the plumes are generally advecting with groundwater flow. No high concentration zones exist for the LL2 and LL3 TCE plumes and little is known about historic activities using TCE at LL2 and LL3; therefore, history matching simulations were not performed for the GWM12 for the LL2 or LL3 TCE plumes.

LL3 RDX

As discussed in Section 3.5.7, the areal concentration distributions of the LL3 RDX plume suggest that a high concentration area is no longer contributing to the LL3 RDX plume; the RDX plume appears to have detached from the load line area. Previous history matching of the LL3 RDX plume was included in the GWM10 and indicated that continual mass input (i.e., specified concentration cells) was not necessary and no modifications have been made to the conceptual understanding of the LL3 RDX plume. Therefore, history matching simulations were not performed for the GWM12 for the LL3 RDX plume.

LL4/AMA TCE

Current LL4/AMA TCE plume interpretations show the highest concentration zones (>1000 µg/L) are located in the upper portion of the aquifer near the AMA and migrate to the lower portion of the aquifer further downgradient. The TCE plume emanating from the Landfill area is characterized by low level concentrations (<100 µg/l) throughout its extent.

As discussed in Section 3.5.3, the conceptual model for TCE transport at LL4/AMA is advection dominated and there is no indication of residual DNAPL. Based on the understanding of historic activities related to the use of TCE at LL4/AMA, the simulations assumed TCE use at LL4/AMA in the late 1950s and early 1960s. In the GWM10, concentrations in specified cells at the AMA and the former Landfill area were decreased over time until they were reduced to non-detect in the 1980s. This assumption provided the best calibration results. No changes have been made to the conceptual model of the LL4/AMA TCE plume; therefore, history matching simulations were not performed for the GWM12 for the LL4/AMA TCE plume.

LL4 RDX

As discussed in Section 3.5.8, the LL4 and Burning Grounds/Proving Grounds area RDX plumes are shorter and lower in concentration than the RDX plumes at the other load lines. The LL4 RDX plume appears to have detached from the LL4 area. Relatively low concentrations (just above the Health Action level of 2 µg/L for RDX) remain in the upper portion of the aquifer at the Burning Grounds/Proving Grounds area and downgradient throughout the plume in the upper and lower portion of the aquifer. Monitoring well results generally show decreasing concentrations throughout the plume. Due to the relatively low concentrations that are present and the decreasing concentration trends, history matching simulations were not performed for the GWM12 for the LL4 and Burning Grounds/Proving Grounds area RDX plumes.

6.3.2 History Matching Simulations

The GWM12 groundwater solute transportation model primarily focused on verifying the LL1 TCE plume transport assumptions and reassessing the LL2 RDX plume transport assumptions. Recent investigations and trends in extraction well concentrations indicated refinements were needed in the simulation of the LL2 RDX plume.

Quasi-calibration goals during the history matching were to:

1) approximate 2012 TCE and RDX iso–concentration contours in the downgradient direction, and
2) generally match the downgradient travel distance of the observed concentration distributions.

6.3.3 History Matching Simulation Results

The GWM12 history matching simulation results generally match the observed migration directions, extents, and concentration distribution of the plumes. However, due to the complexity of field conditions and variations of irrigation well pumping over more than 50 years, the simulated plumes can only mimic the general shape of the observed concentration distributions.

LL1 TCE

As discussed in Section 3.5.1, the conceptual model for TCE transport at LL1 is that groundwater flowing past high concentration zone residuals has leached TCE and created the large-scale TCE plume downgradient of the suspected historic high concentration area. Based on the understanding of historic activities related to the use of TCE at LL1, the GWM12 simulations

assumed TCE use at LL1 from 1959 to 1964. Model simulations were conducted in GWM12 to verify the GWM10 simulations. A decreasing concentration was used for history matching of the LL1 TCE plume, similar to the approach used previously in GWM10. Consistent with the GWM10, the potential area of historic contaminant release was assumed in the southwest side of LL1 in the GWM12 history matching. However, based upon direct-push results from the GMPOI, the area of decreasing concentration was reduced in the GWM12 simulations. In GWM12, the decreasing concentration was applied in Layers 2 and 3 in the model across an area of approximately 100,000 square feet (shown on Figure 6-1). Previous history matching simulations suggested that retardation limits the advective transport of the LL1 TCE plume as well as the other plumes, therefore a K_d was applied to account for the presence of organic carbon. Consistent with the GWM10, a higher K_d value was used in GWM12 to simulate TCE solvent residual with a finite mass that is slowly dissolved or desorbed at the LL1 potential area of historic contaminant release. The GWM12 used K_d values of 0.2 L/kg and 1.0 L/kg at the LL1 potential area of historic contaminant release, which is consistent with GWM10. A uniform K_d value of 0.03 L/kg was used downgradient of the LL1 potential area of historic contaminant release.

The simulated LL1 TCE plume migration after approximately 52 years is shown on Figure 6-1. Comparison of the simulated plume (shown as filled color contours) and the observed plume (the contours from Figures 3-1 and 3-2 shown as unfilled black contour lines) indicates that the contaminant distribution and shape of the simulated plumes are similar to the observed plumes. As depicted on Figure 6-1, the simulated plumes have a long and narrow central zone of high concentrations similar to the observed TCE plumes. The simulated plume is based upon 52 years of plume migration under unknown flow conditions and does not represent actual current conditions. The history matching simulations were conducted in order to determine if any specified concentration cells should be used in predictive modeling as discussed in Section 7.

LL2 RDX

As discussed in Section 3.5.6, the LL2 RDX plume has not completely detached from the suspected historic high concentration area, and no strong concentration gradients exist throughout the plume (i.e., the concentrations at the suspected release area or upgradient are not higher than the concentrations in the downgradient area). Multiple transient model simulations were conducted in order to approximate the concentrations and dimensions of the LL2 RDX plume using long-term irrigation pumping averages and average extraction well pumping for the last ten years of operation (from 2002 to present). Based upon iterative model simulations, the optimal placement of decreasing concentration cells was at LL2 and along the surface water channel or ditch (near MW-65 and MW-66) (Figure 6-2). This configuration of concentrations resulted in an RDX plume with a shape similar in length and approximate dimension to the current understanding of plume dimensions. The simulated plume is based upon 67 years of plume migration under unknown release and groundwater flow conditions and does not represent actual current concentrations. The history matching simulations were conducted in order to determine if any specified concentration cells should be used in predictive modeling as discussed in Section 7.

A decreasing concentration was used for history matching of the LL2 RDX plume for GWM12. At LL2, RDX concentrations were input at 500 µg/L for five years, representing the historical

period of operation, followed by 200 µg/L for fifteen years. From years 15 through present, a concentration of 120 µg/L was input in the cells. This history matching provided a similar shape of the RDX plume. Although the history matching suggested a reasonable match using a decreasing concentration source, no source term was used for future plume simulations based on the lack of widespread vertical and horizontal RDX concentrations over 100 µg/L across the LL2 area (based direct-push data collected as part of the GMPOI and prior direct-push data). Concentrations of RDX over 100 µg/L were limited to two locations (GP-T89-001 and GP-T89-002), as shown on Figure 3-7, both horizontally and vertically.

7.0 GROUNDWATER MODEL FOR PREDICTION

The previously developed optimal Site extraction well pumping schedule (GWM10) needed to be updated because of the various updates to GWM12, including the following:

1. Revised hydraulic conductivity array;
2. Revised isoconcentration contours based on new information;
3. Deactivating EW-3, EW-6 and EW-16; and
4. 2013 installation of EW-17

The groundwater transport model was run in a predictive (forward in time) simulation, starting from August 2012 and running for approximately 100 years. Analysis of predictive model runs indicated the GWM10 pumping schedule required modification. The proposed pumping rates presented in this section were developed for overall capture of the current depicted extent of TCE over 5 µg/L and RDX over 2 µg/L, however in the case of one extraction well (EW-9) the pumping rate is the maximum sustainable pumping rate. The proposed pumping rates are not necessarily the minimum pumping rates to maintain capture.

This GWM12 predictive model was also used to conduct uncertainty analyses and evaluate the sensitivity of the model prediction results to drought conditions.

This predictive model is used as a tool to:

- Support the annual CE;
- Design and/or modify real-time operational pumping rates for the Site operation based on results from the CE;
- Modify the Site pumping schedule, if irrigation practice changes near a plume; and
- Support the development of an optimal long-term monitoring plan.

The predictive model is developed based on the long-term average of many transient stresses to the aquifer. If some of the stresses change from the assumptions in this model update, then the predictive model will need to be modified. This predictive model is also subject to the limitations discussed in Section 8.1.

7.1 Groundwater Flow Model for Predictive Simulation

The model used for predictive simulations is a modification of the calibrated model. A groundwater flow and contaminant transport model was developed for predictive simulations that simulate plume movement for the next 100 years. The boundary conditions for the predictive model are the same as in the calibrated model. The predictive model's hydrologic and groundwater extraction conditions for the next 100 years are specified as follows:

- Two stress periods for each year; a non-irrigation season of 273 days and an irrigation season of 92 days; 201 stress periods total;
- Groundwater recharge and ET rates are assumed to be the estimated long-term average;
- Irrigation pumping rates are assumed to be the long-term average during irrigation season, which is the same assumption used in the GWM10;
- LWS pumping rates are increased following the projected growth in demand, as shown in Table 7-2 (Black & Veatch, 2003);

- M.U.D. pumping rates are specified at the maximum permitted annual average rate of 52 MGD (Table 7-3);
- Municipal pumping rates for Ashland, Ithaca, Mead, and Memphis are assumed to be the average rates from 2012 (Section 2.6.2);
- Site extraction well pumping rates are assumed to be the proposed 2012 future pumping rates (Section 7.1.1); and
- Calibration model August 2012 simulated hydraulic heads are used as the initial heads.

7.1.1 Proposed former Nebraska Ordnance Plant Pumping Schedule

Groundwater simulations were performed to optimize pumping rates for both containment wells and focused extraction wells. Several model runs were performed to estimate pumping rates that would result in plume containment over the next 30 years. These recommended pumping rates were developed for overall capture of the current estimated extents of TCE above 5 µg/L and RDX over 2 µg/L for the next 30 years. However, in the case of EW-9 the pumping rate needed to predict plume containment (300 gpm) was not sustainable for this well. Therefore, additional iterations were conducted to determine the predictive result from EW-9 pumping at the maximum sustainable rate of 175 gpm. In order to mitigate the predicted plume migration between EW-7 and EW-9, optimization efforts are being explored including evaluating the installation of an additional extraction well.

The proposed pumping schedule developed using the GWM10 model was applied to the GWM12 model update for the 30-year predictive simulation to estimate if the proposed extraction well pumping rates would yield similar results. The proposed pumping GWM12 schedule developed during the model simulations is presented in Table 7-1. Compared to the GWM10, it was necessary to adjust the pumping rates at EW-9 to predict capture of the RDX plumes in future time periods, however the pumping rate needed was unsustainable. Therefore, the operation of EW-9 at the pumping rate presented in Table 7-1 results in a gradual migration of the LL2 RDX plume southeast of EW-9 at some future time. EW-3, EW-6 and EW-16 were deactivated in January 2013 and are not operational in future time periods. EW-17 was installed in the spring of 2013 and aquifer tests were not available for the calibration of the GWM12; following an analysis of the aquifer test data, additional updates to the proposed pumping rates may be made to EW-12 and EW-17 that are not presently included in the GWM12. It is recommended that the model should be calibrated in future updates based on the aquifer testing at EW-17.

In addition, the pumping rates may need to be adjusted on a case by case basis to maintain capture based upon monitoring well data or irrigation well operation in the vicinity of the extraction well. For example, the pumping rate at EW-1R may need to be increased during a dry summer when the nearest irrigation well operates more frequently. Annual containment evaluation is conducted to evaluate capture on a yearly basis.

7.2 Fate and Transport Model for Predictive Simulation

Predictive fate and transport modeling is described below including both the assumed initial Site contaminant plume conditions, and the assumptions about the high concentration areas within the contaminant plumes.

7.2.1 Initial Plume Conditions in 2012

The 2012 depicted TCE and RDX plumes (Figures 3-1 through 3-16) were used as the initial plume conditions for the predictive transport simulation. These plumes were interpreted based on data from various investigations (see Section 3.2). Slight adjustments were made to the initial concentrations in the model, based on 2012 monitoring well data.

7.2.2 High Concentration Area Assumptions

LL1 TCE Plume

As discussed in Section 6, the history matching simulation of the LL1 TCE plume from the 1960s through 2012 conservatively assumed that some high concentration areas still exist on the southwest side of LL1. For GWM12, specified concentration cells in the area of highest concentration at LL1 decrease over the next 20 years (Table 7-4).

LL2, LL3, LL4/AMA and Landfill TCE Plumes

The original TCE solvent release in the suspected AMA historic high concentration area (Section 3.6.3) has likely been dissolved and transported downgradient. The TCE plumes emanating from LL2, LL3 and the Landfill suggest low concentrations at the former release areas. Therefore, for the GWM12 predictive simulation, no specified concentration cells are assigned for these plumes. This is the same assumption that was assumed in GWM10.

LL1 RDX Plume

As discussed in Section 6, the GWM10 history matching simulation of the LL1 RDX plume from the 1960s through 2010 conservatively assumed that some mass loading was still occurring at the southwest side of LL1 in 2010. Recent monitoring well concentrations and additional direct-push data near the southwest side of LL1 indicated RDX concentrations were lower in 2012 than in 2010; therefore, the small (less than 15 µg/L) loading used in GWM10 was not utilized for forward predictions.

LL2 RDX Plume

History matching suggested a reasonable match using a decreasing concentration source, no specified concentration cells were used for future LL2 RDX plume simulations based on the lack of widespread vertical and horizontal RDX concentrations over 100 µg/L across the LL2 area (based direct-push data collected as part of the GMPOI and prior direct-push data).

LL3, LL4/AMA and Landfill RDX Plumes

RDX has not been detected recently in groundwater in the LL3 and LL4 former area of operations. Therefore, no specified concentration cells are assumed for these RDX plumes in the predictive model.

7.3 Predicted Fate and Transport of Plume Migration

The 30-year predicted fate and transport of the TCE and RDX plumes starting at 2012 are shown on Figures 7-1 through 7-28. The TCE plumes are predicted to be contained through the next 20 years using the pumping rates in Table 7-1. The RDX plumes are predicted to be contained through the next 10 years using the pumping rates in Table 7-1. Predictive simulation results starting at 40 years into the future are shown in Appendix D. Updates to the GWM12 initial conditions and simulation result include:

- Additional interior plume concentration data gathered since GWM10 are reflected in predictive simulations, especially in the shape of the LL2 RDX plume over time.
- The predicted RDX concentrations upgradient of EW-9 in the LL2 plume are higher than the RDX concentrations in GWM10. New monitoring well data confirms higher RDX concentrations are present in groundwater upgradient of EW-9; therefore, the initial plume concentration files were updated in GWM12. These higher concentrations required an increased pumping rate at EW-9 in order to maintain capture for the near future time periods. Additional pumping capacity at EW-9 is not available, therefore additional evaluation is being conducted to predict capture of the RDX plume.
- EW-3, EW-6 and EW-16 were taken off-line in January 2013 and are not simulated as operational in the forward predictions.
- EW-17 was installed in the spring 2013. Although aquifer testing and operational rates were not available at the time of publication, this well was included in the GWM12 predictive simulations.

The LL4/AMA TCE plume within in the overbank fines of the Platte Valley in year 5 (2017) and year 30 (2042), as predicted by GWM12, is shown on Figure 7-29. The predicted plume is presented at the southern portion of the Johnson Creek area in 2017. By 2042, the axis of the predicted plume, which was located in the Artesian property area in 2012, has moved south. This is consistent with the predicted plumes in Layers 2 and 3 and is consistent with GWM10 results.

7.4 Uncertainty Analysis of Predictive Simulations for Drought Conditions

The model predictions are subject to uncertainties in groundwater flow and transport parameters. Because the objective of the modeling is to simulate containment of the plumes and focused extraction of high concentration areas, the attention of the uncertainty analyses is on whether changing a parameter will cause changes in containment of the plume.

Uncertainty analysis was conducted to evaluate the sensitivity of the model predictions to a prolonged drought. The uncertainty analysis included modification to future irrigation pumping rates, ET and recharge rates, which may change in the future depending on climate conditions.

The Site experienced a drought from 2001 through 2006 and again in 2012. These droughts caused water levels to drop throughout the Platte Valley and Todd Valley aquifers. A long-term drought is likely to occur in the future; therefore, a simulation was run to predict the impact to the containment of the contaminant plumes. A drought will cause long-term recharge to

decrease and ET and irrigation flow rates are likely to increase. In this simulation, a 20% decrease in long-term average recharge was assumed and a corresponding 20% increase in ET and irrigation rates was implemented to predict the effect on containment of a long-term drought. This decrease in precipitation is similar to what was observed in 2003 and 2005. The model was run for 30 years.

Figure 7-30 compares the drought simulation results to the predictive results using these revised groundwater recharge and irrigation pumping rates. This comparison suggests that model predictions are sensitive to a decrease in groundwater recharge rates and an increase in irrigation pumping rates. Several irrigation wells that are predicted to impact plume migration at higher pumping rates are either within the plumes or in close proximity to the plumes. The extent of the predicted LL2 RDX and LL4/AMA TCE plume in year 30 (2042) under drought conditions is larger than the base predictive run. These simulations indicate that the pumping rates may need to be increased to compensate for increased irrigation well pumping during prolonged periods of drought.

8.0 CONCLUSIONS

GWM12 compiled and evaluated a large quantity of data relevant to the natural hydrologic system and contaminant migration within the Site model boundary, including geology, hydrogeology, hydrology, water supply, irrigation, groundwater contaminant sampling results, and containment system operation. The contours, tables and graphs summarizing the data in this report provided a scientific basis for developing the conceptual model and the numerical models.

The model prediction results suggest that the proposed Site pumping schedule (Table 7-1) will contain all TCE plumes and LL1, LL3 and LL4/AMA RDX plumes over the next 20 years. The RDX model predictions suggest that the proposed Site pumping schedule will contain the LL2 plume for the next 10 years, but additional evaluation is necessary to mitigate the predicted RDX plume migration southeast of EW-9 after 10 years. The pumping schedule should be evaluated in future model updates. In addition, the pumping schedule should be modified following EW-17 aquifer testing and model calibration.

The regional groundwater model simulates this hydrogeologic system at the regional scale with adequate detail for estimating containment over the long term. The model was developed through an iterative calibration process. The aquifer hydraulic conductivity distribution, which is the most critical parameter that affects groundwater flow, is considered to be well calibrated in the vicinity of the Site containment system. The groundwater fate and transport model provides an estimate of the predicted extent of the plume. The horizontal and vertical cell spacing in these simulations are reasonable for analyzing regional groundwater flow and plume migration. However, actual groundwater levels and chemical concentrations from monitoring wells collected on a semi-annual basis provide data to confirm whether the containment system is effective or not and should be used for future model refinements.

Updates to GWM12 include:

- Updated plume extents for RDX and TCE at LL1, LL2, LL3, LL4, and the AMA, based on new data collected in 2011 and 2012.
- Refined hydraulic conductivity distribution based on data collected from pumping tests at EW-1R and TH-EW-17, and slug tests in new and existing wells (ECC, 2013b).
- Refined bedrock surface elevations based on stratigraphic data from monitoring wells and bedrock borings installed in 2012.
- Site extraction system operational changes including deactivating EW-3, EW-6 and EW-16 in January 2013.
- Refined recharge values based on varied precipitation, drought conditions and observed water levels in Site wells in 2011 and 2012.
- Additional model refinements based on boring logs and preliminary results from the HEM survey (ECC and BMcD, 2013a).
- Updated water level measurements from March 2011, August 2011, October 2011, March 2012, and August 2012.

8.1 Limitations

Groundwater models are by definition a simplified version of the aquifer system. Site conditions and hydrogeologic properties were estimated through extrapolation of measured or estimated

properties, or inferences from data measured or estimated, and are based on existing site conditions and professional judgment. In addition, changes in the hydrogeologic system occur due to the passage of time, human activities, and climatic conditions. Therefore, uncertainties are inherent in this groundwater model and the simplifications built into the model will result in limitations.

GWM12 has been prepared in accordance with generally accepted hydrogeological and engineering practices for specific application to the Site. With future concentration trend data collected from the extraction wells and monitoring wells recently installed along the axes of the plumes, the understanding of plume migration behavior can be improved, and the limitations of the current model can be reduced.

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TABLES

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Table 2-1
USACE Monitoring Well and Observation Well Construction Details
2012 Groundwater Model Update
Former Nebraska Ordnance Plant, Mead, Nebraska

ID	DNR registration No.	E-83 Easting (NAD83)	N-83 Northing (NAD 83)	TOC-88 TOC Elev (ft NAVD 88)	Ground Surface Elev (ft NAVD 88)	STICK UP	SLOT SIZE	Well Dia. (inches)	Boring Dia. (inches)	Bottom of Well Depth (ft bgs)	Bottom of Well Elevation (ft NAVD88)	Filter pack size	Depth to Top of Filter Pack (ft bgs)	Top of Screen Depth (ft bgs)	Top of Screen Elevation (ft NAVD88)	Bottom of Screen Depth (ft bgs)	Bottom of Screen Elevation (ft NAVD88)	Bottom of Boring Depth (ft bgs)	Bottom of Boring Elevation (ft NAVD88)	Top of Bedrock Depth (ft bgs)	Top of Bedrock Elevation (ft NAVD88)	Bedrock Type
MW-01A (Abandoned)	G-154545BQ	2618459.72	511743.03	1176.88	1174.40	2.48	0.01	3.00	8.00	111.50	1062.90	NA	73.10	79.00	1095.40	109.00	1065.40	114.00	1060.40	109.00	1065.40	SH
MW-01B (Abandoned)	G-154545BR	2618469.56	511743.23	1176.73	1174.21	2.51	0.01	3.00	8.00	79.50	1094.71	NA	34.60	39.00	1135.21	79.00	1095.21	81.00	1093.21	NP	NP	NP
MW-02A	G-154545BP	2606800.10	506250.32	1174.77	1172.62	2.14	0.01	3.00	8.00	99.20	1073.42	NA	61.00	67.70	1104.92	96.90	1075.72	101.70	1070.92	99.50	1073.12	SS
MW-02B	G-154545BO	2606808.90	506255.48	1175.18	1172.73	2.45	0.01	3.00	8.00	64.00	1108.73	NA	29.70	34.30	1138.43	63.50	1109.23	67.00	1105.73	NP	NP	NP
MW-03A	G-154545BN	2607532.26	506223.42	1179.56	1177.65	1.90	0.01	3.00	8.00	148.50	1029.15	NA	91.70	97.00	1080.65	145.80	1031.85	171.50	1006.15	146.00	1031.65	SH
MW-03B	G-154545BM	2607542.05	506225.42	1179.83	1177.60	2.23	0.01	3.00	8.00	98.90	1078.70	NA	35.00	39.90	1137.70	98.40	1079.20	99.50	1078.10	NP	NP	NP
MW-04A	G-154545BL	2612041.94	506256.77	1168.73	1166.51	2.22	0.01	3.00	8.00	105.80	1060.71	NA	69.20	74.20	1092.31	103.50	1063.01	109.00	1057.51	103.50	1063.01	SH
MW-04B	G-154545BK	2612051.44	506259.36	1168.85	1166.43	2.42	0.01	3.00	8.00	71.70	1094.73	NA	26.00	32.10	1134.33	71.20	1095.23	75.00	1091.43	NP	NP	NP
MW-05A	G-154545FG	2613044.09	507097.63	1168.12	1166.10	2.02	0.01	3.00	8.00	103.00	1063.10	NA	56.00	61.80	1104.30	100.80	1065.30	107.20	1058.90	100.80	1065.30	SH
MW-05B	G-154545FH	2613053.87	507097.47	1168.18	1165.88	2.29	0.01	3.00	8.00	59.80	1106.08	NA	21.00	30.00	1135.88	59.30	1106.58	65.00	1100.88	NP	NP	NP
MW-06A (Abandoned)	G-154545BS	2617375.69	506522.12	1165.46	1163.40	2.06	0.01	3.00	8.00	102.20	1061.20	NA	55.80	61.00	1102.40	100.00	1063.40	105.00	1058.40	100.00	1063.40	SH
MW-06B (Abandoned)	G-154545BT	2617384.61	506525.48	1165.61	1163.55	2.06	0.01	3.00	8.00	64.50	1099.05	NA	21.00	34.80	1128.75	64.00	1099.55	68.00	1095.55	NP	NP	NP
MW-07A	G-154545BJ	2618267.10	507274.83	1164.85	1162.69	2.17	0.01	3.00	8.00	102.00	1060.69	NA	60.00	70.20	1092.49	99.50	1063.19	104.00	1058.69	99.50	1063.19	SH
MW-07B	G-154545BI	2618276.53	507276.12	1164.64	1162.34	2.30	0.01	3.00	8.00	74.20	1088.14	NA	29.20	34.70	1127.64	73.70	1088.64	78.00	1084.34	NP	NP	NP
MW-08A	G-154545BH	2622863.97	506814.76	1165.92	1163.62	2.30	0.01	3.00	8.00	125.50	1038.12	NA	75.00	84.00	1079.62	123.00	1040.62	131.00	1032.62	123.00	1040.62	SS
MW-08B	G-154545BG	2622872.08	506820.56	1165.92	1163.60	2.32	0.01	3.00	8.00	81.50	1082.10	NA	33.00	42.10	1121.50	81.00	1082.60	83.60	1080.00	NP	NP	NP
MW-09A	G-154545BF	2623570.81	507435.84	1171.46	1168.78	2.68	0.01	3.00	8.00	130.50	1038.28	NA	82.20	89.00	1079.78	128.00	1040.78	134.00	1034.78	127.70	1041.08	SS
MW-09B	G-154545BE	2623580.33	507436.09	1171.60	1169.00	2.60	0.01	3.00	8.00	85.80	1083.20	NA	41.00	46.30	1122.70	85.30	1083.70	89.00	1080.00	NP	NP	NP
MW-09D	G-154545BD	2623593.10	507436.00	1171.28	1169.31	1.97	0.02	2.00	5.50	136.79	1032.52	10/20	127.50	131.00	1038.31	136.00	1033.31	139.00	1030.31	121.60	1047.71	SS
MW-10A	G-154545BB	2607883.83	496858.27	1150.35	1147.91	2.44	0.01	3.00	8.00	102.70	1045.21	NA	56.40	61.40	1086.51	100.40	1047.51	103.00	1044.91	100.00	1047.91	SS
MW-10B	G-154545BA	2607893.74	496858.92	1150.31	1147.74	2.58	0.01	3.00	8.00	62.70	1085.04	NA	28.00	33.00	1114.74	62.20	1085.54	65.00	1082.74	NP	NP	NP
MW-11	G-154545AZ	2626486.32	509499.80	1153.22	1150.76	2.45	0.01	3.00	8.00	50.20	1100.56	NA	14.70	18.80	1131.96	48.00	1102.76	50.50	1100.26	48.00	1102.76	SS
MW-12 (Abandoned)	abandoned	2606856.25	509013.88	1178.55	1176.27	2.28	0.01	3.00	8.00	37.80	1138.47	NA	22.70	27.60	1148.67	37.30	1138.97	42.00	1134.27	NP	NP	NP
MW-13 (Abandoned)	abandoned	2612231.38	509178.55	1175.20	1172.84	2.36	0.01	3.00	8.00	39.70	1133.14	NA	24.50	29.50	1143.34	39.20	1133.64	42.00	1130.84	NP	NP	NP
MW-14 (Abandoned)	abandoned	2617504.71	509391.07	1178.94	1176.80	2.14	0.01	3.00	8.00	48.80	1128.00	NA	32.00	38.60	1138.20	48.30	1128.50	50.00	1126.80	NP	NP	NP
MW-15 (Abandoned)	abandoned	2622745.33	509482.90	1170.06	1167.71	2.35	0.01	3.00	8.00	47.20	1120.51	NA	32.20	37.00	1130.71	46.70	1121.01	50.00	1117.71	NP	NP	NP
MW-16B	G-154545Q	2604911.66	514026.38	1188.68	1186.48	2.20	0.01	3.00	8.00	NA	NA	NA	NA	NA	1186.48	NA	NA	NA	NA	106.80	1079.68	SH
MW-16C	G-154545AY	2604917.63	514034.74	1189.40	1186.74	2.66	0.01	3.00	8.00	41.90	1144.84	NA	28.70	31.50	1155.24	41.50	1145.24	45.00	1141.74	NP	NP	NP
MW-17A (Abandoned)	G-154545AX	2603293.03	499100.33	1128.60	1126.40	2.20	0.01	2.00	8.00	78.30	1048.10	NA	68.50	72.10	1054.30	77.10	1049.30	78.30	1048.10	57.00	1069.40	SH
MW-17B	G-154545AW	2603293.03	499101.48	1128.50	1126.20	2.30	0.01	3.00	8.00	56.20	1070.00	NA	48.00	50.40	1075.80	55.80	1070.40	59.00	1067.20	56.80	1069.40	SH
MW-17C (Abandoned)	G-154545AV	2603293.48	499090.31	1128.40	1126.20	2.20	0.01	3.00	8.00	17.60	1108.60	16/100	4.70	7.20	1119.00	17.20	1109.00	22.00	1104.20	NP	NP	NP
MW-18A	G-154545FI	2629150.33	506832.34	1145.43	1142.80	2.64	0.01	2.00	8.00	125.00	1017.80	NA	120.00	122.00	1020.80	125.00	1017.80	140.60	1002.20	100.80	1042.00	SS/SH
MW-18B	G-154545FJ	2629156.57	506827.46	1145.57	1142.96	2.61	0.01	3.00	8.00	NA	NA	NA	NA	NA	1142.96	NA	NA	NA	NA	NP	NP	NP
MW-18C	G-154545AU	2629148.53	506821.93	1146.05	1143.38	2.67	0.01	3.00	8.00	47.10	1096.28	16/100	34.30	36.70	1106.68	46.70	1096.68	51.00	1092.38	NP	NP	NP
MW-19A (Abandoned)	G-154545AT	2618421.42	517577.13	1158.65	1156.25	2.40	0.01	2.00	8.00	128.00	1028.25	NA	123.10	125.00	1031.25	128.00	1028.25	138.00	1018.25	115.00	1041.25	SS/SH
MW-19B	G-154545AS	2618429.63	517576.97	1158.59	1156.27	2.32	0.01	3.00	8.00	103.40	1052.87	16/100	98.00	98.00	1058.27	103.00	1053.27	105.00	1051.27	104.20	1052.07	SH
MW-19C (Abandoned)	G-154545AR	2618426.14	517568.83	1159.26	1156.64	2.62	0.01	3.00	8.00	20.70	1135.94	NA	8.40	10.20	1146.44	20.25	1136.39	27.00	1129.64	NP	NP	NP
MW-20A	G-154545AQ	2616622.54	493189.94	1160.42	1157.97	2.45	0.01	2.00	8.00	150.40	1007.57	NA	141.80	145.00	1012.97	150.40	1007.57	153.30	1004.67	138.50	1019.47	SS
MW-20B	G-154545AP	2616633.43	493191.47	1160.29	1157.72	2.57	0.01	3.00	8.00	134.00	1023.72	NA	125.60	128.60	1029.12	133.60	1024.12	138.00	1019.72	111.60	1046.12	SS/SH
MW-20C	G-154545AO	2616611.43	493187.61	1160.29	1157.84	2.45	0.01	3.00	8.00	60.70	1097.14	NA	45.80	50.30	1107.54	60.30	1097.54	62.00	1095.84	NP	NP	NP
MW-21A	G-154545AN	2607121.37	503524.81	1165.63	1163.72	1.91	0.02	2.00	6.00	126.81	1036.91	10\20	113.00	116.00	1047.72	126.00	1037.72	128.50	1035.22	NP	NP	NP
MW-21B	G-154545AM	2607111.29	503524.05	1165.59	1163.67	1.92	0.01	2.00	5.63	76.53	1087.14	20\40	63.00	66.00	1097.67	76.00	1087.67	79.00	1084.67	NP	NP	NP

Table 2-1
USACE Monitoring Well and Observation Well Construction Details
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Former Nebraska Ordnance Plant, Mead, Nebraska

		E-83	N-83	TOC-88	Ground					Bottom of Well		Filter	Depth to	Top of Screen		Bottom of Screen		Bottom of Boring		Top of Bedrock		Bedrock
ID	DNR registration No.	Easting (NAD83)	Northing (NAD 83)	TOC Elev (ft NAVD 88)	Surface Elev (ft NAVD 88)	STICK UP	SLOT SIZE	Well Dia. (inches)	Boring Dia. (inches)	Depth (ft bgs)	Elevation (ft NAVD88)	pack size	Top of Filter Pack (ft bgs)	Depth (ft bgs)	Elevation (ft NAVD88)	Depth (ft bgs)	Elevation (ft NAVD88)	Depth (ft bgs)	Elevation (ft NAVD88)	Depth (ft bgs)	Elevation (ft NAVD88)	Type
MW-21D	sent	2607131.41	503525.83	1165.57	1163.67	1.90	0.02	2.00	10.00	138.69	1024.98	10\20	130.20	133.00	1030.67	138.00	1025.67	139.00	1024.67	127.30	1036.37	SH/SS
MW-22A (Abandoned)	G-154545AL	2606598.39	510402.07	1176.78	1174.93	1.85	0.02	2.00	8.00	99.07	1075.86	4\8	85.00	87.80	1087.13	97.80	1077.13	106.00	1068.93	99.50	1075.43	SH
MW-22B (Abandoned)	G-154545AK	2606604.48	510403.43	1176.67	1174.81	1.86	0.01	2.00	6.00	68.65	1106.16	20\40	55.00	58.00	1116.81	68.00	1106.81	70.00	1104.81	NP	NP	NP
MW-23A (Abandoned)	G-154545AJ	2606402.57	509376.37	1173.56	1171.88	1.68	0.02	2.00	5.63	100.00	1071.88	10\20	84.00	88.50	1083.38	98.50	1073.38	105.00	1066.88	99.30	1072.58	SH
MW-23B (Abandoned)	G-154545AI	2606393.06	509383.87	1173.93	1172.05	1.88	0.01	2.00	6.00	78.00	1094.05	10\20	63.50	67.50	1104.55	77.50	1094.55	79.00	1093.05	NP	NP	NP
MW-24A	G-154545AH	2608476.90	501919.83	1163.41	1161.37	2.04	0.02	2.00	8.00	121.50	1039.87	4\8	109.40	111.50	1049.87	121.50	1039.87	140.80	1020.57	125.00	1036.37	SH
MW-24B	G-154545AG	2608477.73	501909.01	1163.46	1161.27	2.19	0.01	2.00	6.00	66.50	1094.77	20\40	53.00	56.00	1105.27	66.00	1095.27	67.50	1093.77	NP	NP	NP
MW-25A	G-154545AF	2608308.41	504875.16	1175.25	1173.23	2.02	0.02	2.00	6.00	156.06	1017.17	10\20	143.00	145.00	1028.23	155.00	1018.23	156.60	1016.63	NP	NP	NP
MW-25B	G-154545AE	2608308.27	504885.58	1174.71	1172.93	1.78	0.01	2.00	6.00	84.82	1088.11	10\20	70.00	74.00	1098.93	84.00	1088.93	85.00	1087.93	NP	NP	NP
MW-25D (Abandoned)	G-154545AD	2608308.83	504864.77	1175.46	1173.54	1.92	0.02	2.00	6.00	168.84	1004.70	10\20	161.00	163.20	1010.34	168.20	1005.34	170.00	1003.54	156.80	1016.74	SS
MW-26A (Abandoned)	G-154545AC	2609860.44	508825.09	1174.15	1172.44	1.71	0.02	2.00	6.00	103.59	1068.85	10\20	89.80	92.50	1079.94	102.50	1069.94	120.00	1052.44	103.80	1068.64	SS/SH
MW-26B (Abandoned)	G-154545AB	2609849.90	508824.87	1174.16	1172.42	1.74	0.01	2.00	5.63	76.64	1095.78	10\20	63.00	66.00	1106.42	76.00	1096.42	77.50	1094.92	NP	NP	NP
MW-27A (Abandoned)	G-154545AA	2611434.64	508103.04	1176.05	1174.14	1.91	0.02	2.00	4.25	107.00	1067.14	4\8	94.00	96.00	1078.14	106.00	1068.14	121.90	1052.24	106.80	1067.34	SH
MW-27B	G-154545Z	2611427.01	508110.55	1176.06	1174.12	1.94	0.01	2.00	8.00	72.00	1102.12	10\20	58.00	61.50	1112.62	71.50	1102.62	73.00	1101.12	NP	NP	NP
MW-28A	G-154545Y	2612951.02	502242.71	1172.22	1170.29	1.93	0.02	2.00	8.00	138.10	1032.19	10\20	124.80	127.60	1042.69	137.60	1032.69	138.60	1031.69	138.00	1032.29	SS
MW-28B	G-154545X	2612936.01	502242.26	1172.52	1170.43	2.09	0.01	2.00	6.00	78.03	1092.40	10\20	63.50	67.50	1102.93	77.50	1092.93	79.00	1091.43	NP	NP	NP
MW-28D	G-154545W	2612969.60	502242.92	1171.99	1169.84	2.15	0.02	2.00	5.75	149.50	1020.34	10\20	142.00	144.00	1025.84	149.00	1020.84	149.50	1020.34	138.00	1031.84	SS
MW-29A	G-154545V	2614469.84	498383.11	1160.06	1158.50	1.56	0.02	2.00	10.00	134.10	1024.40	4\8	120.00	122.60	1035.90	132.60	1025.90	143.00	1015.50	137.10	1021.40	SH
MW-29B	G-154545FK	2614460.98	498382.37	1161.03	1158.75	2.28	0.01	2.00	8.00	75.00	1083.75	10\20	61.00	64.50	1094.25	74.50	1084.25	76.00	1082.75	NP	NP	NP
MW-30A (Abandoned)	G-154545U	2616288.05	507064.55	1168.55	1166.61	1.94	0.02	2.00	8.00	99.50	1067.11	10\20	91.00	94.00	1072.61	99.00	1067.61	110.00	1056.61	101.50	1065.11	SH/SS
MW-30B (Abandoned)	G-154545FL	2616281.84	507065.86	1168.38	1166.45	1.93	0.01	2.00	8.00	71.00	1095.45	20\40	56.00	59.50	1106.95	69.50	1096.95	71.00	1095.45	NP	NP	NP
MW-31A	G-154545T	2617943.95	503233.70	1167.38	1165.35	2.03	0.02	2.00	10.00	105.00	1060.35	10\20	91.20	94.50	1070.85	104.50	1060.85	112.00	1053.35	106.00	1059.35	SH
MW-31B	G-154545S	2617935.17	503238.63	1166.95	1165.06	1.89	0.01	2.00	8.00	60.90	1104.16	10\20	47.00	50.00	1115.06	60.00	1105.06	62.00	1103.06	NP	NP	NP
MW-32A	G-154545R	2619697.25	499062.26	1154.17	1152.35	1.82	0.02	2.00	7.75	99.37	1052.98	4\8	82.00	88.50	1063.85	98.50	1053.85	99.50	1052.85	99.55	1052.80	SH
MW-32B	G-154545P	2619696.91	499069.08	1154.10	1152.31	1.79	0.01	2.00	7.75	81.50	1070.81	10\20	69.00	71.00	1081.31	81.00	1071.31	82.00	1070.31	NP	NP	NP
MW-32D	G-154545O	2619697.54	499055.63	1154.02	1152.07	1.95	0.02	2.00	5.63	112.13	1039.94	10\20	103.50	106.50	1045.57	111.50	1040.57	113.00	1039.07	99.50	1052.57	SH
MW-33A	sent	2622410.84	502847.91	1160.32	1158.43	1.89	0.02	2.00	6.00	111.00	1047.43	10\20	96.50	100.50	1057.93	110.50	1047.93	112.00	1046.43	NP	NP	NP
MW-33B	G-154545N	2622401.05	502854.78	1160.37	1158.53	1.84	0.01	2.00	8.00	84.26	1074.27	10\20	69.50	73.50	1085.03	83.50	1075.03	84.50	1074.03	NP	NP	NP
MW-33D	G-154545M	2622421.53	502856.97	1160.24	1158.29	1.95	0.02	2.00	6.00	125.50	1032.79	10\20	118.00	120.00	1038.29	125.00	1033.29	127.00	1031.29	116.50	1041.79	SS
MW-34A	G-154545L	2624442.78	498806.30	1156.79	1155.05	1.74	0.02	2.00	8.00	112.50	1042.55	10\20	98.00	102.00	1053.05	112.00	1043.05	113.00	1042.05	113.00	1042.05	SS
MW-34B	G-154545K	2624443.06	498814.11	1157.00	1155.00	2.00	0.01	2.00	8.00	75.50	1079.50	20\40	61.00	65.00	1090.00	75.00	1080.00	76.00	1079.00	NP	NP	NP
MW-34D (Abandoned)	G-154545J	2624442.36	498796.40	1156.73	1154.83	1.90	0.02	2.00	5.63	126.04	1028.79	10\20	117.30	120.00	1034.83	125.00	1029.83	127.50	1027.33	112.90	1041.93	SS
MW-35A	G-154545I	2629595.76	496323.64	1139.81	1137.80	2.01	0.02	2.00	8.00	92.00	1045.80	4\8	78.50	81.50	1056.30	91.50	1046.30	92.50	1045.30	NP	NP	NP
MW-35B	G-154545H	2629595.84	496329.37	1139.57	1137.76	1.81	0.01	2.00	8.00	67.60	1070.16	20\40	53.00	57.00	1080.76	67.00	1070.76	68.00	1069.76	NP	NP	NP
MW-35D	G-154545FM	2629595.80	496317.10	1139.67	1137.78	2.20	0.02	2.00	6.00	106.50	1031.28	10\20	98.00	100.50	1037.28	105.50	1032.28	117.00	1020.78	93.00	1044.78	SS
MW-36A (Abandoned)	G-154545G	2634814.84	496694.95	1076.62	1076.84	-0.22	0.02	2.00	6.00	38.72	1038.12	10\20	25.00	28.00	1048.84	38.00	1038.84	39.00	1037.84	NP	NP	NP
MW-36B (Abandoned)	G-154545F	2634805.75	496692.86	1076.65	1076.80	-0.15	0.01	2.00	6.00	27.50	1049.30	20\40	14.00	17.00	1059.80	27.00	1049.80	28.50	1048.30	NP	NP	NP
MW-36D (Abandoned)	G-154545FG	2634824.46	496697.59	1076.79	1076.93	-0.14	0.02	2.00	6.00	49.00	1027.93	10\20	41.00	43.00	1033.93	48.00	1028.93	49.00	1027.93	39.00	1037.93	SS
MW-37A (Abandoned)	G-154545E	2633418.32	491651.94	1085.20	1083.05	2.15	0.02	2.00	10.00	41.00	1042.05	4\8	28.30	30.50	1052.55	40.50	1042.55	48.00	1035.05	41.40	1041.65	SS

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Former Nebraska Ordnance Plant, Mead, Nebraska

		E-83	N-83	TOC-88	Ground					Bottom of Well		Filter	Depth to	Top of Screen		Bottom of Screen		Bottom of Boring		Top of Bedrock		Bedrock
ID	DNR registration No.	Easting (NAD83)	Northing (NAD 83)	TOC Elev (ft NAVD 88)	Surface Elev (ft NAVD 88)	STICK UP	SLOT SIZE	Well Dia. (inches)	Boring Dia. (inches)	Depth (ft bgs)	Elevation (ft NAVD88)	pack size	Top of Filter Pack (ft bgs)	Depth (ft bgs)	Elevation (ft NAVD88)	Depth (ft bgs)	Elevation (ft NAVD88)	Depth (ft bgs)	Elevation (ft NAVD88)	Depth (ft bgs)	Elevation (ft NAVD88)	Type
MW-37B (Abandoned)	G-154545D	2633416.51	491631.65	1085.19	1083.07	2.12	0.01	2.00	8.00	29.50	1053.57	20\40	21.70	24.00	1059.07	29.00	1054.07	30.00	1053.07	NP	NP	NP
MW-37D (Abandoned)	abandoned	2633413.67	491666.00	1085.06	1082.98	2.08	0.02	2.00	6.00	51.00	1031.98	10\20	43.50	45.50	1037.48	50.50	1032.48	51.80	1031.18	41.50	1041.48	SS
MW-38A	G-154545C	2638131.88	496248.57	1082.32	1079.98	2.34	0.02	2.00	8.00	50.90	1029.08	10\20	41.70	44.70	1035.28	49.20	1030.78	51.00	1028.98	49.20	1030.78	SS
MW-38D	G-154545B	2638138.80	496250.60	1081.92	1079.98	2.20	0.02	2.00	6.00	64.00	1015.98	10\20	55.60	58.50	1021.48	63.50	1016.48	65.00	1014.98	49.20	1030.78	SS
MW-39A (Abandoned)	G-154545A	2640062.25	499304.69	1082.82	1081.00	1.82	0.02	2.00	8.00	49.60	1031.40	10\20	40.00	44.00	1037.00	48.50	1032.50	49.60	1031.40	48.50	1032.50	SS
MW-39D (Abandoned)	G-154545FF	2640059.10	499298.90	1082.95	1081.00	1.95	0.02	2.00	6.00	55.50	1025.50	10\20	50.50	52.50	1028.50	55.30	1025.70	59.00	1022.00	48.50	1032.50	SS/SH
MW-40A	G-154545FE	2623018.62	511963.35	1172.09	1170.09	2.00	0.02	2.00	7.25	126.14	1043.95	4\8	123.00	120.50	1049.59	125.50	1044.59	145.00	1025.09	127.60	1042.49	SS/SH
MW-40B	G-154545FD	2623006.75	511962.76	1172.34	1170.38	1.96	0.01	2.00	6.00	64.75	1105.63	20\40	51.00	54.00	1116.38	64.00	1106.38	65.50	1104.88	NP	NP	NP
MW-41A (Abandoned)	G-154545FN	2624371.47	512001.33	1168.63	1166.32	2.31	0.02	2.00	6.00	83.30	1083.02	10\20	68.40	71.50	1094.82	81.50	1084.82	83.30	1083.02	82.30	1084.02	SS
MW-41B (Abandoned)	G-154545FC	2624361.83	512001.37	1168.68	1166.27	2.41	0.01	2.00	6.00	46.50	1119.77	20\40	33.00	36.00	1130.27	46.00	1120.27	47.00	1119.27	NP	NP	NP
MW-41D (Abandoned)	G-154545FB	2624353.22	512000.98	1168.61	1166.41	2.20	0.02	2.00	5.25	92.50	1073.91	10\20	85.00	87.00	1079.41	92.00	1074.41	93.00	1073.41	82.00	1084.41	SS
MW-42A	G-154545FA	2629385.20	501582.56	1146.53	1144.54	1.99	0.02	2.00	6.00	96.71	1047.83	10\20	83.00	86.00	1058.54	96.00	1048.54	97.50	1047.04	NP	NP	NP
MW-42B	G-154545EZ	2629385.28	501592.64	1146.64	1144.51	2.13	0.01	2.00	6.00	63.50	1081.01	20\40	50.00	53.00	1091.51	63.00	1081.51	64.50	1080.01	NP	NP	NP
MW-42D	G-154545EY	2629384.99	501572.17	1146.20	1144.41	2.20	0.02	2.00	6.00	109.23	1035.18	10\20	101.20	103.20	1041.21	108.20	1036.21	109.20	1035.21	97.80	1046.61	SS
MW-43A	G-154545EX	2629243.07	504317.91	1142.90	1141.02	1.88	0.02	2.00	6.00	101.51	1039.51	10\20	87.50	90.50	1050.52	100.50	1040.52	102.00	1039.02	NP	NP	NP
MW-43B	G-154545EW	2629244.24	504328.20	1142.74	1140.90	1.84	0.01	2.00	6.00	50.95	1089.95	10\20	37.00	40.00	1100.90	50.00	1090.90	52.00	1088.90	NP	NP	NP
MW-43D	G-154545EV	2629242.21	504308.09	1142.95	1140.95	2.00	0.02	2.00	5.25	111.90	1029.05	10\20	104.00	106.40	1034.55	111.40	1029.55	114.00	1026.95	101.50	1039.45	SS
MW-44A	G-154545EU	2632953.68	500415.12	1093.68	1091.91	1.77	0.02	2.00	6.00	40.00	1051.91	10\20	25.00	29.50	1062.41	39.50	1052.41	42.50	1049.41	NP	NP	NP
MW-44B	G-154545ET	2632954.90	500426.32	1092.46	1090.62	1.84	0.01	2.00	6.00	26.50	1064.12	20\40	13.00	16.00	1074.62	26.00	1064.62	30.00	1060.62	NP	NP	NP
MW-44D	G-154545ES	2632952.84	500403.76	1094.20	1092.31	1.89	0.02	2.00	5.25	56.60	1035.71	10\20	48.80	50.80	1041.51	55.80	1036.51	57.00	1035.31	44.00	1048.31	SS
MW-45A (Abandoned)	G-154545ER	2635043.54	499241.12	1081.53	1079.57	1.96	0.02	2.00	6.00	38.50	1041.07	4\8	26.10	28.00	1051.57	38.00	1041.57	39.00	1040.57	NP	NP	NP
MW-45B (Abandoned)	G-154545EQ	2635053.92	499241.15	1081.54	1079.54	2.00	0.01	2.00	6.00	27.52	1052.02	20\40	15.00	17.00	1062.54	27.00	1052.54	28.50	1051.04	NP	NP	NP
MW-45D (Abandoned)	G-154545EP	2635032.46	499241.76	1081.44	1079.66	1.78	0.02	2.00	6.00	48.50	1031.16	10\20	40.50	43.00	1036.66	48.00	1031.66	49.70	1029.96	39.00	1040.66	SS
MW-46A	G-154545EO	2637464.94	499387.37	1082.70	1080.71	1.99	0.01	2.00	6.00	44.26	1036.45	20\40	30.20	33.20	1047.51	43.20	1037.51	48.00	1032.71	47.50	1033.21	NA
MW-46B	G-154545EN	2637464.42	499396.68	1082.81	1080.77	2.04	0.01	2.00	6.00	31.76	1049.01	20\40	18.00	21.00	1059.77	31.00	1049.77	34.00	1046.77	NP	NP	NP
MW-46D	G-154545EM	2637465.40	499375.99	1082.65	1080.71	1.94	0.02	2.00	6.00	58.00	1022.71	10\20	50.50	52.50	1028.21	57.50	1023.21	58.50	1022.21	47.50	1033.21	SS
MW-47A (Abandoned)	G-154545EL	2603834.71	524480.73	1201.73	1199.76	1.97	0.02	2.00	8.00	123.30	1076.46	10\20	105.10	112.80	1086.96	122.80	1076.96	135.30	1064.46	126.00	1073.76	SH
MW-47B (Abandoned)	G-154545EK	2603819.42	524480.21	1201.67	1199.77	1.90	0.01	2.00	6.00	85.60	1114.17	20\40	71.90	74.80	1124.97	84.80	1114.97	86.60	1113.17	NP	NP	NP
MW-48A (Abandoned)	abandoned	2607436.75	519363.04	1193.44	1191.36	2.08	0.02	2.00	8.00	121.20	1070.16	10\20	108.10	110.70	1080.66	120.70	1070.66	124.00	1067.36	122.00	1069.36	SS
MW-48B (Abandoned)	abandoned	2607442.66	519367.88	1193.35	1191.35	2.00	0.01	2.00	6.00	83.50	1107.85	20\40	70.50	73.00	1118.35	83.00	1108.35	83.50	1107.85	NP	NP	NP
MW-48D (Abandoned)	abandoned	2607427.86	519358.29	1193.65	1191.64	2.01	0.02	2.00	6.00	131.00	1060.64	10\20	120.80	125.50	1066.14	130.50	1061.14	133.00	1058.64	119.40	1072.24	SS
MW-52A (Abandoned)	G-154545EJ	2627012.55	508784.57	1155.22	1153.51	1.71	0.02	2.00	6.00	58.89	1094.62	10\20	45.30	48.00	1105.51	58.00	1095.51	65.00	1088.51	60.00	1093.51	SH
MW-52B (Abandoned)	G-154545EI	2627004.24	508778.94	1155.65	1153.91	1.74	0.01	2.00	8.00	53.11	1100.80	20\40	39.00	42.50	1111.41	52.50	1101.41	54.00	1099.91	NP	NP	NP
MW-53A	G-154545EH	2627897.77	508169.88	1136.36	1134.42	1.94	0.02	2.00	6.00	97.70	1036.72	4\8	84.40	87.00	1047.42	97.00	1037.42	101.00	1033.42	99.90	1034.52	SS
MW-53B	G-154545EG	2627885.40	508166.61	1136.91	1134.89	2.02	0.01	2.00	6.00	38.10	1096.79	20\40	24.50	27.50	1107.39	37.50	1097.39	39.00	1095.89	NP	NP	NP
MW-54A (Abandoned)	G-154545EF	2627893.82	508858.25	1121.58	1119.72	1.86	0.02	2.00	6.00	76.96	1042.76	4\8	62.00	66.00	1053.72	76.00	1043.72	83.50	1036.22	81.50	1038.22	SS

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		E-83	N-83	TOC-88	Ground					Bottom of Well		Filter	Depth to	Top of Screen		Bottom of Screen		Bottom of Boring		Top of Bedrock		Bedrock
ID	DNR registration No.	Easting (NAD83)	Northing (NAD 83)	TOC Elev (ft NAVD 88)	Surface Elev (ft NAVD 88)	STICK UP	SLOT SIZE	Well Dia. (inches)	Boring Dia. (inches)	Depth (ft bgs)	Elevation (ft NAVD88)	pack size	Top of Filter Pack (ft bgs)	Depth (ft bgs)	Elevation (ft NAVD88)	Depth (ft bgs)	Elevation (ft NAVD88)	Depth (ft bgs)	Elevation (ft NAVD88)	Depth (ft bgs)	Elevation (ft NAVD88)	Type
MW-54B (Abandoned)	G-154545FO	2627883.88	508855.98	1121.59	1119.72	1.87	0.01	2.00	8.00	31.00	1088.72	20\40	21.00	24.00	1095.72	29.00	1090.72	31.00	1088.72	NP	NP	NP
MW-55A (Abandoned)	G-154545EE	2628135.40	508377.66	1126.49	1124.52	1.97	0.02	2.00	6.00	84.53	1039.99	10\20	72.00	74.00	1050.52	84.00	1040.52	87.00	1037.52	85.00	1039.52	SS
MW-55B (Abandoned)	G-154545ED	2628125.88	508374.22	1127.27	1125.08	2.19	0.01	2.00	6.00	66.50	1058.58	10\20	52.50	56.00	1069.08	66.00	1059.08	68.00	1057.08	NP	NP	NP
MW-56A	G-154545EC	2628206.01	508215.32	1125.96	1124.17	1.79	0.02	2.00	6.00	79.50	1044.67	4\8	66.00	69.00	1055.17	79.00	1045.17	82.00	1042.17	81.00	1043.17	SS
MW-56B	G-154545FP	2628195.32	508217.29	1126.24	1124.44	1.80	0.01	2.00	6.00	31.50	1092.94	20\40	18.00	21.00	1103.44	31.00	1093.44	32.70	1091.74	NP	NP	NP
MW-57B	G-154545EB	2607621.51	516363.44	1196.27	1194.32	1.95	0.01	2.00	6.00	65.50	1128.82	20\40	53.00	55.00	1139.32	65.00	1129.32	67.00	1127.32	NP	NP	NP
MW-58A (Abandoned)	abandoned	2620357.49	515008.03	1175.37	1173.48	1.89	0.02	2.00	8.00	133.00	1040.48	10\20	120.00	122.50	1050.98	132.50	1040.98	144.50	1028.98	135.00	1038.48	SS/SH
MW-58B (Abandoned)	abandoned	2620346.02	515009.76	1175.39	1173.40	1.99	0.01	2.00	5.63	82.65	1090.75	20\40	68.40	70.70	1102.70	80.70	1092.70	135.00	1038.40	134.00	1039.40	SS
MW-59A (Abandoned)	abandoned	2621708.41	515882.45	1162.95	1161.06	1.89	0.02	2.00	5.25	127.80	1033.26	4\8	111.50	113.10	1047.96	123.10	1037.96	124.00	1037.06	NP	NP	NP
MW-59B (Abandoned)	abandoned	2621700.91	515887.73	1163.04	1161.29	1.75	0.02	2.00	5.25	51.79	1109.50	10\20	36.80	38.00	1123.29	48.00	1113.29	49.00	1112.29	NP	NP	NP
MW-59D (Abandoned)	abandoned	2621717.33	515878.49	1162.57	1160.85	1.72	0.02	2.00	5.25	142.00	1018.85	10\20	130.20	132.20	1028.65	137.20	1023.65	139.00	1021.85	125.00	1035.85	SS
MW-60A	G-154545EA	2624702.83	489585.15	1145.83	1143.95	1.88	0.02	2.00	5.50	102.50	1041.45	10\20	88.00	92.00	1051.95	102.00	1041.95	115.00	1028.95	102.50	1041.45	SH
MW-60B (Abandoned)	G-154545DZ	2624703.22	489598.70	1146.15	1144.12	2.03	0.01	2.00	6.00	80.50	1063.62	20\40	67.00	70.00	1074.12	80.00	1064.12	83.00	1061.12	NP	NP	NP
MW-61A	G-154545DY	2608656.02	492900.05	1108.96	1106.91	2.05	0.02	2.00	6.25	86.00	1020.91	10\20	73.00	75.70	1031.21	85.70	1021.21	87.00	1019.91	NP	NP	NP
MW-61B	G-154545DX	2608644.38	492898.60	1108.96	1106.84	2.12	0.01	2.00	6.25	35.30	1071.54	20\40	21.00	25.00	1081.84	35.00	1071.84	38.00	1068.84	NP	NP	NP
MW-61D	G-154545DW	2608667.93	492901.85	1108.96	1106.85	2.11	0.02	2.00	8.00	102.50	1004.35	10\20	94.30	97.00	1009.85	102.00	1004.85	103.00	1003.85	87.50	1019.35	SH
MW-62A (Abandoned)	G-154545DV	2635396.62	493874.24	1078.66	1076.62	2.04	0.02	2.00	6.25	37.50	1039.12	10\20	25.00	27.00	1049.62	37.00	1039.62	37.50	1039.12	NP	NP	NP
MW-62B (Abandoned)	G-154545DU	2635385.06	493871.95	1078.57	1076.52	2.05	0.01	2.00	6.25	24.50	1052.02	20\40	15.00	17.00	1059.52	24.00	1052.52	25.00	1051.52	NP	NP	NP
MW-62D (Abandoned)	G-154545DT	2635407.14	493876.96	1078.89	1076.90	1.99	0.02	2.00	8.00	49.50	1027.40	10\20	41.00	44.00	1032.90	49.00	1027.90	50.00	1026.90	37.60	1039.30	SS
MW-63B (Abandoned)	G-154545DS	2613167.91	519473.60	1177.45	1175.66	1.90	0.01	2.00	6.00	28.80	1146.86	10\20	13.00	18.50	1157.16	28.50	1147.16	31.40	1144.26	NP	NP	NP
MW-64B (Abandoned)	G-154545DR	2628038.55	510106.02	1144.20	1142.35	1.85	0.01	2.00	6.00	29.50	1112.85	20/40	16.00	19.00	1123.35	29.00	1113.35	31.00	1111.35	NP	NP	NP
MW-65A	G-154545DQ	2613203.05	506090.52	1163.99	1164.83	FM	0.02	2.00	6.50	103.00	1061.83	4/8	91.70	92.50	1072.33	102.50	1062.33	107.50	1057.33	NA	NA	NA
MW-65B	G-154545DP	2613193.30	506091.23	1164.02	1164.86	FM	0.02	2.00	6.50	66.20	1098.66	10/20	31.90	35.40	1129.46	65.40	1099.46	66.50	1098.36	NA	NA	NA
MW-66A (Abandoned)	abandoned	2613278.51	506026.73	1163.09	1163.93	FM	0.02	2.00	6.50	99.50	1064.43	4/8	86.40	89.00	1074.93	99.00	1064.93	104.50	1059.43	NA	NA	NA
MW-66B		2613268.32	506027.61	1163.08	1163.92	FM	0.02	2.00	6.50	64.50	1099.42	10/20	30.20	34.00	1129.92	64.00	1099.92	98.00	1065.92	NA	NA	NA
MW-67A (Abandoned)	abandoned	2613306.23	506004.48	1162.44	1163.28	FM	0.02	2.00	6.50	98.50	1064.78	4/8	85.80	88.00	1075.28	98.00	1065.28	102.50	1060.78	NA	NA	NA
MW-67B (Abandoned)	abandoned	2613314.55	505999.49	1162.68	1163.52	FM	0.02	2.00	6.50	64.50	1099.02	10/20	30.70	34.00	1129.52	64.00	1099.52	66.00	1097.52	NA	NA	NA
MW-68B (Abandoned)	abandoned	2613320.78	506024.53	1164.06	1164.90	FM	0.02	2.00	6.50	66.50	1098.40	10/20	32.20	36.00	1128.90	66.00	1098.90	68.50	1096.40	NA	NA	NA
MW-69B (Abandoned)	abandoned	2613341.62	506046.74	1165.08	1165.92	FM	0.02	2.00	6.50	66.50	1099.42	10/20	32.30	36.00	1129.92	66.00	1099.92	68.00	1097.92	NA	NA	NA
MW-70B (Abandoned)	abandoned	2613362.30	506068.63	1165.27	1166.11	FM	0.02	2.00	6.50	66.50	1099.61	10/20	32.00	36.00	1130.11	66.00	1100.11	68.00	1098.11	NA	NA	NA
MW-71B (Abandoned)	G-154545DO	2613382.62	506090.27	1165.38	1166.22	FM	0.02	2.00	6.50	66.50	1099.72	10/20	33.70	36.00	1130.22	66.00	1100.22	68.00	1098.22	NA	NA	NA
MW-72A	G-154545DN	2622930.98	512064.69	1170.37	1171.21	FM	0.02	2.00	6.50	108.50	1062.71	4/8	86.00	88.00	1083.21	108.00	1063.21	110.00	1061.21	NA	NA	NA
MW-72B	G-154545DM	2622921.73	512064.19	1169.92	1170.76	FM	0.02	2.00	6.50	70.50	1100.26	10/20	37.00	40.00	1130.76	70.00	1100.76	71.20	1099.56	NA	NA	NA

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		E-83	N-83	TOC-88	Ground					Bottom of Well		Filter	Depth to	Top of Screen		Bottom of Screen		Bottom of Boring		Top of Bedrock		Bedrock
ID	DNR registration No.	Easting (NAD83)	Northing (NAD 83)	TOC Elev (ft NAVD 88)	Surface Elev (ft NAVD 88)	STICK UP	SLOT SIZE	Well Dia. (inches)	Boring Dia. (inches)	Depth (ft bgs)	Elevation (ft NAVD88)	pack size	Top of Filter Pack (ft bgs)	Depth (ft bgs)	Elevation (ft NAVD88)	Depth (ft bgs)	Elevation (ft NAVD88)	Depth (ft bgs)	Elevation (ft NAVD88)	Depth (ft bgs)	Elevation (ft NAVD88)	Type
MW-73A	G-154545DL	2623060.93	511909.15	1166.95	1167.79	FM	0.02	2.00	6.50	108.50	1059.29	4/8	83.00	88.00	1079.79	108.00	1059.79	109.00	1058.79	NA	NA	NA
MW-73B	G-154545DK	2623052.30	511908.70	1166.90	1167.74	FM	0.02	2.00	6.50	70.50	1097.24	10/20	37.00	40.00	1127.74	70.00	1097.74	72.00	1095.74	NA	NA	NA
MW-74A (Abandoned	G-154545DJ	2623093.85	511934.84	1166.94	1167.78	FM	0.02	2.00	6.50	108.60	1059.18	4/8	85.50	88.10	1079.68	108.10	1059.68	110.00	1057.78	NA	NA	NA
MW-74B (Abandoned	G-154545DI	2623085.26	511934.80	1167.04	1167.88	FM	0.02	2.00	6.50	70.50	1097.38	10/20	37.00	40.00	1127.88	70.00	1097.88	71.00	1096.88	NA	NA	NA
MW-75A (Abandoned	G-154545DH	2623130.00	511962.35	1167.13	1167.97	FM	0.02	2.00	6.50	107.60	1060.37	4/8	86.10	87.10	1080.87	107.10	1060.87	110.00	1057.97	NA	NA	NA
MW-75B (Abandoned	G-154545DG	2623120.34	511961.81	1167.30	1168.14	FM	0.02	2.00	6.50	70.50	1097.64	10/20	38.20	40.00	1128.14	70.00	1098.14	71.00	1097.14	NA	NA	NA
MW-76A (Abandoned)	G-154545FQ	2623158.64	511983.32	1166.24	1167.08	FM	0.02	2.00	6.50	108.50	1058.58	4/8	86.20	88.00	1079.08	108.50	1058.58	110.00	1057.08	NA	NA	NA
MW-76B (Abandoned)	G-154545DF	2623148.91	511982.59	1166.48	1167.32	FM	0.02	2.00	6.50	71.00	1096.32	10/20	38.40	40.50	1126.82	70.50	1096.82	71.00	1096.32	NA	NA	NA
MW-77A (Abandoned)	G-154545DE	2623192.11	512008.01	1165.73	1166.57	FM	0.02	2.00	6.50	104.00	1062.57	4/8	81.30	83.50	1083.07	103.50	1063.07	107.00	1059.57	NA	NA	NA
MW-77B (Abandoned)	G-154545DD	2623180.56	512007.28	1165.79	1166.63	FM	0.02	2.00	6.50	70.50	1096.13	10/20	38.70	40.00	1126.63	70.00	1096.63	71.00	1095.63	NA	NA	NA
MW-78A	G-154545DC	2623223.84	512032.75	1165.27	1166.11	FM	0.02	2.00	6.50	105.50	1060.61	4/8	83.60	85.00	1081.11	105.00	1061.11	106.90	1059.21	NA	NA	NA
MW-78B	G-154545DB	2623213.77	512031.30	1165.35	1166.19	FM	0.02	2.00	6.50	70.50	1095.69	10/20	37.00	40.00	1126.19	70.00	1096.19	71.00	1095.19	NA	NA	NA
MW-79A (Abandoned)	G-141658A	2610432.14	492336.21	1109.34	1107.15	2.19	0.01	2.00	6.00	86.00	1021.15	NAT	71.00	76.00	1031.15	86.00	1021.15	86.00	1021.15	85.70	1021.45	SH
MW-79B (Abandoned)	G-141658B	2610428.14	492345.18	1109.39	1107.17	2.22	0.01	2.00	6.00	40.40	1066.77	20/40	27.90	30.20	1076.97	40.20	1066.97	40.40	1066.77	NP	NP	NP
MW-80A	G-141658C	2610925.54	492067.12	1107.43	1105.27	2.16	0.01	2.00	6.00	79.17	1026.10	NAT	67.10	69.17	1036.10	79.17	1026.10	79.17	1026.10	82.50	1022.77	SS
MW-80B	G-141658D	2610916.24	492064.59	1107.65	1105.46	2.19	0.01	2.00	6.00	40.00	1065.46	20/40	26.70	30.00	1075.46	40.00	1065.46	40.40	1065.06	NP	NP	NP
MW-80D	G-141658E	2610935.55	492068.65	1107.40	1105.22	2.18	0.02	2.00	6.00	92.70	1012.52	10\20	86.50	87.70	1017.52	92.70	1012.52	92.80	1012.42	82.50	1022.72	SS
MW-81A (Abandoned)	G-141658F	2611637.99	492369.38	1108.48	1106.30	2.18	0.01	2.00	6.00	92.00	1014.30	NAT	82.00	79.00	1027.30	92.00	1014.30	92.00	1014.30	94.20	1012.10	SS
MW-81B (Abandoned)	G-141658G	2611635.91	492360.36	1108.47	1106.29	2.18	0.01	2.00	6.00	38.40	1067.89	20/40	26.10	28.20	1078.09	38.20	1068.09	38.40	1067.89	NP	NP	NP
MW-81D (Abandoned)	G-141658H	2611633.37	492349.85	1108.53	1106.40	2.13	0.02	2.00	6.00	104.60	1001.80	10/20	97.80	99.10	1007.30	104.10	1002.30	104.60	1001.80	94.20	1012.20	SS
MW-82A	G-141124A	2619288.65	493318.05	1149.14	1147.10	2.04	0.02	2.00	6.00	94.50	1052.60	NAT	67.20	89.50	1057.60	94.50	1052.60	94.75	1052.35	NP	NP	NP
MW-82B	G-141124B	2619284.94	493325.47	1149.12	1147.20	1.92	0.01	2.00	6.00	66.50	1080.70	12/20	58.90	61.20	1086.00	65.70	1081.50	66.40	1080.80	NP	NP	NP
MW-82D	G-141124C	2619293.00	493310.90	1149.22	1147.10	2.12	0.02	2.00	6.00	125.50	1021.60	12/20	117.50	120.00	1027.10	125.00	1022.10	125.75	1021.35	112.00	1035.10	SS
MW-83A	G-141124D	2621924.08	495274.66	1152.41	1150.20	2.21	0.02	2.00	6.00	109.00	1041.20	NAT	103.00	103.50	1046.70	108.50	1041.70	110.00	1040.20	NP	NP	NP
MW-83B	G-141124E	2621921.79	495302.77	1152.28	1150.40	1.88	0.01	2.00	6.00	80.00	1070.40	12/20	72.70	75.00	1075.40	80.00	1070.40	80.00	1070.40	NP	NP	NP
MW-83D	G-141124F	2621922.97	495288.85	1152.32	1150.30	2.02	0.02	2.00	6.00	122.50	1027.80	12/20	113.70	116.00	1034.30	121.00	1029.30	122.50	1027.80	111.00	1039.30	SS
MW-84A	G-141124G	2624277.77	495685.51	1145.34	1143.20	2.14	0.02	2.00	6.00	91.65	1051.55	NAT	86.30	87.13	1056.07	91.13	1052.07	91.65	1051.55	NP	NP	NP
MW-84AR (Abandoned)	abandoned	2624273.89	495704.26	1145.26	1143.20	2.06	0.02	2.00	6.00	103.00	1040.20	NAT	96.50	97.50	1045.70	102.50	1040.70	103.00	1040.20	102.50	1040.70	SS
MW-84B	G-141124I	2624272.04	495712.90	1145.62	1143.30	2.32	0.01	2.00	6.00	72.00	1071.30	12/20	64.70	66.50	1076.80	71.50	1071.80	72.00	1071.30	NP	NP	NP
MW-84D	G-141124J	2624275.75	495695.58	1145.37	1143.20	2.17	0.02	2.00	6.00	110.00	1033.20	12/20	100.80	103.50	1039.70	108.50	1034.70	110.00	1033.20	97.50	1045.70	SS
MW-85A	G-141124K	2628326.53	494439.02	1132.58	1130.50	2.08	0.01	2.00	6.00	86.00	1044.50	NAT	80.50	81.00	1049.50	86.00	1044.50	87.00	1043.50	86.00	1044.50	SS
MW-85B	G-141124L	2628315.15	494449.81	1132.39	1130.40	1.99	0.02	2.00	6.00	66.30	1064.10	12/20	60.00	62.00	1068.40	67.00	1063.40	66.30	1064.10	NP	NP	NP
MW-85D	G-141124M	2628338.54	494428.03	1132.59	1130.40	2.19	0.02	2.00	6.00	96.00	1034.40	12/20	87.85	90.00	1040.40	95.00	1035.40	96.35	1034.05	84.50	1045.90	SS
MW-86A	G-144684A	2631939.21	493759.74	1114.15	1111.78	2.37	0.01	2.00	8.50	62.50	1049.28	NAT	49.75	52.50	1059.28	62.50	1049.28	63.50	1048.28			
MW-86B	G-144684B	2631933.61	493758.65	1114.58	1112.08	2.50	0.01	2.00	8.50	54.00	1058.08	20/40	41.00	43.00	1069.08	53.00	1059.08	54.00	1058.08			
MW-86D	G-144684C	2631944.47	493760.43	1113.90	1111.48	2.42	0.02	2.00	6.00	74.50	1036.98	10/20	67.50	68.98	1042.50	74.50	1036.98	75.20	1036.28	63.00	1048.48	SS
MW-87A (Abandoned)	G-144683A	2635039.81	491898.03	1078.38	1075.83	2.55	0.01	2.00	8.50	46.00	1029.83	NAT	34.00	36.00	1039.83	46.00	1029.83	47.00	1028.83			
MW-87B (Abandoned)	G-144683B	2635035.21	491900.97	1078.38	1075.83	2.55	0.01	2.00	8.50	27.00	1048.83	20/40	15.00	17.00	1058.83	27.00	1048.83	28.00	1047.83			

Table 2-1
USACE Monitoring Well and Observation Well Construction Details
2012 Groundwater Model Update
Former Nebraska Ordnance Plant, Mead, Nebraska

		E-83	N-83	TOC-88	Ground					Bottom of Well		Filter	Depth to	Top of Screen		Bottom of Screen		Bottom of Boring		Top of Bedrock		Bedrock
ID	DNR registration No.	Easting (NAD83)	Northing (NAD 83)	TOC Elev (ft NAVD 88)	Surface Elev (ft NAVD 88)	STICK UP	SLOT SIZE	Well Dia. (inches)	Boring Dia. (inches)	Depth (ft bgs)	Elevation (ft NAVD88)	pack size	Top of Filter Pack (ft bgs)	Depth (ft bgs)	Elevation (ft NAVD88)	Depth (ft bgs)	Elevation (ft NAVD88)	Depth (ft bgs)	Elevation (ft NAVD88)	Depth (ft bgs)	Elevation (ft NAVD88)	Type
MW-87D (Abandoned)	G-144683C	2635044.01	491895.21	1078.39	1075.83	2.56	0.02	2.00	6.00	55.60	1020.23	10/20	49.40	50.10	1025.73	55.60	1020.23	65.00	1010.83	46.00	1029.83	SS
MW-88A	G-144663A	2637643.92	494045.13	1081.22	1078.71	2.51	0.01	2.00	8.50	45.00	1033.71	NAT	33.00	35.00	1043.71	45.00	1033.71	46.00	1032.71			
MW-88B	G-144663B	2637639.18	494044.21	1081.27	1078.71	2.56	0.01	2.00	8.50	30.00	1048.71	20/40	18.00	20.00	1058.71	30.00	1048.71	31.00	1047.71			
MW-88D	G-144663C	2637648.62	494046.08	1081.30	1078.71	2.59	0.02	2.00	6.00	57.50	1021.21	10/20	49.50	50.50	1028.21	55.50	1023.21	57.50	1021.21	45.00	1033.71	SS
MW-89A	G-141658I	2610430.84	494253.88	1160.99	1158.81	2.18	0.02	2.00	6.00	139.20	1019.61	NAT	126.80	129.20	1029.61	139.20	1019.61	139.20	1019.61	NP	NP	NP
MW-89B	G-141658J	2610408.69	494254.10	1161.37	1159.20	2.17	0.01	2.00	6.00	75.70	1083.50	20/40	63.00	65.00	1094.20	75.70	1083.50	75.70	1083.50	NP	NP	NP
MW-89D	G-141658K	2610451.41	494254.27	1160.65	1158.55	2.10	0.02	2.00	6.00	150.60	1007.95	10/20	143.10	145.00	1013.55	150.60	1007.95	150.60	1007.95	125.00	1033.55	SS
MW-89E	G-157027A	2610466.38	494253.06	1157.24	1161.43	-0.55	0.01	2.00	6.00	95.00	1066.43	NAT	82.30	85.00	1076.43	95.00	1066.43	95.00	1066.43	NP	NP	NP
MW-90A	G-141658L	2611235.54	494302.04	1151.11	1148.94	2.17	0.01	2.00	8.00	123.40	1025.54	NAT	123.40	112.20	1036.74	123.40	1025.54	123.40	1025.54	NP	NP	NP
MW-90B	G-141658M	2611226.60	494297.96	1150.77	1148.60	2.17	0.01	2.00	6.00	75.45	1073.15	20/40	63.50	65.35	1083.25	75.45	1073.15	75.45	1073.15	NP	NP	NP
MW-90D	G-141658N	2611244.85	494306.05	1151.44	1149.25	2.19	0.02	2.00	6.00	135.20	1014.05	10/20	129.10	130.20	1019.05	135.20	1014.05	135.20	1014.05	125.20	1024.05	SS
MW-91A	G-141658O	2612076.97	494323.00	1152.04	1149.85	2.19	0.01	2.00	8.00	119.20	1030.65	10/20	106.70	109.20	1040.65	119.20	1030.65	119.20	1030.65	NA	NP	NA
MW-91B	G-141658P	2612067.85	494317.53	1151.87	1149.66	2.21	0.01	2.00	6.00	77.60	1072.06	20/40	65.50	67.60	1082.06	77.60	1072.06	78.10	1071.56	NA	NP	NA
MW-91D	G-141658Q	2612085.70	494327.97	1151.95	1149.78	2.17	0.02	2.00	6.00	130.20	1019.58	10/20	124.00	125.20	1024.58	130.20	1019.58	130.60	1019.18	120.00	1029.78	SH
MW-92A (Abandoned)	G-141658R	2610047.26	492722.58	1108.78	1106.58	2.20	0.01	2.00	6.00	82.16	1024.42	NAT	70.20	72.16	1034.42	82.16	1024.42	82.16	1024.42	82.50	1024.08	SH
MW-92B (Abandoned)	G-141658S	2610047.80	492733.82	1108.65	1106.44	2.21	0.01	2.00	6.00	40.10	1066.34	20/40	28.00	30.10	1076.34	40.10	1066.34	40.80	1065.64	NP	NP	NP
MW-93A	G-141658T	2612162.89	493551.29	1124.26	1122.07	2.19	0.01	2.00	6.00	94.20	1027.87	20/40	82.20	84.20	1037.87	94.20	1027.87	94.20	1027.87	95.00	1027.07	SH
MW-93B	G-141658U	2612154.07	493546.80	1123.90	1121.70	2.20	0.01	2.00	6.00	70.00	1051.70	10/20	56.20	60.00	1061.70	70.00	1051.70	70.30	1051.40	NP	NP	NP
MW-94A	G-144677A	2617023.16	496428.72	1153.06	1150.75	2.31	0.01	2.00	8.50	94.00	1056.75	NAT	81.60	84.00	1066.75	94.00	1056.75	95.00	1055.75			
MW-94B	G-144677B	2617023.07	496434.50	1153.09	1150.56	2.53	0.01	2.00	8.50	74.00	1076.56	20/40	62.00	64.00	1086.56	74.00	1076.56	75.00	1075.56			
MW-94D (Abandoned)	G-144677C	2617023.47	496422.56	1153.25	1150.82	2.43	0.02	2.00	6.00	121.40	1029.42	10/20	114.80	115.90	1034.92	121.40	1029.42	125.00	1025.82	110.50	1040.32	SH
MW-95A	G-144678A	2617552.81	494508.64	1156.81	1154.32	2.49	0.01	2.00	8.50	104.00	1050.32	NAT	91.00	93.00	1061.32	103.00	1051.32	104.00	1050.32			
MW-95B	G-144678B	2617546.97	494508.01	1156.46	1154.15	2.31	0.01	2.00	8.50	76.00	1078.15	20/40	62.50	65.00	1089.15	75.00	1079.15	76.00	1078.15			
MW-95D	G-144678C	2617558.46	494509.13	1156.82	1154.45	2.37	0.02	2.00	6.00	130.00	1024.45	10/20	123.70	124.50	1029.95	129.50	1024.95	130.00	1024.45	118.00	1036.45	SH
MW-96A	G-144679A	2621468.23	493387.73	1148.56	1146.00	2.56	0.01	2.00	8.50	92.50	1053.50	NAT	80.10	82.50	1063.50	92.50	1053.50	93.50	1052.50			
MW-96B	G-144679B	2621468.23	493387.80	1148.56	1146.00	2.56	0.01	2.00	8.50	81.00	1065.00	20/40	69.00	71.00	1075.00	81.00	1065.00	82.50	1063.50			
MW-96D	G-144679C	2621476.25	493387.89	1148.58	1146.00	2.58	0.02	2.00	6.00	106.50	1039.50	10/20	100.60	101.50	1044.50	106.00	1040.00	110.00	1036.00	96.50	1049.50	SS
MW-97A	G-144680A	2623938.04	493492.83	1143.08	1140.60	2.48	0.01	2.00	8.50	93.00	1047.60	NAT	81.00	83.00	1057.60	93.00	1047.60	94.00	1046.60			
MW-97B	G-144680B	2623932.70	493492.45	1143.18	1140.60	2.58	0.01	2.00	8.50	73.00	1067.60	20/40	66.00	68.00	1072.60	73.00	1067.60	74.00	1066.60			
MW-97D	G-144680C	2623943.48	493493.13	1143.18	1140.60	2.58	0.02	2.00	6.00	105.50	1035.10	10/20	99.00	99.98	1040.62	105.50	1035.10	106.00	1034.60	94.00	1046.60	SS
MW-98A	G-144681A	2626495.30	493604.94	1141.52	1139.00	2.52	0.01	2.00	8.50	92.00	1047.00	NAT	80.00	82.00	1057.00	92.00	1047.00	94.00	1045.00			
MW-98B	G-144681B	2626488.71	493605.28	1141.58	1139.00	2.58	0.01	2.00	8.50	69.00	1070.00	20/40	63.00	64.00	1075.00	69.00	1070.00	75.00	1064.00			
MW-98D	G-144681C	2626502.36	493605.21	1141.58	1139.00	2.58	0.02	2.00	6.00	105.00	1034.00	10/20	96.00	97.00	1042.00	102.00	1037.00	105.00	1034.00	92.00	1047.00	SS
MW-99A	G-144682A	2627117.43	498780.95	1163.04	1160.69	2.35	0.01	2.00	8.50	112.00	1048.69	NAT	99.50	102.00	1058.69	112.00	1048.69	112.00	1048.69			
MW-99B	G-144682B	2627118.41	498787.93	1163.19	1160.87	2.32	0.01	2.00	8.50	86.00	1074.87	20/40	73.00	75.00	1085.87	85.00	1075.87	86.00	1074.87			
MW-99D	G-144682C	2627116.78	498773.69	1162.76	1160.38	2.38	0.02	2.00	6.00	125.00	1035.38	10/20	117.50	118.50	1041.88	123.50	1036.88	125.00	1035.38	112.00	1048.38	SS
MW-100A	G-144662A	2629718.84	493770.41	1141.18	1138.60	2.58	0.01	2.00	8.50	93.00	1045.60	NAT	81.00	83.00	1055.60	93.00	1045.60	105.00	1033.60	94.00	1044.60	SS
MW-100B	G-144662B	2629718.07	493777.19	1141.12	1138.60	2.52	0.01	2.00	8.50	75.00	1063.60	20/40	62.80	65.00	1073.60	75.00	1063.60	76.00	1062.60			
MW-100D	G-144662C	2629718.36	493783.73	1141.22	1138.60	2.62	0.02	2.00	6.00	104.90	1033.70	#5	97.50	99.90	1038.70	104.90	1033.70	110.00	1028.60	94.00	1044.60	SS
MW-101A	G-143845A	2610929.39	491574.12	1107.43	1104.99	2.44	0.01	2.00	8.50	93.00	1011.99	NAT	81.00	83.00	1021.99	93.00	1011.99	105.00	999.99			
MW-101B	G-143845C	2610923.62	491573.82	1107.44	1104.99	2.45	0.01	2.00	8.50	40.00	1064.99	20/40	28.00	30.00	1074.99	40.00	1064.99	41.00	1063.99			
MW-101D	G-144676	2610935.30	491574.49	1107.45	1104.99	2.46	0.02	2.00	6.00	96.20	1008.79	10/20	88.00	90.00	1014.99	95.00	1009.99	96.20	1008.79	83.00	1021.99	SS
MW-102A	G-144675A	2622929.38	514541.24	1170.90	1168.76	2.14	0.01	2.00	8.50	127.00	1041.76	NAT	115.00	117.00	1051.76	127.00	1041.76	128.00	1040.76			
MW-102B	G-144675B	2622923.37	514540.93	1171.13	1168.76	2.37	0.01	2.00	8.50	60.00	1108.76	20/40	46.00	50.00	1118.76	60.00	1108.76	61.00	1107.76			
MW-102D (Abandoned)	G-154545BC	2622935.91	514541.49	1171.08	1168.76	2.32	0.02	2.00	6.00	139.50	1029.26	10/20	133.00	134.50	1034.26	139.50	1029.26	141.50	1027.26	128.00	1040.76	SS
MW-103A	G-143845D	2623590.77	513115.79	1173.58	1171.11	2.47	0.01	2.00	8.50	126.50	1044.61	NAT	112.00	116.00	1055.11	126.00	1045.11	126.50	1044.61			
MW-103B	G-143845E	2623591.23	513110.25	1173.80	1171.36	2.44	0.01	2.00	8.50	60.00	1111.36	20/40	48.00	50.00	1121.36	60.00	1111.36	60.00	1111.36			
MW-103D	G-144661	2623589.45	513132.90	1173.22	1170.78	2.44	0.02	2.00	6.00	135.70	1035.08	10/20	128.50	130.00	1040.78	135.00	1035.78	135.70	1035.08	126.00	1040.76	SS
MW-104O	G-152732A	2634073.87	499205.00	1081.69	1078.59	3.10	0.01	2.00	8.00	7.50	1071.09	20-40	5.00	5.30	1073.29	7.30	1071.29	7.50	1071.09	NP	NP	NP
MW-104B	G-152732B	2634082.83	499205.61	1081.27	1078.38	2.89	0.01	2.00	8.00	25.10	1053.28	20-40	12.80	15.10	1063.28	24.60	1053.78	25.50	1052.88	NP	NP	NP

Table 2-1
USACE Monitoring Well and Observation Well Construction Details
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Former Nebraska Ordnance Plant, Mead, Nebraska

		E-83	N-83	TOC-88	Ground					Bottom of Well		Filter	Depth to	Top of Screen		Bottom of Screen		Bottom of Boring		Top of Bedrock		Bedrock
ID	DNR registration No.	Easting (NAD83)	Northing (NAD 83)	TOC Elev (ft NAVD 88)	Surface Elev (ft NAVD 88)	STICK UP	SLOT SIZE	Well Dia. (inches)	Boring Dia. (inches)	Depth (ft bgs)	Elevation (ft NAVD88)	pack size	Top of Filter Pack (ft bgs)	Depth (ft bgs)	Elevation (ft NAVD88)	Depth (ft bgs)	Elevation (ft NAVD88)	Depth (ft bgs)	Elevation (ft NAVD88)	Depth (ft bgs)	Elevation (ft NAVD88)	Type
MW-104A	G-152732C	2634092.18	499205.59	1081.26	1078.50	2.76	0.01	2.00	8.00	41.20	1037.30	natural	28.80	31.10	1047.40	40.60	1037.90	41.40	1037.10	40.50	1038.00	SS
MW-104D	G-152732D	2634100.80	499205.35	1081.87	1078.81	3.07	0.02	2.00	8.00	49.60	1029.21	10-20	43.40	44.60	1034.21	49.10	1029.71	50.30	1028.51	40.50	1038.31	SS
MW-105O	G-152732E	2635040.67	496662.29	1080.04	1076.73	3.31	0.01	2.00	8.00	6.70	1070.03	20-40	4.90	5.00	1071.73	6.60	1070.13	7.10	1069.63	NP	NP	NP
MW-105B	G-152732F	2635042.34	496652.98	1079.77	1076.72	3.05	0.01	2.00	8.00	24.95	1051.77	20-40	12.60	14.75	1061.97	24.25	1052.47	25.10	1051.62	NP	NP	NP
MW-105A	G-152732G	2635041.98	496642.99	1079.60	1076.84	2.76	0.01	2.00	8.00	40.26	1036.58	natural	27.81	30.17	1046.67	39.67	1037.17	40.50	1036.34	40.30	1036.54	SS
MW-106A	G-144674A	2630544.55	506843.26	1118.06	1115.50	2.56	0.01	2.00	8.50	67.00	1048.50	NAT	55.00	57.00	1058.50	67.00	1048.50	68.00	1047.50			
MW-106B	G-144674B	2630539.26	506844.10	1117.98	1115.50	2.48	0.01	2.00	8.50	35.00	1080.50	20/40	23.00	25.00	1090.50	35.00	1080.50	36.00	1079.50			
MW-106D (Abandoned)	G-144674C	2630549.50	506842.72	1118.18	1115.50	2.68	0.02	2.00	6.00	79.00	1036.50	10/20	72.80	74.00	1041.50	79.00	1036.50	80.00	1035.50	68.00	1047.50	SS
MW-107A	G-144667A	2631375.72	506138.76	1135.79	1136.12	-0.33	0.01	2.00	8.50	88.00	1048.12	NAT	75.40	78.00	1058.12	88.00	1048.12	89.00	1047.12			
MW-107B	G-144667B	2631374.08	506125.16	1136.72	1136.95	-0.23	0.01	2.00	8.50	55.00	1081.95	20/40	43.00	45.00	1091.95	55.00	1081.95	56.00	1080.95			
MW-107D	G-144667C	2631375.03	506131.87	1136.35	1136.70	-0.35	0.02	2.00	6.00	100.50	1036.20	10/20	94.20	95.50	1041.20	100.50	1036.20	101.50	1035.20	89.20	1047.50	SS
MW-108A (Abandoned)	G-144666A	2631915.55	505912.28	1126.74	1126.95	-0.21	0.01	2.00	8.50	81.00	1045.95	NAT	69.00	71.00	1055.95	81.00	1045.95	82.00	1044.95			
MW-108B (Abandoned)	G-144666B	2631917.07	505899.47	1126.98	1127.28	-0.30	0.01	2.00	8.50	45.00	1082.28	20/40	33.00	35.00	1092.28	45.00	1082.28	46.00	1081.28			
MW-108D (Abandoned)	G-144666C	2631916.34	505906.33	1126.87	1127.11	-0.24	0.02	2.00	6.00	93.50	1033.61	10/20	87.00	88.50	1038.61	93.50	1033.61	95.50	1031.61	81.50	1045.61	SS
MW-109O	G-152732H	2634805.17	501911.81	1085.88	1083.06	2.82	0.01	2.00	8.00	9.50	1073.56	20-40	6.50	6.70	1076.36	9.20	1073.86	9.50	1073.56	NP	NP	NP
MW-109B	G-152732I	2634805.75	501904.25	1085.98	1083.11	2.87	0.01	2.00	8.00	29.30	1053.81	20-40	17.10	19.20	1063.91	28.70	1054.41	30.50	1052.61	NP	NP	NP
MW-109A	G-152732J	2634807.18	501896.06	1086.25	1083.19	3.07	0.01	2.00	8.00	46.95	1036.24	natural	34.40	36.85	1046.34	46.35	1036.84	46.95	1036.24	46.70	1036.49	SS
MW-110A	G-143845F	2634397.71	504432.79	1094.10	1091.71	2.39	0.01	2.00	8.50	45.00	1046.71	NAT	36.50	39.50	1052.21	44.50	1047.21	45.00	1046.71			
MW-110B	G-143845G	2634397.16	504438.89	1094.49	1092.01	2.48	0.01	2.00	8.50	28.50	1063.51	20/40	20.00	23.00	1069.01	28.00	1064.01	28.50	1063.51			
MW-110D	G-144670	2634398.64	504425.93	1094.36	1091.71	2.65	0.02	2.00	6.00	55.00	1036.71	10/20	49.00	50.00	1041.71	55.00	1036.71	57.00	1034.71	44.75	1046.96	SS
MW-111O	G-152732K	2636152.14	499356.67	1082.48	1079.40	3.08	0.01	2.00	8.00	6.80	1072.60	20-40	4.80	5.00	1074.40	6.50	1072.90	7.00	1072.40	NP	NP	NP
MW-111B	G-152732L	2636151.75	499348.24	1082.61	1079.42	3.19	0.01	2.00	8.00	24.60	1054.82	20-40	12.30	14.50	1064.92	24.00	1055.42	25.00	1054.42	NP	NP	NP
MW-111A	G-152732M	2636151.56	499337.97	1082.82	1079.82	3.00	0.01	2.00	8.00	41.33	1038.49	natural	29.10	31.23	1048.59	40.73	1039.09	41.33	1038.49	40.20	1039.62	SS
MW-112A	G-144669	2637365.72	501825.77	1082.03	1082.38	2.20	0.01	2.00	8.50	48.00	1034.38	NAT	40.50	42.50	1039.88	47.50	1034.88	56.00	1026.38	48.00	1034.38	SH
MW-112B	G-143845H	2637365.30	501832.67	1082.02	1082.38	2.20	0.01	2.00	8.50	26.00	1056.38	20/40	19.80	21.00	1061.38	26.00	1056.38	26.50	1055.88			
MW-113A	G-143845I	2637420.11	500472.22	1080.47	1080.82	2.20	0.01	2.00	8.50	41.00	1039.82	NAT	35.00	36.00	1044.82	41.00	1039.82	42.00	1038.82			
MW-113B	G-143845J	2637419.51	500477.68	1080.42	1080.82	2.20	0.01	2.00	8.50	31.00	1049.82	20/40	25.00	26.00	1054.82	31.00	1049.82	32.00	1048.82			
MW-113D	G-144668	2637420.34	500466.05	1080.49	1080.82	2.20	0.02	2.00	6.00	55.50	1025.32	10/20	48.00	48.70	1032.12	53.70	1027.12	55.50	1025.32	41.50	1039.32	SS
MW-114A	G-144665A	2637470.60	497206.93	1080.32	1077.87	2.20	0.01	2.00	8.50	47.00	1030.87	NAT	32.80	37.00	1040.87	47.00	1030.87	48.00	1029.87			
MW-114B	G-144665B	2637465.73	497204.32	1080.43	1077.87	2.20	0.01	2.00	8.50	30.00	1047.87	20/40	17.80	20.00	1057.87	30.00	1047.87	31.00	1046.87			
MW-114D	G-144665C	2637475.70	497209.79	1080.23	1077.87	2.20	0.02	2.00	6.00	58.00	1019.87	10/20	51.90	52.44	1025.43	58.00	1019.87	60.00	1017.87	48.00	1029.87	SS
MW-115A	G-144672A	2637702.52	495346.88	1081.67	1079.36	2.20	0.01	2.00	8.50	48.00	1031.36	NAT	41.10	43.00	1036.36	48.00	1031.36	49.00	1030.36			
MW-115B	G-144672B	2637696.42	495346.87	1081.77	1079.36	2.20	0.01	2.00	8.50	33.00	1046.36	20/40	26.00	28.00	1051.36	33.00	1046.36	34.00	1045.36			
MW-115D	G-144672C	2637708.86	495346.84	1081.66	1079.36	2.20	0.02	2.00	6.00	59.40	1019.96	10/20	53.00	53.89	1025.47	59.40	1019.96	60.00	1019.36	49.00	1030.36	SS
MW-116A	G-144673A	2636335.80	495297.60	1080.53	1078.07	2.20	0.01	2.00	8.50	42.50	1035.57	NAT	35.75	37.50	1040.57	42.50	1035.57	43.50	1034.57			
MW-116B	G-144673B	2636331.54	495297.24	1080.49	1078.07	2.20	0.01	2.00	8.50	32.00	1046.07	20/40	24.90	27.00	1051.07	32.00	1046.07	33.00	1045.07			
MW-116D	G-144673C	2636334.22	495293.68	1080.46	1078.07	2.20	0.02	2.00	6.00	53.50	1024.57	10/20	47.00	47.98	1030.09	53.50	1024.57	55.00	1023.07	43.00	1035.07	SS
MW-117A (Abandoned)	G-144664A	2631041.42	495048.00	1122.26	1122.36	2.20	0.01	2.00	8.50	76.00	1046.36	NAT	63.50	66.00	1056.36	76.00	1046.36	76.00	1046.36			
MW-117B (Abandoned)	G-144664B	2631040.50	495053.98	1122.06	1122.36	2.20	0.01	2.00	8.50	53.00	1069.36	20/40	40.90	43.00	1079.36	53.00	1069.36	54.00	1068.36			
MW-117D (Abandoned)	G-144664C	2631042.35	495042.20	1122.41	1122.36	2.20	0.02	2.00	6.00	86.50	1035.86	10/20	80.00	81.50	1040.86	86.50	1035.86	95.00	1027.36	76.00	1046.36	SS
MW-118A	G-144671A	2625890.45	496207.70	1143.87	1141.67	2.20	0.01	2.00	8.50	95.25	1046.42	NAT	83.00	84.75	1056.92	95.25	1046.42	105.00	1036.67	97.00	1044.67	SH
MW-118B	G-144671B	2625884.54	496207.84	1143.91	1141.81	2.10	0.01	2.00	8.50	75.00	1066.81	20/40	68.00	70.00	1071.81	75.00	1066.81	76.00	1065.81			
MW-119B	G-152732N	2607941.55	499593.35	1159.28	1159.66	-0.38	0.01	2.00	8.00	84.10	1075.56	20-40	71.80	74.00	1085.66	83.50	1076.16	84.50	1075.16	NP	NP	NP
MW-119A	G-152733	2607952.61	499580.81	1159.14	1159.38	-0.24	0.01	2.00	6.00	129.60	1029.78	natural	116.50	119.70	1039.68	129.20	1030.18	137.00	1022.38	129.90	1029.48	SS
MW-120B	G-152732O	2609372.70	499438.97	1166.33	1166.51	-0.17	0.01	2.00	8.00	75.60	1090.91	20-40	63.00	65.50	1101.01	75.00	1091.51	77.00	1089.51	NP	NP	NP
MW-120E	G-152732P	2609372.68	499430.79	1166.43	1166.76	-0.34	0.01	2.00	8.00	105.20	1061.56	20-40	92.90	95.30	1071.46	104.80	1061.96	105.50	1061.26	NP	NP	NP
MW-120A	G-152765	2609372.30	499419.07	1166.32	1166.72	-0.40	0.01	2.00	6.00	138.60	1028.12	natural	125.00	128.70	1038.02	138.20	1028.52	148.00	1018.72	138.10	1028.62	SS
MW-120D	G-152766	2609371.09	499409.47	1166.62	1166.88	-0.26	0.02	2.00	6.00	148.80	1018.08	10-20	142.00	144.00	1022.88	148.40	1018.48	150.00	1016.88	138.00	1028.88	SS

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		E-83	N-83	TOC-88	Ground					Bottom of Well		Filter	Depth to	Top of Screen		Bottom of Screen		Bottom of Boring		Top of Bedrock		Bedrock
ID	DNR registration No.	Easting (NAD83)	Northing (NAD 83)	TOC Elev (ft NAVD 88)	Surface Elev (ft NAVD 88)	STICK UP	SLOT SIZE	Well Dia. (inches)	Boring Dia. (inches)	Depth (ft bgs)	Elevation (ft NAVD88)	pack size	Top of Filter Pack (ft bgs)	Depth (ft bgs)	Elevation (ft NAVD88)	Depth (ft bgs)	Elevation (ft NAVD88)	Depth (ft bgs)	Elevation (ft NAVD88)	Depth (ft bgs)	Elevation (ft NAVD88)	Type
MW-121B	G-152732Q	2609779.26	500071.59	1170.13	1170.48	-0.35	0.01	2.00	8.00	85.80	1084.68	20-40	73.40	75.70	1094.78	85.20	1085.28	86.60	1083.88	NP	NP	NP
MW-121E	G-152732R	2609763.30	500071.29	1170.07	1170.27	-0.21	0.01	2.00	8.00	115.60	1054.67	natural	103.70	105.50	1064.77	115.00	1055.27	116.00	1054.27	NP	NP	NP
MW-121A	G-152767	2609752.79	500071.02	1170.04	1170.27	-0.23	0.01	2.00	6.00	142.50	1027.77	natural	130.00	132.60	1037.67	142.10	1028.17	152.00	1018.27	141.80	1028.47	SS
MW-122B	G-152732S	2609232.29	498114.61	1166.52	1166.89	-0.37	0.01	2.00	8.00	107.80	1059.09	20-40	94.30	97.60	1069.29	107.10	1059.79	108.50	1058.39	NP	NP	NP
MW-122A	G-152734	2609240.41	498101.34	1165.76	1166.25	-0.49	0.01	2.00	6.00	138.40	1027.85	natural	126.00	128.50	1037.75	138.00	1028.25	142.00	1024.25	138.00	1028.25	SH
MW-123B	G-152732T	2608666.00	499909.02	1168.97	1169.33	-0.35	0.01	2.00	8.00	100.20	1069.13	20-40	86.90	90.10	1079.23	99.60	1069.73	100.40	1068.93	NP	NP	NP
MW-123A	G-152735	2608677.91	499909.07	1168.99	1169.28	-0.30	0.01	2.00	6.00	141.70	1027.58	natural	127.50	131.80	1037.48	141.30	1027.98	147.00	1022.28	141.90	1027.38	SS
MW-124B	G-152732U	2609107.79	501496.31	1161.59	1162.12	-0.53	0.01	2.00	8.00	79.80	1082.32	20-40	66.80	69.70	1092.42	79.20	1082.92	80.50	1081.62	NP	NP	NP
MW-124A	G-152732V	2609115.81	501486.16	1161.89	1162.25	-0.36	0.01	2.00	8.00	110.40	1051.85	natural	96.80	100.30	1061.95	109.80	1052.45	110.50	1051.75	NP	NP	NP
MW-124D	G-152736	2609125.65	501475.69	1161.82	1162.24	-0.42	0.02	2.00	6.00	126.10	1036.14	10-20	118.80	121.30	1040.94	125.70	1036.54	127.00	1035.24	115.10	1047.14	SH
MW-125B	G-152732W	2609468.11	500661.63	1162.14	1162.54	-0.40	0.01	2.00	8.00	86.80	1075.74	20-40	74.00	76.70	1085.84	86.20	1076.34	87.30	1075.24	NP	NP	NP
MW-125A	G-152732X	2609457.06	500663.23	1162.05	1162.35	-0.30	0.01	2.00	8.00	128.00	1034.35	natural	115.60	117.90	1044.45	127.40	1034.95	128.50	1033.85	127.50	1034.85	SH
MW-125D	G-152737	2609446.30	500664.74	1161.52	1161.80	-0.28	0.02	2.00	6.00	139.20	1022.60	10-20	132.40	134.40	1027.40	138.80	1023.00	140.00	1021.80	127.50	1034.30	SH
MW-126B	G-152732Y	2607482.56	504514.66	1171.29	1171.60	-0.31	0.01	2.00	8.00	92.50	1079.10	20-40	78.80	82.30	1089.30	91.80	1079.80	93.20	1078.40	NP	NP	NP
MW-126A	G-152732Z	2607483.63	504504.82	1170.87	1171.21	-0.34	0.01	2.00	8.00	122.40	1048.81	natural	109.90	112.30	1058.91	121.80	1049.41	123.10	1048.11	NP	NP	NP
MW-126D	G-152768	2607483.02	504494.77	1170.26	1170.71	-0.45	0.02	2.00	6.00	153.60	1017.11	10-20	146.50	148.80	1021.91	153.20	1017.51	154.00	1016.71	141.50	1029.21	SS
MW-127E	G-152732AA	2606121.31	506941.60	1169.40	1169.84	-0.43	0.01	2.00	8.00	61.70	1108.14	20-40	48.30	51.60	1118.24	61.10	1108.74	61.90	1107.94	NP	NP	NP
MW-127B	G-152732AB	2606121.65	506931.42	1169.37	1169.66	-0.29	0.01	2.00	8.00	82.00	1087.66	20-40	67.60	71.90	1097.76	81.40	1088.26	82.80	1086.86	NP	NP	NP
MW-127A	G-152738	2606121.55	506918.35	1168.95	1169.30	-0.35	0.01	2.00	6.00	128.40	1040.90	natural	117.50	118.50	1050.80	128.00	1041.30	137.00	1032.30	128.50	1040.80	SH
MW-128A	G-152715D	2624836.13	498190.80	1156.97	1154.26	2.71	0.01	2.00	8.00	106.20	1048.06	NAT	93.00	96.20	1058.06	106.20	1048.06	106.20	1048.06	NP	NP	NP
MW-128B	G-152715E	2624838.49	498197.84	1156.94	1154.30	2.64	0.01	2.00	8.00	90.10	1064.20	20/40	77.90	79.50	1074.80	90.10	1064.20	90.10	1064.20	NP	NP	NP
MW-128D (Abandoned)	G-152957A	2624833.49	498183.94	1156.84	1154.10	2.74	0.02	2.00	6.00	117.00	1037.10	10/20	109.50	112.00	1042.10	117.00	1037.10	117.00	1037.10	107.40	1046.70	SS
MW-129A	G-152715F	2627766.39	496542.43	1149.77	1146.77	3.00	0.01	2.00	8.00	99.50	1047.27	NAT	86.00	89.50	1057.27	99.50	1047.27	99.50	1047.27	NP	NP	NP
MW-129B	G-152715G	2627771.40	496545.39	1149.72	1146.79	2.93	0.01	2.00	8.00	84.10	1062.69	10/20	72.00	74.10	1072.69	84.10	1062.69	84.10	1062.69	NP	NP	NP
MW-129D	G-152957B	2627759.96	496536.62	1149.46	1146.52	2.94	0.02	2.00	6.00	112.00	1034.52	10/20	104.00	106.00	1040.52	111.00	1035.52	112.00	1034.52	101.00	1045.52	SS
MW-130A	G-152715H	2629053.38	496650.27	1145.47	1143.16	2.31	0.01	2.00	8.00	99.00	1044.16	NAT	87.00	89.00	1054.16	99.00	1044.16	99.00	1044.16	NP	NP	NP
MW-130B	G-152715I	2629059.01	496659.85	1145.92	1143.22	2.70	0.01	2.00	8.00	79.90	1063.32	10/20	64.00	69.90	1073.32	79.90	1063.32	79.90	1063.32	NP	NP	NP
MW-130D	G-152957C	2629047.82	496641.12	1145.15	1142.69	2.46	0.02	2.00	6.00	106.00	1036.69	10/20	100.00	101.00	1041.69	106.00	1036.69	117.00	1025.69	98.00	1044.69	SS/SH
MW-131A	G-152715J	2626341.54	496939.83	1148.09	1145.38	2.71	0.01	2.00	8.00	99.00	1046.38	NAT	86.00	88.50	1056.88	98.50	1046.88	99.00	1046.38	NP	NP	NP
MW-131B	G-152715K	2626348.52	496944.69	1147.94	1145.27	2.67	0.01	2.00	8.00	80.50	1064.77	20/40	68.00	70.50	1074.77	80.50	1064.77	80.50	1064.77	NP	NP	NP
MW-131D	G-152957D	2626333.42	496933.31	1148.10	1145.22	2.88	0.02	2.00	6.00	107.00	1038.22	10/20	101.00	102.00	1043.22	107.00	1038.22	107.00	1038.22	98.00	1047.22	SS
MW-132A (Abandoned)	G-152715L	2625254.59	497254.40	1160.09	1157.28	2.81	0.01	2.00	8.00	105.50	1051.78	NAT	93.00	95.40	1061.88	105.40	1051.88	105.50	1051.78	NP	NP	NP
MW-132B (Abandoned)	G-152715M	2625258.17	497261.76	1159.81	1157.00	2.81	0.01	2.00	6.00	91.50	1065.50	20/40	78.60	81.30	1075.70	91.30	1065.70	91.50	1065.50	NP	NP	NP
MW-132D (Abandoned)	G-152957E	2625250.89	497247.01	1160.44	1157.27	3.17	0.02	2.00	6.00	117.00	1040.27	10/20	110.00	112.00	1045.27	117.00	1040.27	117.00	1040.27	107.50	1049.77	SS
MW-133A	G-152715N	2622522.67	509720.93	1167.41	1167.03	0.38	0.01	2.00	8.00	106.50	1060.53	NAT	93.80	96.50	1070.53	106.50	1060.53	106.50	1060.53	NP	NP	NP
MW-133B	G-152715O	2622522.69	509729.90	1167.55	1167.03	0.52	0.01	2.00	8.00	76.00	1091.03	20/40	64.00	66.00	1101.03	76.00	1091.03	76.00	1091.03	NP	NP	NP
MW-133D	G-152957F	2622523.17	509713.15	1167.19	1167.05	0.14	0.02	2.00	6.00	117.50	1049.55	10/20	110.00	111.00	1056.05	117.00	1050.05	117.50	1049.55	106.50	1060.55	SS
MW-134A	G-152715P	2623417.21	509045.74	1168.44	1168.62	-0.18	0.01	2.00	8.00	113.00	1055.62	NAT	101.00	103.00	1065.62	113.00	1055.62	113.00	1055.62	NP	NP	NP
MW-134B	G-152715Q	2623413.31	509052.47	1168.55	1168.71	-0.16	0.01	2.00	8.00	78.00	1090.71	20/40	66.00	68.00	1100.71	78.00	1090.71	78.00	1090.71	NP	NP	NP
MW-134D	G-152957G	2623421.55	509039.29	1168.68	1168.85	-0.17	0.02	2.00	6.00	127.00	1041.85	10/20	115.00	123.00	1045.85	127.00	1041.85	127.00	1041.85	114.00	1054.85	SH/SS
MW-135A	G-152715R	2623150.45	509762.33	1165.77	1165.62	0.15	0.01	2.00	8.00	110.00	1055.62	NAT	96.00	99.70	1065.92	109.70	1055.92	110.00	1055.62	NP	NP	NP
MW-135B	G-152715S	2623151.02	509772.44	1165.71	1165.69	0.02	0.01	2.00	8.00	70.00	1095.69	20/40	58.00	60.00	1105.69	70.00	1095.69	70.00	1095.69	NP	NP	NP
MW-135D	G-152957H	2623149.03	509752.68	1165.51	1165.67	-0.16	0.02	2.00	6.00	122.00	1043.67	10/20	115.00	117.00	1048.67	122.00	1043.67	122.00	1043.67	110.00	1055.67	SS
MW-136E	G-152732AC	2623075.88	510559.75	1168.29	1168.69	-0.40	0.01	2.00	8.00	60.60	1108.09	20-40	38.50	40.50	1128.19	60.00	1108.69	61.00	1107.69	NP	NP	NP
MW-136B	G-152732AD	2623064.05	510560.70	1168.14	1168.34	-0.20	0.01	2.00	8.00	75.10	1093.24	20-40	62.00	65.00	1103.34	74.50	1093.84	75.35	1092.99	NP	NP	NP
MW-136A	G-152732AE	2623054.23	510561.26	1167.96	1168.40	-0.44	0.01	2.00	8.00	109.60	1058.80	natural	96.20	99.50	1068.90	109.00	1059.40	110.00	1058.40	109.10	1059.30	SS
MW-136D	G-152769	2623043.85	510561.58	1167.61	1168.07	-0.46	0.02	2.00	6.00	124.80	1043.27	10-20	118.00	120.00	1048.07	124.40	1043.67	127.00	1041.07	109.10	1058.97	SS
MW-137E	G-152732AF	2622857.08	511706.78	1166.17	1166.44	-0.27	0.01	2.00	8.00	62.75	1103.69	20-40	39.25	42.35	1124.09	62.05	1104.39	62.75	1103.69	NP	NP	NP
MW-137B	G-152732AG	2622846.21	511704.35	1166.04	1166.43	-0.38	0.01	2.00	8.00	72.70	1093.73	20-40	60.30	62.60	1103.83	72.10	1094.33	75.30	1091.13	NP	NP	NP
MW-137A	G-152732AH	2622837.54	511702.36	1166.31	1166.48	-0.17	0.01	2.00	8.00	103.20	1063.28	natural	91.10	93.20	1073.28	102.70	1063.78	103.60	1062.88	NP	NP	NP

Table 2-1
USACE Monitoring Well and Observation Well Construction Details
2012 Groundwater Model Update
Former Nebraska Ordnance Plant, Mead, Nebraska

ID	DNR registration No.	E-83 Easting (NAD83)	N-83 Northing (NAD 83)	TOC-88 TOC Elev (ft NAVD 88)	Ground Surface Elev (ft NAVD 88)	STICK UP	SLOT SIZE	Well Dia. (inches)	Boring Dia. (inches)	Bottom of Well Depth (ft bgs)	Bottom of Well Elevation (ft NAVD88)	Filter pack size	Depth to Top of Filter Pack (ft bgs)	Top of Screen Depth (ft bgs)	Top of Screen Elevation (ft NAVD88)	Bottom of Screen Depth (ft bgs)	Bottom of Screen Elevation (ft NAVD88)	Bottom of Boring Depth (ft bgs)	Bottom of Boring Elevation (ft NAVD88)	Top of Bedrock Depth (ft bgs)	Top of Bedrock Elevation (ft NAVD88)	Bedrock Type
MW-137D (Abandoned)	G-152739	2622826.93	511700.85	1165.98	1166.54	-0.56	0.02	2.00	6.00	117.00	1049.54	10-20	109.00	112.20	1054.34	116.60	1049.94	117.00	1049.54	104.20	1062.34	SS
MW-138B	G-152732AI	2622378.08	512817.20	1176.22	1173.22	3.00	0.01	2.00	8.00	74.59	1098.63	20-40	61.96	64.49	1108.73	73.99	1099.23	75.50	1097.72	NP	NP	NP
MW-138A	G-152740	2622366.41	512816.57	1175.83	1173.35	2.48	0.01	2.00	6.00	127.00	1046.35	10-20	113.50	117.10	1056.25	126.60	1046.75	137.00	1036.35	127.20	1046.15	SS
MW-139B	G-152732AJ	2621297.04	514275.44	1180.61	1177.86	2.75	0.01	2.00	8.00	81.75	1096.11	20-40	69.30	71.33	1106.53	81.20	1096.66	82.67	1095.19	NP	NP	NP
MW-139A	G-152741	2621290.29	514264.29	1180.32	1177.69	2.63	0.01	2.00	6.00	141.40	1036.29	natural	130.90	131.50	1046.19	141.00	1036.69	142.00	1035.69	139.90	1037.79	SS
MW-140O	G-152732AK	2634717.20	503393.26	1092.60	1089.93	2.67	0.01	2.00	8.00	9.30	1080.63	20-40	6.30	6.50	1083.43	9.00	1080.93	9.40	1080.53	NP	NP	NP
MW-140B	G-152732AL	2634717.22	503383.63	1092.42	1089.89	2.53	0.01	2.00	8.00	23.10	1066.79	20-40	10.90	13.00	1076.89	22.50	1067.39	23.10	1066.79	NP	NP	NP
MW-140A	G-152732AM	2634717.63	503375.83	1092.50	1089.68	2.82	0.01	2.00	8.00	47.20	1042.48	natural	34.80	37.00	1052.68	46.50	1043.18	47.50	1042.18	46.70	1042.98	SS
MW-140D	G-152742	2634718.42	503365.40	1092.30	1090.06	2.23	0.02	2.00	6.00	61.90	1028.16	10-20	54.70	57.10	1032.96	61.50	1028.56	62.00	1028.06	46.70	1043.36	SS
MW-141A	G-157069	2608446.60	502590.64	1162.07	1165.96	-0.35	0.02	2.00	6.00	115.00	1050.96	12/20	101.00	105.00	1060.96	115.00	1050.96	145.00	1020.96	125.00	1040.96	SS
MW-141B	G-157027B	2608446.50	502597.16	1162.10	1166.08	-0.32	0.02	2.00	6.00	60.00	1106.08	20/40	46.00	50.00	1116.08	60.00	1106.08	60.00	1106.08	NP	NP	NP
MW-141E	G-157027C	2608446.50	502604.35	1162.07	1165.94	-0.28	0.01	2.00	6.00	90.00	1075.94	natural	75.00	80.00	1085.94	90.00	1075.94	90.00	1075.94	NP	NP	NP
MW-142A	G-157070	2610572.95	495594.89	1154.43	1158.21	-0.38	0.02	2.00	6.00	135.00	1023.21	10/20	112.20	115.00	1043.21	125.00	1033.21	135.00	1023.21	131.00	1027.21	SS
MW-142E	G-157027D	2610563.98	495595.06	1154.15	1157.96	-0.40	0.02	2.00	8.50	100.00	1057.96	natural	91.00	90.00	1067.96	100.00	1057.96	100.00	1057.96	NP	NP	NP
MW-143B	G-157071/G-15	2621339.98	502719.77	1155.87	1160.09	-0.57	0.02	2.00	6.00	62.00	1098.09	10/20	48.00	52.00	1108.09	62.00	1098.09	62.00	1098.09	NP	NP	NP
MW-144A	G-157072	2614012.25	503570.97	1164.17	1168.17	-0.34	0.02	2.00	6.00	101.00	1067.17	12/20	85.00	91.00	1077.17	101.00	1067.17	105.00	1063.17	101.00	1067.17	SH
MW-144E	G-157027F	2614019.84	503573.10	1164.47	1168.52	-0.31	0.02	2.00	6.00	85.00	1083.52	20/40	71.00	75.00	1093.52	85.00	1083.52	85.00	1083.52	NP	NP	NP
MW-145A	G-157073	2617407.83	500652.84	1160.75	1164.91	-0.33	0.02	2.00	6.00	95.70	1069.21	10/20	81.00	85.70	1079.21	95.70	1069.21	96.00	1068.91	NP	NP	NP
MW-145B	G-166053	2617395.841	500656.14	1157.571825	1158.00182	-0.43	0.01	2.00	6.00	61.69	1096.31	20/40	49.69	51.69	1106.31	61.69	1096.31	63.00	1095.00	NP	NP	NP
MW-145E	G-157027G	2617414.44	500652.99	1160.89	1165.03	-0.37	0.01	2.00	8.50	82.00	1083.03	natural	69.00	72.00	1093.03	82.00	1083.03	82.00	1083.03	NP	NP	NP
MW-146A	G-167256	2618871.66	494899.38	1148.18	1152.23	-0.32	0.02	2.00	8.50	97.00	1055.23	12/20	85.00	87.00	1065.23	97.00	1055.23	125.00	1027.23	97.00	1055.23	SS
MW-146B	G-157027H	2618871.66	494899.37	1148.01	1152.32	-0.43	0.01	2.00	8.50	77.00	1075.32	20/40	65.00	67.00	1085.32	77.00	1075.32	77.00	1075.32	NP	NP	NP
MW-147A	G-157027I	2620042.45	494474.75	1148.92	1153.30	-0.25	0.01	2.00	8.50	100.00	1053.30	natural	88.00	90.00	1063.30	100.00	1053.30	100.00	1053.30	NP	NP	NP
MW-147B	G-157027J	2620045.18	494471.71	1148.74	1152.68	-0.32	0.01	2.00	8.50	77.00	1075.68	20/40	64.50	67.00	1085.68	77.00	1075.68	77.00	1075.68	NP	NP	NP
MW-147D	G-157074	2620047.88	494467.74	1148.52	1152.27	-0.35	0.01	2.00	6.00	125.00	1027.27	12/20	112.00	115.00	1037.27	125.00	1027.27	132.00	1020.27	100.00	1052.27	SS
MW-148A	G-166054	2620166.75	504433.591	1157.598739	1158.03874	-0.44	0.02	2.00	6.00	104.91	1053.13	12/20	92.91	94.91	1063.13	104.91	1053.13	104.91	1053.13	NP	NP	NP
MW-148B	G-167257	2620179.92	504425.78	1160.53	1162.42	-0.48	0.02	2.00	6.00	75.00	1087.42	12/20	63.00	65.00	1097.42	75.00	1087.42	75.00	1087.42	NP	NP	NP
MW-149A	G-157075	2622398.38	502086.76	1152.23	1156.22	-0.41	0.02	2.00	6.00	90.00	1066.22	12/20	77.50	80.00	1076.22	90.00	1066.22	100.00	1056.22	NP	NP	NP
MW-150A	G-157076	2624201.15	499856.55	1147.59	1151.59	-0.34	0.02	2.00	6.00	90.00	1061.59	12/20	78.00	80.00	1071.59	90.00	1061.59	90.00	1061.59	NP	NP	NP
MW-150B	G-157027K	2624200.78	499864.11	1147.51	1151.47	-0.37	0.01	2.00	8.50	75.00	1076.47	natural	62.80	65.00	1086.47	75.00	1076.47	75.00	1076.47	NP	NP	NP
MW-151A	G-157077	2624392.64	506668.08	1158.65	1162.63	-0.43	0.01	2.00	8.50	104.00	1058.63	natural	91.30	94.00	1068.63	104.00	1058.63	104.00	1058.63	NP	NP	NP
MW-151B	G-157027L	2624386.31	506667.26	1158.72	1162.65	-0.40	0.02	2.00	6.00	80.00	1082.65	20/40	67.00	70.00	1092.65	80.00	1082.65	80.00	1082.65	NP	NP	NP
MW-152B	G-157078/G-15	2627865.21	506805.72	1148.37	1152.22	-0.34	0.02	2.00	6.00	70.00	1082.22	20/40	58.00	60.00	1092.22	70.00	1082.22	75.00	1077.22	NP	NP	NP
MW-153A	G-167054	2627200.19	504130.22	1146.17	1150.05	-0.38	0.02	2.00	6.00	99.50	1050.55	12/20	87.00	89.50	1060.55	99.50	1050.55	100.00	1050.05	97.00	1053.05	SH
MW-153B	G-157027N	2627192.86	504129.53	1146.28	1149.96	-0.34	0.01	2.00	8.50	79.00	1070.96	natural	67.00	69.00	1080.96	79.00	1070.96	79.00	1070.96	NP	NP	NP
MW-154A	G-157079	2631170.17	504308.25	1141.11	1144.87	-0.32	0.02	2.00	6.00	86.00	1058.87	12/20	71.00	76.00	1068.87	86.00	1058.87	86.00	1058.87	NP	NP	NP
MW-154B	G-157027O	2631165.22	504308.20	1141.16	1144.88	-0.32	0.02	2.00	8.50	65.00	1079.88	natural	52.80	55.00	1089.88	65.00	1079.88	65.00	1079.88	NP	NP	NP
MW-155A	G-157027P	2629444.96	502435.45	1141.95	1145.78	-0.44	0.01	2.00	8.50	99.00	1046.78	natural	85.40	89.00	1056.78	99.00	1046.78	99.00	1046.78	NP	NP	NP
MW-155B	G-166055	2629441.73	502456.405	1138.287218	1138.74722	-0.46	0.01	2.00	6.00	64.65	1074.10	20/40	52.65	54.65	1084.10	64.65	1074.10	65.00	1073.75	NP	NP	NP
MW-155E	G-157027Q	2629444.89	502444.32	1141.78	1145.73	-0.45	0.01	2.00	8.50	79.00	1066.73	natural	65.80	69.00	1076.73	79.00	1066.73	79.00	1066.73	NP	NP	NP
MW-156A	G-157027R	2633019.60	501928.83	1093.89	1097.95	-0.46	0.01	2.00	8.50	46.00	1051.05	natural	33.00	36.00	1061.05	46.00	1051.05	46.00	1051.05	NP	NP	NP
MW-156B	G-157027S	2633018.32	501922.48	1093.96	1097.94	-0.51	0.01	2.00	8.50	26.00	1068.32	20/40	14.00	16.00	1078.32	26.00	1068.32	26.00	1068.32	NP	NP	NP
MW-157A	G-157027T	2632549.30	499117.46	1102.64	1106.31	-0.26	0.01	2.00	8.50	55.00	1051.31	natural	43.00	45.00	1061.31	55.00	1051.31	55.00	1051.31	NP	NP	NP
MW-157B	G-157027U	2632559.03	499118.08	1101.91	1105.77	-0.45	0.01	2.00	8.50	37.00	1068.77	20/40	25.00	27.00	1078.77	37.00	1068.77	37.00	1068.77	NP	NP	NP
MW-158A	G-157027V	2635279.53	493887.42	1076.69	1080.40	-0.33	0.01	2.00	8.50	37.00	1043.40	20/40	22.00	27.00	1053.40	37.00	1043.40	37.00	1043.40	NP	NP	NP
MW-158B	G-157027W	2635272.00	493887.38	1076.36	1080.47	-0.36	0.02	2.00	8.50	24.00	1056.47	10/20	12.00	14.00	1066.47	24.00	1056.47	24.00	1056.47	NP	NP	NP
MW-158D	G-167166	2635266.75	493887.31	1076.63	1080.84	-0.35	0.02	2.00	6.00	49.00	1031.84	10/20	42.00	44.00	1036.84	49.00	1031.84	50.00	1030.84	34.00	1046.84	SS
MW-159A	G-157080	2629111.80	510307.65	1163.51	1167.72	-0.52	0.02	2.00	6.00	120.00	1047.72	10/20	108.00	110.00	1057.72	120.00	1047.72	127.00	1040.72	122.00	1045.72	SH
MW-159B	G-157027X	2629111.63	510300.52	1163.57	1167.57	-0.29	0.01	2.00	8.50	85.00	1082.57	natural	72.50	75.00	1092.57	85.00	1082.57	85.00	1082.57	NP	NP	NP
MW-160A	G-166056	2609501.293	496947.488	1154.351451	1154.92145	-0.57	0.02	2.00	6.00	123.01	1031.91	12/20	111.01	113.01	1041.91	123.01	1031.91	133.00	1021.92	132.40	1022.52	SS
MW-160B	G-166057	2609505.064	496954.303	1154.176041	1154.79604	-0.62	0.01	2.00	6.00	92.92	1061.88	20/40	80.92	82.92	1071.88	92.92	1061.88	124.01	1030.79	NP	NP	NP
MW-161A	G-166050	2608418.557	503133.216	1166.479491	1166.97949	-0.50	0.02	2.00	6.00	115.25	1051.73	12/20	103.25	105.25	1061.73	115.25	1051.73	135.00	1031.98	133.00	1033.98	SS
MW-161B	G-166051	2608419.67	503123.84	1167.00088	1167.46088	-0.46	0.01	2.00	6.00	84.53	1082.93	20/40	72.53	74.53	1092.93	84.53	1082.93	116.25	1051.21	NP	NP	NP
MW-162A	G-166052	2618293.12	498773.02	1148.895604	1149.3356	-0.44	0.02	2.00	6.00	82.15	1067.19	12/20	70.15	72.15	1077.19	82.15	1067.19	105.00	1044.34	95.00	1054.34	SS

Table 2-1
USACE Monitoring Well and Observation Well Construction Details
2012 Groundwater Model Update
Former Nebraska Ordnance Plant, Mead, Nebraska

		E-83	N-83	TOC-88	Ground					Bottom of Well		Filter	Depth to	Top of Screen		Bottom of Screen		Bottom of Boring		Top of Bedrock		Bedrock
ID	DNR registration No.	Easting (NAD83)	Northing (NAD 83)	TOC Elev (ft NAVD 88)	Surface Elev (ft NAVD 88)	STICK UP	SLOT SIZE	Well Dia. (inches)	Boring Dia. (inches)	Depth (ft bgs)	Elevation (ft NAVD88)	pack size	Top of Filter Pack (ft bgs)	Depth (ft bgs)	Elevation (ft NAVD88)	Depth (ft bgs)	Elevation (ft NAVD88)	Depth (ft bgs)	Elevation (ft NAVD88)	Depth (ft bgs)	Elevation (ft NAVD88)	Type
MW-163A	G-166058	2618961.892	498952.862	1159.743613	1160.26361	-0.52	0.02	2.00	6.00	108.18	1052.08	12/20	96.18	98.18	1062.08	108.18	1052.08	109.18	1051.08	NP	NP	NP
MW-164A	G-166059	2617493.857	498294.974	1150.109067	1150.50907	-0.40	0.02	2.00	6.00	99.16	1051.35	12/20	87.16	89.16	1061.35	99.16	1051.35	103.00	1047.51	100.00	1050.51	SS
MW-165B	G-166060	2617933.415	498609.918	1148.889982	1149.31998	-0.43	0.01	2.00	6.00	84.01	1065.31	20/40	72.01	74.01	1075.31	84.01	1065.31	85.01	1064.31	NP	NP	NP
MW-166A	G-166061	2618657.286	496609.561	1150.733553	1151.21355	-0.48	0.02	2.00	6.00	101.81	1049.40	12/20	89.81	91.81	1059.40	101.81	1049.40	110.00	1041.21	104.00	1047.21	SS
MW-166B	G-166062	2618661.424	496616.201	1150.812611	1151.35261	-0.54	0.01	2.00	6.00	61.01	1090.34	20/40	49.01	51.01	1100.34	61.01	1090.34	62.01	1089.34	NP	NP	NP
MW-167A	G-166063	2619420.511	497423.398	1147.655985	1148.15599	-0.50	0.02	2.00	6.00	97.33	1050.83	12/20	85.33	87.33	1060.83	97.33	1050.83	105.00	1043.16	98.00	1050.16	SS
MW-167B	G-166064	2619428.964	497426.555	1147.615367	1147.94537	-0.33	0.01	2.00	6.00	69.78	1078.17	20/40	57.78	59.78	1088.17	69.78	1078.17	70.78	1077.17	NP	NP	NP
MW-168A	G-166065	2620186.362	498009.89	1152.751938	1153.06194	-0.31	0.02	2.00	6.00	101.25	1051.81	12/20	89.25	91.25	1061.81	101.25	1051.81	105.00	1048.06	102.20	1050.86	SS
MW-168B	G-166066	2620178.267	498011.714	1152.169795	1152.6298	-0.46	0.01	2.00	6.00	81.60	1071.03	20/40	69.60	71.60	1081.03	81.60	1071.03	82.60	1070.03	NP	NP	NP
MW-169A	G-166067	2619932.754	495501.598	1145.608602	1146.0486	-0.44	0.02	2.00	6.00	99.27	1046.78	12/20	87.27	89.27	1056.78	99.27	1046.78	105.00	1041.05	102.00	1044.05	SS
MW-169B	G-166068	2619942.569	495502.951	1145.516859	1146.06686	-0.55	0.01	2.00	6.00	75.07	1071.00	20/40	63.07	65.07	1081.00	75.07	1071.00	76.07	1070.00	NP	NP	NP
MW-170A	G-166069	2621225.191	496442.892	1145.457852	1146.01785	-0.56	0.02	2.00	6.00	90.32	1055.70	12/20	78.32	80.32	1065.70	90.32	1055.70	100.00	1046.02	98.00	1048.02	SS
MW-171A	G-166070	2615668.935	501881.314	1160.216844	1160.54684	-0.33	0.02	2.00	6.00	97.25	1063.30	12/20	85.25	87.25	1073.30	97.25	1063.30	100.00	1060.55	NP	NP	NP
MW-171B	G-166071	2615662.16	501881.095	1159.790579	1160.24058	-0.45	0.01	2.00	6.00	66.87	1093.37	20/40	54.87	56.87	1103.37	66.87	1093.37	67.87	1092.37	NP	NP	NP
MW-172A	G-166072	2625763.501	497428.549	1146.965181	1144.32518	2.64	0.02	2.00	6.00	95.80	1048.53	12/20	83.80	85.80	1058.53	95.80	1048.53	99.00	1045.33	NP	NP	NP
MW-172B	G-166073	2625755.506	497431.526	1146.876486	1144.31649	2.56	0.01	2.00	6.00	76.00	1068.32	20/40	64.00	66.00	1078.32	76.00	1068.32	77.00	1067.32	NP	NP	NP
MW-173A	G-166074	2627008.041	497957.667	1148.574607	1146.59461	1.98	0.02	2.00	6.00	90.41	1056.18	12/20	78.41	80.41	1066.18	90.41	1056.18	105.00	1041.59	NP	NP	NP
MW-174A	G-166075	2622869.283	497380.635	1142.129583	1142.56958	-0.44	0.02	2.00	6.00	93.01	1049.56	12/20	81.01	83.01	1059.56	93.01	1049.56	105.00	1037.57	NP	NP	NP
MW-174B	G-166076	2622865.16	497375.022	1141.71815	1142.07815	-0.36	0.01	2.00	6.00	74.73	1067.35	20/40	62.73	64.73	1077.35	74.73	1067.35	75.73	1066.35	NP	NP	NP
MW-175A	G-166077	2622690.122	501101.536	1151.786244	1152.30624	-0.52	0.02	2.00	6.00	90.08	1062.23	12/20	78.08	80.08	1072.23	90.08	1062.23	112.00	1040.31	NP	NP	NP
MW-175B	G-166078	2622680.348	501098.072	1151.031892	1151.44189	-0.41	0.01	2.00	6.00	75.73	1075.71	20/40	63.73	65.73	1085.71	75.73	1075.71	76.73	1074.71	NP	NP	NP
MW-176A	G-166079	2632839.137	499810.439	1090.006174	1090.35617	-0.35	0.02	2.00	6.00	53.50	1036.86	12/20	41.50	43.50	1046.86	53.50	1036.86	55.00	1035.36	NP	NP	NP
MW-176B	G-166080	2632839.673	499818.354	1089.107931	1089.85793	-0.75	0.01	2.00	6.00	34.10	1055.76	20/40	22.10	24.10	1065.76	34.10	1055.76	35.10	1054.76	NP	NP	NP
MW-177A	G-166081	2609971.19	492953.374	1104.428014	1102.37801	2.05	0.02	2.00	6.00	83.30	1019.08	12/20	71.30	73.30	1029.08	83.30	1019.08	83.30	1019.08	NP	NP	NP
MW-177B	G-166082	2609974.652	492954.438	1105.898024	1103.87802	2.02	0.01	2.00	6.00	44.68	1059.20	20/40	32.68	34.68	1069.20	44.68	1059.20	45.68	1058.20	NP	NP	NP
MW-178B	G-166083	2628870.63	506851.746	1140.337562	1140.95756	-0.62	0.01	2.00	6.00	88.87	1052.09	20/40	76.87	78.87	1062.09	88.87	1052.09	89.87	1051.09	NP	NP	NP
MW-179A	G-166084	2611664.673	493135.134	1107.446745	1105.63901	1.81	0.02	2.00	6.00	84.51	1021.13	12/20	72.51	74.51	1031.13	84.51	1021.13	85.00	1020.64	NP	NP	NP
MW-179B	G-166085	2611658.781	493134.484	1107.644159	1105.19791	2.45	0.01	2.00	6.00	44.81	1060.39	20/40	32.81	34.81	1070.39	44.81	1060.39	45.81	1059.39	NP	NP	NP
OW-01	G-154545DA	2607922.86	499747.98	1161.41	1159.51	1.90	0.02	4.00	8.00	152.30	1007.21	10/20	51.80	62.00	1097.51	152.00	1007.51	152.50	1007.01	152.50	1007.01	SH
OW-02	G-154545CZ	2607882.80	499737.42	1161.57	1159.42	2.15	0.02	2.00	6.00	151.30	1008.12	12/25	52.10	61.00	1098.42	151.00	1008.42	151.50	1007.92	151.00	1008.42	SH
OW-03	G-154545CY	2607936.15	499790.42	1161.69	1159.38	2.31	0.02	2.00	6.00	152.00	1007.38	12/25	52.00	61.70	1097.68	151.70	1007.68	152.00	1007.38	152.00	1007.38	SH
OW-04	G-154545CX	2607936.23	499764.72	1161.75	1159.50	2.25	0.02	2.00	6.00	152.30	1007.20	12/25	50.20	62.00	1097.50	152.00	1007.50	152.60	1006.90	152.50	1007.00	SH
OW-05		2634934.82	495184.29	1080.35	1078.11	2.24	0.01	4.00	8.00	39.00	1039.11	16/35	16.10	18.50	1059.61	38.50	1039.61	55.20	1022.91	39.00	1039.11	SS
OW-06	G-154545CW	2634884.33	495208.11	1079.22	1076.55	2.67	0.01	2.00	6.00	70.30	1006.25	16/35	49.90	60.00	1016.55	70.00	1006.55	122.00	954.55	39.50	1037.05	SS
OW-07	G-154545CV	2634884.15	495203.34	1079.06	1076.66	2.40	0.01	2.00	6.00	39.00	1037.66	16/35	16.50	18.70	1057.96	38.70	1037.96	39.50	1037.16	39.50	1037.16	SS
OW-08	G-154545FR	2634786.34	495194.19	1078.43	1075.64	2.79	0.01	2.00	6.00	39.70	1035.94	16/35	16.00	19.40	1056.24	39.40	1036.24	39.70	1035.94	39.70	1035.94	SS
OW-09	G-154545CU	2634937.80	495134.36	1080.96	1078.72	2.24	0.01	2.00	6.00	39.30	1039.42	16/35	16.40	19.00	1059.72	39.00	1039.72	40.00	1038.72	40.00	1038.72	SS
OW-10	G-154545CT	2635084.86	495206.73	1079.79	1076.84	2.95	0.01	2.00	5.63	39.50	1037.34	16/30	17.00	19.00	1057.84	39.00	1037.84	39.50	1037.34	39.00	1037.84	SS
OW-11	G-097847H	2635254.36	495167.81	1078.66	1075.87	2.79	0.01	2.00	7.00	43.00	1032.87	# 00	20.00	23.00	1052.87	43.00	1032.87	45.00	1030.87	44.00	1031.87	SS
OW-12	G-097847I	2636332.13	495279.48	1080.19	1077.53	2.66	0.01	2.00	7.00	41.00	1036.53	# 00	18.00	21.00	1056.53	41.00	1036.53	42.00	1035.53	41.00	1036.53	SS
OW-13	G-097847J	2634929.33	495121.80	1081.25	1078.32	2.93	0.01	2.00	7.00	38.50	1039.82	# 00	15.50	18.50	1059.82	38.50	1039.82	40.00	1038.32	39.00	1039.32	SS
OW-14	G-097847K	2634937.07	494987.77	1080.52	1077.67	2.85	0.01	2.00	7.00	39.00	1038.67	# 00	16.00	19.00	1058.67	39.00	1038.67	40.00	1037.67	39.00	1038.67	SS
OW-15	G-097847L	2634948.12	494788.06	1080.66	1078.15	2.51	0.01	2.00	7.00	41.00	1037.15	# 00	18.00	21.00	1057.15	41.00	1037.15	43.00	1035.15	42.00	1036.15	SS
OW-16	G-097847M	2633480.01	495159.25	1078.22	1075.13	3.09	0.01	2.00	7.00	38.00	1037.13	# 00	15.00	18.00	1057.13	38.00	1037.13	40.00	1035.13	39.00	1036.13	SS
OW-17	G-097847A	2607999.94	499877.66	1161.58	1159.10	2.48	0.02	2.00	7.00	138.00	1021.10	# 1	45.00	48.00	1111.10	138.00	1021.10	150.50	1008.60	150.00	1009.10	SH
OW-18	G-097847B	2608114.43	499884.02	1162.21	1159.80	2.41	0.02	2.00	7.00	138.00	1021.80	# 1	45.00	48.00	1111.80	138.00	1021.80	150.00	1009.80	149.50	1010.30	SS
OW-19	G-097847C	2608709.98	499902.62	1172.28	1169.49	2.79	0.02	2.00	7.00	144.00	1025.49	# 1	46.00	49.00	1120.49	144.00	1025.49	150.00	1019.49	149.00	1020.49	SS
OW-20	G-097847D	2607954.58	499696.42	1162.79	1160.12	2.67	0.02	2.00	7.00	139.00	1021.12	# 1	46.00	49.00	1111.12	139.00	1021.12	149.00	1011.12	148.00	1012.12	SS
OW-21	G-097847E	2607936.83	499559.45	1159.81	1156.90	2.91	0.02	2.00	7.00	147.00	1009.90	# 1	44.00	47.00	1109.90	147.00	1009.90	155.00	1001.90	154.00	1002.90	SS
OW-22	G-097847F	2608019.74	499355.14	1161.24	1158.59	2.65	0.02	2.00	7.00	140.00	1018.59	# 1	42.00	45.00	1113.59	140.00	1018.59	153.00	1005.59	152.50	1006.09	SS
OW-23	G-097847G	2607158.35	499656.44	1162.08	1158.88	3.20	0.02	2.00	7.00	130.00	1028.88	# 1	47.00	50.00	1108.88	130.00	1028.88	137.50	1021.38	136.50	1022.38	SS
OW-24	G-154545CS	2629552.06	496984.50	1153.07	1149.56	3.51	0.02	2.00	7.88	100.00	1049.56	10/20	46.50	50.00	1099.56	95.00	1054.56	103.00	1046.56	101.00	1048.56	SH
OW-25	G-154545CR	2629511.42	496932.08	1155.71	1152.33	3.38	0.02	2.00	7.88	110.00	1042.33	10/20	42.50	50.00	1102.33	105.00	1047.33	113.00	1039.33	111.00	1041.33	SH
OW-26	G-154545CQ	2629214.17	496664.05	1148.64	1145.12	3.52	0.02	2.00	7.88	100.00	1045.12	10/20	45.50	50.00	1095.12	95.00	1050.12	103.00	1042.12	101.00	1044.12	SH
OW-27	G-154545CP	2629582.05	496942.21	1153.30	1149.80	3.50	0.02	2.00	7.88	95.00	1054.80	10/20	45.00	50.00	1099.80	90.00	1059.80	100.00	1049.80	98.00	1051.80	SH

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		E-83	N-83	TOC-88	Ground					Bottom of Well		Filter	Depth to	Top of Screen		Bottom of Screen		Bottom of Boring		Top of Bedrock		Bedrock
ID	DNR registration No.	Easting (NAD83)	Northing (NAD 83)	TOC Elev (ft NAVD 88)	Surface Elev (ft NAVD 88)	STICK UP	SLOT SIZE	Well Dia. (inches)	Boring Dia. (inches)	Depth (ft bgs)	Elevation (ft NAVD88)	pack size	Top of Filter Pack (ft bgs)	Depth (ft bgs)	Elevation (ft NAVD88)	Depth (ft bgs)	Elevation (ft NAVD88)	Depth (ft bgs)	Elevation (ft NAVD88)	Depth (ft bgs)	Elevation (ft NAVD88)	Type
OW-28	G-154545CO	2629581.52	496898.00	1153.81	1150.76	3.05	0.02	2.00	7.88	100.00	1050.76	10/20	47.00	50.00	1100.76	95.00	1055.76	103.00	1047.76	101.00	1049.76	SH
OW-30 (abandoned)	G-154545CN	2629965.06	497303.88	1131.58	1128.69	2.89	0.02	2.00	7.88	85.00	1043.69	10/20	47.00	50.00	1078.69	80.00	1048.69	88.00	1040.69	87.00	1041.69	SH
OW-31	G-154545CM	2624242.96	497898.99	1155.78	1152.35	3.43	0.02	2.00	7.88	105.00	1047.35	10/20	45.00	47.00	1105.35	97.00	1055.35	105.00	1047.35	104.00	1048.35	SS
OW-32	G-154545CL	2624139.95	497845.07	1153.87	1151.31	2.56	0.02	2.00	7.88	100.00	1051.31	10/20	47.00	50.00	1101.31	95.00	1056.31	105.00	1046.31	104.00	1047.31	SH
OW-33	G-154545FS	2623750.57	497669.79	1154.67	1152.38	2.29	0.02	2.00	7.88	113.39	1038.99	10/20	45.00	50.00	1102.38	110.00	1042.38	119.00	1033.38	118.50	1033.88	SS/SH
OW-34	G-154545FT	2624320.18	497868.57	1154.70	1151.61	3.09	0.02	2.00	7.88	93.00	1058.61	10/20	44.00	48.00	1103.61	93.00	1058.61	102.50	1049.11	102.00	1049.61	SS/SH
OW-35	G-154545CK	2624360.77	497738.45	1154.10	1150.66	3.44	0.02	2.00	7.88	100.00	1050.66	10/20	47.00	50.00	1100.66	95.00	1055.66	105.00	1045.66	104.00	1046.66	SS/SH
OW-36	G-154545CJ	2624413.00	497337.59	1157.23	1153.96	3.27	0.02	2.00	7.88	110.00	1043.96	10/20	45.00	50.00	1103.96	105.00	1048.96	113.25	1040.71	113.00	1040.96	SS/SH
OW-37	G-154545CI	2624838.27	498178.35	1157.36	1154.41	2.95	0.02	2.00	7.88	105.00	1049.41	10/20	45.00	50.00	1104.41	100.00	1054.41	109.00	1045.41	108.75	1045.66	SS/SH
OW-38	G-154545CH	2621733.08	496294.86	1151.19	1147.66	3.53	0.02	2.00	7.88	90.00	1057.66	10/20	47.00	50.00	1097.66	90.00	1057.66	99.00	1048.66	98.00	1049.66	SS/SH
OW-39	G-154545CG	2621620.02	496212.33	1151.39	1147.82	3.57	0.02	2.00	7.88	100.00	1047.82	10/20	46.00	50.00	1097.82	95.00	1052.82	98.00	1049.82	97.00	1050.82	SH
OW-40	G-154545CF	2621297.36	495975.58	1157.66	1154.21	3.45	0.02	2.00	7.88	105.00	1049.21	10/20	47.00	50.00	1104.21	100.00	1054.21	105.00	1049.21	104.00	1050.21	SH
OW-41	G-154545CE	2621816.64	496281.90	1150.22	1146.75	3.47	0.02	2.00	7.88	95.00	1051.75	10/20	47.00	50.00	1096.75	90.00	1056.75	97.00	1049.75	95.00	1051.75	SH
OW-42	G-154545CD	2621899.70	496169.43	1151.21	1147.71	3.50	0.02	2.00	7.88	95.00	1052.71	10/20	47.00	50.00	1097.71	90.00	1057.71	97.00	1050.71	95.00	1052.71	SH
OW-43	G-154545CC	2622135.38	495845.76	1156.74	1153.24	3.50	0.02	2.00	7.88	105.00	1048.24	10/20	47.00	50.00	1103.24	100.00	1053.24	105.00	1048.24	103.00	1050.24	SH
OW-44	G-154545CB	2622302.63	496682.05	1147.84	1144.63	3.21	0.02	2.00	7.88	95.00	1049.63	10/20	47.00	50.00	1094.63	90.00	1054.63	95.00	1049.63	94.00	1050.63	SH
OW-45	G-154545CA	2619203.17	494842.21	1152.47	1149.11	3.36	0.02	2.00	7.88	108.00	1041.11	10/20	41.00	44.00	1105.11	104.00	1045.11	117.00	1032.11	114.00	1035.11	SS
OW-46	G-154545BZ	2619059.00	494783.36	1151.55	1148.16	3.39	0.02	2.00	7.88	100.00	1048.16	10/20	43.00	46.00	1102.16	96.00	1052.16	106.00	1042.16	105.50	1042.66	SS
OW-47	G-154545BY	2618684.83	494630.88	1153.44	1149.85	3.59	0.02	2.00	7.88	100.00	1049.85	10/20	43.00	47.00	1102.85	97.00	1052.85	115.00	1034.85	100.00	1049.85	SH
OW-48	G-154545BX	2619283.37	494800.47	1153.38	1150.11	3.27	0.02	2.00	7.88	114.50	1035.61	10/20	44.50	48.50	1101.61	113.50	1036.61	118.50	1031.61	118.00	1032.11	SS
OW-49	G-154545BW	2619315.78	494671.87	1154.09	1150.81	3.28	0.02	2.00	7.88	110.50	1040.31	10/20	45.00	50.00	1100.81	110.00	1040.81	114.50	1036.31	114.00	1036.81	SS
OW-50	G-154545BV	2619465.62	494300.16	1151.16	1147.70	3.46	0.02	2.00	7.88	97.50	1050.20	10/20	45.00	47.00	1100.70	97.00	1050.70	105.00	1042.70	104.50	1043.20	SS
OW-51	G-154545BU	2619790.64	495096.02	1149.86	1146.50	3.36	0.02	2.00	7.88	105.00	1041.50	10/20	47.00	50.00	1096.50	100.00	1046.50	105.00	1041.50	NP	NP	NP
OW-52	G-141658V	2610585.60	493033.91	1107.14	1104.93	2.21	0.02	2.00	6.00	86.00	1018.93	10/20	53.65	55.65	1049.28	86.00	1018.93	86.40	1018.53	NA	NA	NA
OW-53	G-141658W	2610555.96	493019.67	1107.13	1104.92	2.21	0.02	2.00	6.00	82.00	1022.92	10/20	49.55	51.65	1053.27	82.00	1022.92	82.20	1022.72	NA	NA	NA
OW-54	G-141658X	2611356.56	493520.93	1115.39	1113.19	2.20	0.02	2.00	6.00	86.50	1026.69	10/20	54.10	56.15	1057.04	86.50	1026.69	86.70	1026.49	NA	NA	NA
OW-55	G-141658Y	2610821.53	492991.93	1107.05	1104.87	2.18	0.02	2.00	6.00	88.00	1016.87	10/20	55.17	57.17	1047.70	87.60	1017.27	88.00	1016.87	NA	NA	NA
OW-56	G-141658Z	2611642.99	493196.43	1112.15	1109.96	2.19	0.02	2.00	6.00	83.00	1026.96	10/20	50.67	52.67	1057.29	83.00	1026.96	83.50	1026.46	NA	NA	NA
OW-57	G-141658AA	2611768.76	493277.87	1114.84	1112.62	2.22	0.02	2.00	6.00	83.00	1029.62	10/20	50.65	52.65	1059.97	83.00	1029.62	83.40	1029.22	NA	NA	NA
OW-58	G-141658AB	2611366.56	493009.96	1109.00	1106.77	2.23	0.02	2.00	6.00	86.00	1020.77	10/20	53.60	55.67	1051.10	86.00	1020.77	86.50	1020.27	NA	NA	NA
OW-59	G-141658AC	2611579.97	493019.21	1110.50	1108.33	2.17	0.02	2.00	6.00	84.50	1023.83	10/20	52.17	54.17	1054.16	84.50	1023.83	84.90	1023.43	NA	NA	NA
OW-60	G-143845B	2627137.87	497440.67	1149.15	1146.66	2.49	0.01	2.00	8.50	101.00	1045.66	NAT	76.00	81.00	1065.66	101.00	1045.66	101.00	1045.66	NA	NA	NA
OW-61	G-143845K	2627191.65	497571.53	1148.81	1146.51	2.30	0.01	2.00	8.50	101.30	1045.21	NAT	75.00	81.00	1065.51	101.30	1045.21	101.30	1045.21	NA	NA	NA
OW-62	G-143845L	2627351.22	497954.27	1151.40	1149.12	2.28	0.01	2.00	8.50	101.30	1047.82	NAT	75.80	81.00	1068.12	101.30	1047.82	101.30	1047.82	NA	NA	NA
OW-63	G-143845M	2627527.96	497841.89	1152.90	1150.58	2.32	0.01	2.00	8.50	101.30	1049.28	NAT	75.80	81.00	1069.58	101.30	1049.28	101.30	1049.28	NA	NA	NA
OW-64	G-143845N	2627299.94	497308.27	1148.12	1145.62	2.50	0.01	2.00	8.50	101.30	1044.32	NAT	75.00	81.00	1064.62	101.30	1044.32	101.30	1044.32	NA	NA	NA
OW-65	G-143845O	2627672.94	497146.26	1147.36	1144.93	2.43	0.01	2.00	8.50	101.30	1043.63	NAT	76.00	81.00	1063.93	101.30	1043.63	101.30	1043.63	NA	NA	NA
OW-66	G-143845P	2622938.07	497314.20	1147.09	1144.70	2.39	0.01	2.00	8.50	86.00	1058.70	NAT	66.00	71.00	1073.70	86.00	1058.70	86.00	1058.70	NA	NA	NA
OW-67	G-143845Q	2622730.72	497150.23	1149.64	1147.31	2.33	0.01	2.00	8.50	86.00	1061.31	NAT	67.50	71.00	1076.31	86.00	1061.31	86.00	1061.31	NA	NA	NA
OW-68	G-143845R	2622418.58	496526.17	1146.89	1144.49	2.40	0.01	2.00	8.50	77.20	1067.29	NAT	58.00	62.20	1082.29	77.20	1067.29	77.20	1067.29	NA	NA	NA
OW-69	G-143845S	2623044.57	497134.81	1147.02	1144.82	2.20	0.01	2.00	8.50	86.00	1058.82	NAT	66.00	71.00	1073.82	86.00	1058.82	86.00	1058.82	NA	NA	NA
OW-70	G-143845T	2623340.91	496845.85	1146.14	1143.72	2.42	0.01	2.00	8.50	86.00	1057.72	NAT	66.00	71.00	1072.72	86.00	1057.72	86.00	1057.72	NA	NA	NA
OW-71	G-143845U	2623796.31	497474.10	1158.23	1155.75	2.48	0.01	2.00	8.50	109.00	1046.75	NAT	73.50	78.50	1077.25	108.50	1047.25	109.00	1046.75	NA	NA	NA
OW-72	G-143845V	2620345.78	495292.98	1156.05	1153.61	2.44	0.01	2.00	8.50	97.00	1056.61	NAT	74.00	77.00	1076.61	97.00	1056.61	97.00	1056.61	NA	NA	NA
OW-73	G-143845W	2620217.61	495239.66	1157.61	1154.97	2.64	0.01	2.00	8.50	97.00	1057.97	NAT	73.00	77.00	1077.97	97.00	1057.97	97.00	1057.97	NA	NA	NA
OW-74	G-143845X	2619854.18	494895.06	1148.38	1146.17	2.21	0.01	2.00	8.50	85.80	1060.37	NAT	62.00	65.80	1080.37	85.80	1060.37	86.00	1060.17	NA	NA	NA
OW-75	G-143845Y	2620487.46	495139.42	1154.51	1152.14	2.37	0.01	2.00	8.50	97.00	1055.14	NAT	74.00	77.00	1075.14	97.00	1055.14	97.00	1055.14	NA	NA	NA
OW-76	G-143845Z	2620657.85	494777.17	1148.68	1146.27	2.41	0.01	2.00	8.50	97.00	1049.27	NAT	74.00	77.00	1069.27	97.00	1049.27	97.00	1049.27	NA	NA	NA
OW-77	G-143845AA	2621414.78	495808.38	1157.82	1155.32	2.50	0.01	2.00	8.50	85.00	1070.32	NAT	61.80	65.00	1090.32	85.00	1070.32	85.00	1070.32	NA	NA	NA
OW-78	G-143845AB	2609111.28	499977.47	1163.94	1161.86	2.08	0.01	2.00	8.50	137.00	1024.86	NAT	87.80	97.00	1064.86	137.00	1024.86	137.00	1024.86	NA	NA	NA
OW-79	G-143845AC	2608989.60	499915.27	1167.29	1167.59	-0.30	0.01	2.00	8.50	135.50	1032.09	NAT	89.00	95.50	1072.09	135.50	1032.09	137.00	1030.59	NA	NA	NA
OW-80	G-143845AD	2608751.82	499731.59	1169.30	1166.93	2.37	0.01	2.00	8.50	113.00	1053.93	NAT	63.60	73.00	1093.93	113.00	1053.93	113.00	1053.93	NA	NA	NA
OW-81	G-143845AE	2609233.49	499803.10	1164.13	1161.98	2.15	0.01	2.00	8.50	137.00	1024.98	NAT	89.00	97.00	1064.98	137.00	1024.98	137.20	1024.78	NA	NA	NA
OW-82	G-143845AF	2609366.00	499415.33	1169.05	1166.76	2.29	0.01	2.00	8.50	137.00	1029.76	NAT	87.90	97.00	1069.76	137.00	1029.76	137.00	1029.76	NA	NA	NA

Table 2-1
USACE Monitoring Well and Observation Well Construction Details
2012 Groundwater Model Update
Former Nebraska Ordnance Plant, Mead, Nebraska

		E-83	N-83	TOC-88	Ground					Bottom of Well		Filter	Depth to	Top of Screen		Bottom of Screen		Bottom of Boring		Top of Bedrock		Bedrock
ID	DNR registration No.	Easting (NAD83)	Northing (NAD 83)	TOC Elev (ft NAVD 88)	Surface Elev (ft NAVD 88)	STICK UP	SLOT SIZE	Well Dia. (inches)	Boring Dia. (inches)	Depth (ft bgs)	Elevation (ft NAVD88)	pack size	Top of Filter Pack (ft bgs)	Depth (ft bgs)	Elevation (ft NAVD88)	Depth (ft bgs)	Elevation (ft NAVD88)	Depth (ft bgs)	Elevation (ft NAVD88)	Depth (ft bgs)	Elevation (ft NAVD88)	Type
OW-83	G-143845AG	2609754.89	500075.01	1173.20	1170.94	2.26	0.01	2.00	8.50	137.10	1033.84	NAT	89.00	97.00	1073.94	137.10	1033.84	137.10	1033.84	NA	NA	NA
OW-89	G-143845AH	2632605.05	496433.60	1092.56	1092.96	-0.40	0.01	2.00	8.50	47.30	1045.66	NAT	34.50	37.30	1055.66	47.30	1045.66	47.80	1045.16	NA	NA	NA
OW-90	G-153176	2625244.14	498690.84	1153.30	1152.00	2.72	0.01	2.00	8.50	103.00	1049.00	NAT	83.00	88.00	1064.00	103.00	1049.00	103.00	1049.00	NA	NA	NA
OW-91 (Abandoned)	G-151349	2625889.66	497888.61	1150.12	1147.35	2.84	0.01	2.00	8.00	105.00	1042.35	NAT	73.00	85.00	1062.35	105.00	1042.35	105.00	1042.35	NA	NA	NA
OW-92	G-152715A	2625155.78	498583.33	1154.30	1151.63	2.67	0.01	2.00	8.00	104.10	1047.53	NAT	85.00	89.10	1062.53	104.10	1047.53	104.10	1047.53	NA	NA	NA
OW-93	G-152615I	2625291.12	498721.87	1156.87	1153.90	2.97	0.01	2.00	8.50	97.00	1056.90	NAT	83.00	87.00	1066.90	97.00	1056.90	97.00	1056.90	NA	NA	NA
OW-94	G-152715B	2625433.51	498611.46	1153.21	1150.48	2.73	0.01	2.00	8.00	105.00	1045.48	NAT	84.00	90.00	1060.48	105.00	1045.48	105.00	1045.48	NA	NA	NA
OW-95	G-152715C	2625755.73	498358.54	1150.04	1147.57	2.47	0.01	2.00	8.00	104.00	1043.57	NAT	85.00	89.00	1058.57	104.00	1043.57	104.00	1043.57	NA	NA	NA
OW-96	G-151351	2628354.01	496783.72	1146.64	1143.33	3.25	0.01	2.00	8.00	94.00	1049.33	NAT	66.00	74.00	1069.33	94.00	1049.33	94.00	1049.33	NA	NA	NA
OW-97	G-152615A	2628422.98	496909.51	1146.21	1143.71	2.50	0.01	2.00	8.50	103.00	1040.71	NAT	56.00	83.00	1060.71	103.00	1040.71	103.00	1040.71	NA	NA	NA
OW-98	G-152615B	2628617.39	497268.67	1150.67	1148.38	2.29	0.01	2.00	8.50	104.00	1044.38	NAT	80.00	84.00	1064.38	104.00	1044.38	104.00	1044.38	NA	NA	NA
OW-99	G-152615C	2628520.49	496667.07	1146.97	1144.12	2.85	0.01	2.00	8.50	99.50	1044.62	NAT	99.50	79.50	1064.62	99.50	1044.62	99.50	1044.62	NA	NA	NA
OW-100	G-152615D	2628885.60	496489.50	1147.39	1144.96	2.43	0.01	2.00	8.50	98.00	1046.96	NAT	74.00	78.00	1066.96	98.00	1046.96	98.00	1046.96	NA	NA	NA
OW-101	G-151347	2622907.33	509987.52	1168.26	1168.27	-0.01	0.01	2.00	8.00	109.00	1059.27	NAT	68.00	79.00	1089.27	109.00	1059.27	109.00	1059.27	NA	NA	NA
OW-102	G-152615E	2623025.62	510070.30	1166.49	1166.47	0.02	0.01	2.00	8.50	109.50	1056.97	NAT	73.00	79.00	1087.47	109.50	1056.97	109.50	1056.97	NA	NA	NA
OW-103	G-152615F	2623370.57	510291.27	1169.13	1169.11	0.02	0.01	2.00	8.50	112.00	1057.11	NAT	76.00	82.00	1087.11	112.00	1057.11	112.00	1057.11	NA	NA	NA
OW-104	G-152615G	2622969.37	509760.45	1167.73	1167.73	0.00	0.01	2.00	8.50	109.00	1058.73	NAT	73.00	79.00	1088.73	109.00	1058.73	109.00	1058.73	NA	NA	NA
OW-105	G-152615H	2623170.60	509450.30	1165.40	1165.34	0.06	0.01	2.00	8.50	114.00	1051.34	NAT	79.00	84.00	1081.34	114.00	1051.34	114.00	1051.34	NA	NA	NA
OW-106	G-164392	2611437.33	493518.06	1116.108	1113.437	2.67	0.01	2.00	8.25	88.50	1024.94	NAT	54.90	58.50	1054.94	88.50	1024.94	88.50	1024.94	NA	NA	NA
OW-107	G-164393	2611500.55	493522.80	1116.009	1113.732	2.28	0.01	2.00	8.25	89.00	1024.73	NAT	44.10	59.00	1054.73	89.00	1024.73	89.00	1024.73	NA	NA	NA
OW-108	G-164391	2611480.69	493520.70	1115.825	1113.26	2.56	0.01	2.00	8.25	92.34	1020.92	NAT	44.00	62.34	1050.92	92.34	1020.92	92.34	1020.92	NA	NA	NA
TH-EW-12	G-154545FU	2610738.32	493102.14	1107.37	1105.17	2.20	0.02	2.00	6.00	87.50	1017.67	10/20	51.50	57.17	1048.00	87.50	1017.67	93.00	1012.17	90.50	1014.67	SH
TH-EW-13	G-154545FV	2611511.12	493072.65	1111.04	1108.85	2.19	0.02	2.00	6.00	84.83	1024.02	10/20	52.17	53.50	1055.35	83.83	1025.02	84.50	1024.35	84.00	1024.85	SH
TH-EW-14R1	G-152958A	2625268.99	498721.42	1156.72	1154.02	0.85	0.01	3.00	8.00	103.00	1154.02	NAT	82.00	88.00	1066.02	103.00	1051.02	103.00	1051.02	103.00	1051.02	SS
TH-EW-14R2	G-152958B	2625871.91	497850.00	1151.08	1147.74	3.15	0.01	3.00	8.00	105.00	1147.74	NAT	52.00	85.00	1062.74	105.00	1042.74	105.50	1042.24	105.00	1042.74	SS
TH-EW-15	G-151348	2622870.43	509960.21	1172.51	1168.34	4.17	0.01	3.00	8.00	109.00	1168.34	NAT	41.00	79.00	1089.34	109.00	1059.34	109.00	1059.34	109.00	1059.34	SS
TH-EW-16	G-151352	2628310.33	496736.54	1147.71	1144.38	3.90	0.01	3.00	8.00	99.00	1045.38	NAT	53.00	74.00	1070.38	99.00	1045.38	99.00	1045.38	99.00	1059.34	SS
TH-EW-17	G-164390	2611500.546	493522.799	1116.449	1114.03	2.42	0.01	4.00	8.25	89.00	1114.03	NAT	40.00	59.00	1055.03	89.00	1025.03	89.00	1025.03	NP	NP	NP
PZ-01		2632385.13	499049.59	1116.38	1114.43	1.95	0.01	1.00	2.60	67.80	1046.63	20/40	45.00	47.80	1066.63	67.80	1046.63	69.00	1045.43	NP	NP	NP
PZ-02		2631558.74	499022.44	1130.80	1128.98	1.82	0.01	1.00	3.13	78.90	1050.08	20/40	56.00	58.70	1070.28	78.70	1050.28	80.00	1048.98	NP	NP	NP
PZ-03 (Abandoned)		2633505.55	501788.92	1087.47	1085.73	1.74	0.01	1.00	3.13	30.10	1055.63	20/40	8.00	10.10	1075.63	30.10	1055.63	31.00	1054.73	NP	NP	NP
PZ-04 (Abandoned)		2636059.39	501690.72	1086.65	1084.66	1.99	0.01	1.00	3.13	33.70	1050.96	20/40	11.70	13.70	1070.96	33.70	1050.96	34.00	1050.66	NP	NP	NP
PZ-05 (Abandoned)		2639988.15	502024.73	1085.66	1084.19	1.47	0.01	1.00	3.13	33.90	1050.29	20/40	11.90	13.90	1070.29	33.90	1050.29	35.00	1049.19	NP	NP	NP
PZ-06 (Abandoned)		2636834.71	504539.69	1088.42	1086.41	2.01	0.01	1.00	3.13	29.70	1056.71	20/40	7.70	9.70	1076.71	29.70	1056.71	31.00	1055.41	NP	NP	NP
PZ-11	G-157081	2633021.33	501935.48	1097.61	1097.92	-0.31	0.02	2.00	6.00	60.00	1037.92	10/20	53.50	55.00	1042.92	60.00	1037.92	65.00	1032.92	NP	NP	NP
PZ-12	G-157082	2632569.72	499118.82	1105.36	1105.72	-0.36	0.02	2.00	6.00	68.00	1037.72	10/20	61.00	63.00	1042.72	68.00	1037.72	70.00	1035.72	NP	NP	SS
PZ-13	G-157083	2633396.43	499150.91	1085.78	1086.09	-0.31	0.02	2.00	6.00	40.00	1046.09	10/20	33.00	35.00	1051.09	40.00	1046.09	40.00	1046.09	NP	NP	NP
PZ-14	G-157084	2633403.55	499154.07	1084.94	1085.31	-0.37	0.02	2.00	6.00	54.00	1031.31	10/20	47.00	49.00	1036.31	54.00	1031.31	57.00	1028.31	NP	NP	SS
EW-1 (Abandoned)	G-100738	2634923.15	495188.01	1079.43	1078.08	1.35	0.04	12.00	24.00	39.00	1039.08	80/120	18.90	23.00	1055.08	39.00	1039.08	39.00	1039.08	39.00	1039.08	SS
EW-1R	G-100738	2634925.36	495203.98	1079.32	1078.35	0.97	0.03	12.00	24.00	42.50	1035.85	80/120	20.00	24.50	1053.85	42.50	1035.85	43.50	1034.85	43.50	1034.85	SS
EW-2	G-127291A	2632445.94	496479.68	1104.28	1101.00	3.28	0.05	12.00	24.00	57.85	1043.15	# 1	20.25	46.85	1054.15	56.85	1044.15	58.80	1042.20	58.00	1043.00	SH
EW-3	G-127291B	2629583.28	497009.50	1150.01	1148.00	2.01	0.04	12.00	24.00	103.04	1044.96	NA	58.29	87.04	1060.96	102.04	1045.96	103.80	1044.20	102.80	1045.20	SS
EW-4	G-127291C	2627116.15	497384.35	1148.68	1146.00	2.68	0.02	12.00	24.00	102.25	1043.75	NA	51.75	82.25	1063.75	101.25	1044.75	103.00	1043.00	102.80	1043.20	SS
EW-5	G-127291D	2624295.95	497923.55	1153.98	1151.00	2.98	0.02	12.00	24.00	103.10	1047.90	NA	51.30	81.10	1069.90	102.10	1048.90	104.50	1046.50	103.50	1047.50	SH
EW-6	G-127291E	2622893.13	497269.21	1147.98	1144.00	3.98	0.04	12.00	24.00	87.30	1056.70	NA	42.90	71.30	1072.70	86.30	1057.70	89.50	1054.50	88.50	1055.50	SS
EW-7	G-127291F	2621781.70	496331.02	1148.38	1146.00	2.38	0.02	12.00	24.00	92.21	1053.79	NA	47.21	76.21	1069.79	91.21	1054.79	92.50	1053.50	91.50	1054.50	SS
EW-8	G-100739	2607941.21	499754.08	1160.39	1159.03	1.36	0.04	12.00	24.00	152.00	1007.03	80/120	59.50	72.00	1087.03	152.00	1007.03	156.00	1003.03	152.00	1007.03	SH
EW-9	G-127291G	2620401.52	495319.73	1154.67	1152.00	2.67	0.04	12.00	24.00	98.23	1053.77	NA	49.41	77.23	1074.77	97.23	1054.77	104.00	1048.00	103.00	1049.00	SS

Table 2-1
USACE Monitoring Well and Observation Well Construction Details
2012 Groundwater Model Update
Former Nebraska Ordnance Plant, Mead, Nebraska

		E-83	N-83	TOC-88	Ground					Bottom of Well		Filter	Depth to	Top of Screen		Bottom of Screen		Bottom of Boring		Top of Bedrock		Bedrock
ID	DNR registration No.	Easting (NAD83)	Northing (NAD 83)	TOC Elev (ft NAVD 88)	Surface Elev (ft NAVD 88)	STICK UP	SLOT SIZE	Well Dia. (inches)	Boring Dia. (inches)	Depth (ft bgs)	Elevation (ft NAVD88)	pack size	Top of Filter Pack (ft bgs)	Depth (ft bgs)	Elevation (ft NAVD88)	Depth (ft bgs)	Elevation (ft NAVD88)	Depth (ft bgs)	Elevation (ft NAVD88)	Depth (ft bgs)	Elevation (ft NAVD88)	Type
EW-10	G-127291H	2619241.53	494857.11	1150.64	1148.00	2.64	0.02	12.00	24.00	99.77	1048.23	NA	45.00	78.77	1069.23	98.77	1049.23	104.00	1044.00	99.50	1048.50	SS
FEW-11	G-127291I	2609168.88	499998.83	1162.77	1161.00	1.77	0.05	12.00	24.00	138.05	1022.95	NA	42.48	92.05	1068.95	137.05	1023.95	140.00	1021.00	139.00	1022.00	SS
EW-12	G-140506A	2610718.18	493104.87	1113.72	1110.80	2.92	0.03	12.00	24.00	90.50	1020.30	10/20	10.00	60.50	1050.30	90.50	1020.30	92.50	1018.30	91.50	1019.30	SH
EW-13	G-140506B	2611520.73	493092.65	NA	1109.39		0.03	12.00	24.00	83.00	1026.39	10/20	13.00	53.00	1056.39	83.00	1026.39	85.00	1024.39	84.00	1025.39	SH
FEW-14	G-153001	2625283.55	498733.83	1155.99	1154.01	1.98	0.03	12.00	24.00	108.00	1046.01	#2	56.80	87.00	1067.01	104.10	1049.91	108.00	1046.01	105.00	1049.01	SS
FEW-15	G-153002	2622859.07	509950.92	1169.64	1167.62	2.02	0.03	12.00	24.00	111.00	1056.62	#0	40.70	79.90	1087.72	110.00	1057.62	111.00	1056.62	109.00	1058.62	SS
EW-16	G-153003	2628322.89	496730.64	1146.97	1144.95	2.02	0.03	12.00	24.00	102.00	1042.95	#0	55.60	80.00	1064.95	100.00	1044.95	102.00	1042.95	99.00	1045.95	SS
NLF-MW01S	UNL	2627482.80	508537.55	1151.59	1148.91	2.68	0.01	2.00	8.50	44.70	1104.21	10/30	33.00	34.40	1114.51	44.40	1104.51	46.00	1102.91	NP	NP	NP
NLF-MW01I	UNL	2627492.64	508537.67	1151.47	1148.90	2.57	0.01	2.00	8.50	64.70	1084.20	10/30	51.50	54.40	1094.50	64.40	1084.50	66.00	1082.90	63.20	1085.70	SH
NLF-MW02S	UNL	2627651.96	508654.32	1146.71	1144.07	2.64	0.01	2.00	8.50	40.30	1103.77	10/30	27.60	30.00	1114.07	40.00	1104.07	41.20	1102.87	NP	NP	NP
NLF-MW02I	UNL	2627655.27	508651.08	1146.66	1143.97	2.69	0.01	2.00	8.50	58.50	1085.47	10/30	45.30	48.20	1095.77	58.20	1085.77	59.30	1084.67	57.20	1086.77	SH
NLF-MW03S	UNL	2627718.61	508563.28	1149.38	1146.67	2.71	0.01	2.00	8.50	43.70	1102.97	10/30	31.60	33.40	1113.27	43.40	1103.27	44.40	1102.27	NP	NP	NP
NLF-MW03I	UNL	2627718.46	508576.40	1148.89	1146.21	2.68	0.01	2.00	8.50	62.00	1084.21	10/30	49.00	52.40	1093.81	62.40	1083.81	65.00	1081.21	62.00	1084.21	SH
NLF-MW04S	UNL	2627719.69	508471.47	1151.54	1148.83	2.71	0.01	2.00	8.50	44.90	1103.93	10/30	32.40	34.60	1114.23	44.60	1104.23	46.00	1102.83	NP	NP	NP
NLF-MW04I	UNL	2627719.58	508481.31	1151.22	1148.63	2.59	0.01	2.00	8.50	56.80	1091.83	10/30	43.00	46.50	1102.13	56.50	1092.13	58.00	1090.63	56.00	1092.63	SH
NLF-MW05S	UNL	2627687.94	508382.55	1149.23	1146.51	2.72	0.01	2.00	8.50	44.50	1102.01	10/30	32.30	34.20	1112.31	44.20	1102.31	44.90	1101.61	NP	NP	NP
NLF-MW05I	UNL	2627691.34	508372.75	1148.65	1146.03	2.62	0.01	2.00	8.50	54.40	1091.63	10/30	42.20	44.20	1101.83	54.20	1091.83	60.00	1086.03	59.70	1086.33	SH
NLF-MW06S	UNL	2627629.12	508365.46	1150.94	1148.24	2.70	0.01	2.00	8.50	45.50	1102.74	10/30	33.00	35.20	1113.04	42.20	1106.04	46.00	1102.24	NP	NP	NP
NLF-MW06I	UNL	2627639.03	508359.02	1150.51	1147.88	2.63	0.01	2.00	8.50	62.70	1085.18	10/30	50.00	52.40	1095.48	62.40	1085.48	64.00	1083.88	62.10	1085.78	SH
NLF-MW07S	UNL	2627553.24	508403.93	1152.38	1149.79	2.59	0.01	2.00	8.50	48.30	1101.49	10/30	35.00	38.00	1111.79	48.00	1101.79	49.30	1100.49	NP	NP	NP
NLF-MW07I	UNL	2627559.79	508404.00	1152.38	1149.72	2.59	0.01	2.00	8.50	65.60	1084.12	10/30	52.70	55.30	1094.42	65.30	1084.42	66.30	1083.42	64.70	1085.02	SH
NPR-MW01S	UNL	2626816.17	504709.21	1150.69	1148.19	2.51	0.01	2.00	8.50	56.30	1091.89	10/30	43.80	46.10	1102.09	56.10	1092.09	56.90	1091.29	NP	NP	NP
NPR-MW01I	UNL	2626822.73	504709.28	1150.61	1147.90	2.71	0.01	2.00	8.50	91.40	1056.50	NAT	80.00	81.10	1066.80	91.10	1056.80	91.50	1056.40	89.00	1058.90	SS
NPR-MW02S	UNL	2626883.56	504555.87	1149.23	1146.63	2.75	0.01	2.00	8.50	55.30	1091.33	10/30	43.00	45.10	1101.53	55.10	1091.53	56.30	1090.33	NP	NP	NP
NPR-MW02I	UNL	2626890.12	504555.94	1149.17	1146.42	2.60	0.01	2.00	8.50	90.70	1055.72	NAT	45.50	80.40	1066.02	90.40	1056.02	91.50	1054.92	89.80	1056.62	SS
BAZE-EW-01	UNL	2616100.05	502126.72	1163.30	NA		0.02	6.00	10.00	75.50	NA	16/30	49.00	53.00	NA	73.00	NA	75.50	NA	NP	NP	NP
BAZE-IW-01	UNL	2616088.45	502117.03	1163.06	NA		0.02	4.00	8.00	73.00	NA	16/30	49.00	53.00	NA	73.00	NA	75.00	NA	NP	NP	NP
BAZE-IW-02	UNL	2616111.13	502135.81	1163.49	NA		0.02	4.00	8.00	73.00	NA	16/30	49.00	53.00	NA	73.00	NA	75.00	NA	NP	NP	NP
BAZE-MW-01	UNL	2616042.51	502209.13	1165.18	NA		0.01	2.00	8.25	78.00	NA	20/40	48.00	55.00	NA	75.00	NA	78.00	NA	NP	NP	NP
BAZE-MW-02	UNL	2616116.85	502075.19	1163.66	NA		0.01	2.00	8.25	73.00	NA	20/40	47.00	53.00	NA	73.00	NA	75.00	NA	NP	NP	NP
BAZE-MW-03	UNL	2616128.60	502084.65	1163.66	NA		0.01	2.00	8.25	73.00	NA	20/40	47.00	53.00	NA	73.00	NA	75.00	NA	NP	NP	NP
BAZE-MW-04	UNL	2616140.55	502094.05	1163.65	NA		0.01	2.00	8.25	73.00	NA	20/40	47.00	53.00	NA	73.00	NA	75.00	NA	NP	NP	NP
BAZE-MW-05	UNL	2616145.22	502038.03	1165.35	NA		0.01	2.00	8.25	78.00	NA	20/40	52.00	58.00	NA	78.00	NA	78.00	NA	NP	NP	NP
BAZE-MW-06	UNL	2616157.13	502044.01	1165.82	NA		0.01	2.00	8.25	76.00	NA	20/40	50.00	56.00	NA	76.00	NA	78.00	NA	NP	NP	NP
BAZE-MW-07	UNL	2616168.23	502053.89	1167.10	NA		0.01	2.00	8.25	79.00	NA	20/40	53.00	59.00	NA	79.00	NA	79.00	NA	NP	NP	NP
BAZE-MW-08	UNL	2616202.28	501950.73	1166.37	NA		0.01	2.00	8.25	76.00	NA	20/40	50.00	56.00	NA	76.00	NA	78.00	NA	NP	NP	NP
BAZE-MW-09	UNL	2616214.12	501959.62	1166.81	NA		0.01	2.00	8.25	76.00	NA	20/40	50.00	56.00	NA	76.00	NA	78.00	NA	NP	NP	NP
BAZE-MW-10	UNL	2616225.63	501970.02	1166.96	NA		0.01	2.00	8.25	76.00	NA	20/40	50.00	56.00	NA	76.00	NA	76.00	NA	NP	NP	NP
BAZE-MW-11	UNL	2616437.05	501626.79	1161.20	NA		0.01	2.00	8.25	72.00	NA	20/40	46.00	52.00	NA	72.00	NA	75.00	NA	NP	NP	NP
GCW-2 (Abandoned)	abandoned	2613252.36	506039.55	1163.17	NA		0.02	6.00	16.00	60.00	NA	20/40	50.00	NA	NA	60.00	NA	62.00	NA	NP	NP	NP
GCW-2 PZ N (Abandoned)	abandoned	2613252.84	506040.07	1162.59	NA		0.03	2.00	16.00	37.00	NA	16/30	12.00	35.00	NA	37.00	NA	62.00	NA	NP	NP	NP
GCW-2 PZ S (Abandoned)	abandoned	2613252.39	506039.09	1162.56	NA		0.02	2.00	16.00	56.00	NA	20/40	47.10	54.00	NA	56.00	NA	62.00	NA	NP	NP	NP
GCW-1		2622991.70	511987.67	1167.69	NA		0.02	12.00	24.00	108.00	NA	20/40	89.00	NA	NA	108.00	NA	110.30	NA	NP	NP	NP
GCW-1 PZ N	NA	2622990.98	511987.59	1166.89	NA		0.02	2.00	24.00	66.00	NA	20/40	39.00	64.00	NA	66.00	NA	110.30	NA	NP	NP	NP
GCW-1 PZ S	NA	2622992.24	511987.34	1166.93	NA		0.02	2.00	24.00	99.50	NA	4/8	85.60	97.50	NA	99.50	NA	110.30	NA	NP	NP	NP
MW-06-30A	MUD	2628947.80	514835.86	1199.31	1197.00	2.31																
MW-06-30B	MUD	2628942.36	514835.12	1199.37	1197.04	2.33																
MW-06-31A	MUD	2633854.92	509717.60	1149.98	1147.74	2.24																
MW-06-31B	MUD	2633861.66	509718.75	1150.02	1147.66	2.36																

Table 2-1
USACE Monitoring Well and Observation Well Construction Details
2012 Groundwater Model Update
Former Nebraska Ordnance Plant, Mead, Nebraska

ID	DNR registration No.	E-83 Easting (NAD83)	N-83 Northing (NAD 83)	TOC-88 TOC Elev (ft NAVD 88)	Ground Surface Elev (ft NAVD 88)	STICK UP	SLOT SIZE	Well Dia. (inches)	Boring Dia. (inches)	Bottom of Well Depth (ft bgs)	Bottom of Well Elevation (ft NAVD88)	Filter pack size	Depth to Top of Filter Pack (ft bgs)	Top of Screen Depth (ft bgs)	Top of Screen Elevation (ft NAVD88)	Bottom of Screen Depth (ft bgs)	Bottom of Screen Elevation (ft NAVD88)	Bottom of Boring Depth (ft bgs)	Bottom of Boring Elevation (ft NAVD88)	Top of Bedrock Depth (ft bgs)	Top of Bedrock Elevation (ft NAVD88)	Bedrock Type
KM-01 (Abandoned)	abandoned	2633083.28	503038.31											42.0		46.0		68.00		67		
KM-02 (Abandoned)	abandoned	2634645.89	503202.13											24.3		34.3		47.60		46		
KM-03 (Abandoned)	abandoned	2632919.45	502798.88											91.0		101.0		152.4		79		

Notes:

BAZE = Biologically Active Zone Enhancement
ft = feet
bgs = below ground surface
NGVD = National Geodetic Vertical Datum
DNR - Department of Natural Resources
EW = Extraction Well

UNL = University of Nebraska-Lincoln
FEW = Focused Extraction Well
MW = Monitoring Well
OW = Observation Well
NA = Information not available
NP = Top of bedrock was not penetrated

PZ = piezometer
NS = Monitoring well elevations have not been surveyed at the time of this report
SS = Sandstone
SH = Shale
* = Historical well installed but construction details are not available
GCW = groundwater circulation well

Information is preliminary and measurements may change.

Table 2-2
Elevation of Top of Bedrock and Base of Loess/Overbank Fines
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Boring Name	Easting (NAD 83)	Northing (NAD 83)	Ground Surface Elev. (ft NAVD 88)	Thickness of Loess or Overbank Fines (ft)	Bottom Elev. of Loess or Overbank Fines (ft NAVD 88)	Top of Omadi Depth (ft bgs)	Top of Omadi Elevation (ft NAVD 88)	First Encountered Bedrock Type	Top of Pennsylvanian (ft bgs)	Pennsylvanian Bedrock Elevation (ft NAVD 88)
ADS-003	2604191.65	522957.92	1201.93	5	1196.9	NA	NA	NA	NA	NA
ADS-005	2604579.81	522582.63	1199.11	17.5	1181.6	NA	NA	NA	NA	NA
ADS-022	2604081.81	522345.32	1203.37	15.5	1187.9	NA	NA	NA	NA	NA
ATL-006	2621936.33	515640.34	1167.00	12	1155.0	NA	NA	NA	NA	NA
ATL-048	2621739.52	515431.35	1172.01	16	1156.0	NA	NA	NA	NA	NA
ATL-058	2619307.93	516416.41	1171.69	16	1155.7	NA	NA	NA	NA	NA
ATL-059	2619543.24	516171.11	1172.53	19.8	1152.7	NA	NA	NA	NA	NA
ATL-060	2619778.55	515925.82	1173.17	18.5	1154.7	NA	NA	NA	NA	NA
ATL-063	2620484.51	515189.89	1174.71	18	1156.7	NA	NA	NA	NA	NA
ATL-065	2620955.10	514699.21	1176.83	17	1159.8	NA	NA	NA	NA	NA
ATL-083	2621415.65	513727.92	1173.50	16	1157.5	NA	NA	NA	NA	NA
ATL-086	2618346.66	516436.42	1174.06	16	1158.1	NA	NA	NA	NA	NA
ATL-099	2618336.70	515955.84	1179.81	16	1163.8	NA	NA	NA	NA	NA
ATL-105	2619748.59	514484.00	1176.19	16	1160.2	NA	NA	NA	NA	NA
ATL-113	2618562.01	515229.98	1181.92	8	1173.9	NA	NA	NA	NA	NA
EW-10	2619241.53	494857.11	1148.00	15	1133.0	99.5	1048.5	SS	NA	NA
EW-12	2610718.18	493104.87	1110.80	9	1101.8	NA	NA	NA	NA	NA
EW-13	2611520.73	493092.65	1109.39	15	1094.4	NA	NA	NA	NA	NA
EW-16	2628322.89	496730.64	1144.95	17.4	1127.6	NA	NA	NA	NA	NA
EW-2	2632445.94	496479.68	1101.00	20	1081.0	NA	NA	NA	NA	NA
EW-3	2629583.28	497009.50	1148.00	10	1138.0	NA	NA	NA	NA	NA
EW-4	2627116.15	497384.35	1146.00	19	1127.0	NA	NA	NA	NA	NA
EW-5	2624295.95	497923.55	1151.00	15	1136.0	NA	NA	NA	NA	NA
EW-6	2622893.13	497269.21	1144.00	20	1124.0	NA	NA	NA	NA	NA
EW-7	2621781.70	496331.02	1146.00	15	1131.0	NA	NA	NA	NA	NA
EW-8	2607941.21	499754.08	1159.03	20	1139.0	NA	NA	NA	NA	NA
EW-9	2620401.52	495319.73	1152.00	20	1132.0	NA	NA	NA	NA	NA
FEW-11	2609168.88	499998.83	1161.00	20	1141.0	NA	NA	NA	NA	NA
FEW-14	2625283.55	498733.83	1154.01	17.5	1136.5	NA	NA	NA	NA	NA
FEW-15	2622859.07	509950.92	1167.62	17.5	1150.1	NA	NA	NA	NA	NA
G-000350	2599733.62	502608.44	1168.50	18	1150.5	119	1049.9	SS	NA	NA
G-000690	2655460.02	552313.11	1120.50	15	1105.5	87	1033.9	NA	NA	NA
G-004921	2601875.74	541071.31	1224.50	22	1202.5	NA	NA	NA	NA	NA
G-008876	2597949.09	520804.23	1191.50	18	1173.5	NA	NA	NA	NA	NA
G-009033	2661046.11	500312.11	1088.60	17	1071.5	50.4	1038.2	SS	NA	NA
G-010673	2587704.25	512975.76	1190.47	18	1172.5	NA	NA	NA	NA	NA
G-010674	2588887.51	509759.28	1185.44	18	1167.4	NA	NA	NA	NA	NA
G-011280	2659537.66	513492.85	1097.80	5	1092.8	60	1038.1	SS	NA	NA
G-013220	2592858.69	515723.27	1185.90	18	1167.9	NA	NA	NA	NA	NA
G-014161	2659433.21	507749.20	1094.20	27	1067.2	67	1027.6	SS	NA	NA
G-014821	2635340.52	503188.21	1088.50	17	1071.5	47.0	1041.5	NA	NA	NA
G-015211	2654848.71	519216.97	1104.40	9	1095.4	54	1050.8	SS	NA	NA
G-015507	2605366.44	536524.14	1210.49	19	1191.5	NA	NA	NA	NA	NA
G-015644	2598458.65	538277.86	1216.70	18.1	1198.6	138.0	1078.7	NA	NA	NA
G-017656	2661194.44	533428.03	1110.40	15	1095.4	NA	NA	NA	NA	NA
G-017694	2659305.65	551006.10	1128.44	22	1106.4	NA	NA	NA	NA	NA
G-018141	2660938.09	548651.40	1120.46	20	1100.5	NA	NA	NA	NA	NA
G-018285	2628140.31	485091.21	1133.30	19	1114.3	101.6	1031.7	SH/SS	NA	NA
G-018285	2628772.67	485732.47	1138.80	23	1115.8	NA	NA	NA	NA	NA
G-018747	2619687.95	474325.66	1104.50	15	1089.5	60	1044.9	SS	NA	NA
G-020313	2608603.32	531249.30	1204.60	17.5	1187.1	NA	NA	NA	NA	NA
G-021194	2648203.31	495778.62	1080.40	15	1065.4	NA	NA	NA	NA	NA
G-022336	2651807.20	523684.22	1101.40	12	1089.4	NA	NA	NA	NA	NA
G-028138	2630732.73	501664.51	1136.40	15	1121.4	89.9	1046.5	SS	NA	NA
G-030678	2617221.28	478589.42	1094.50	18.1	1076.4	76.0	1018.5	NA	NA	NA
G-033471	2627210.21	555126.32	1152.20	22	1130.2	95.1	1057.1	SS	NA	NA
G-033607	2588112.57	524692.07	1190.88	17	1173.9	NA	NA	NA	NA	NA
G-033747	2613731.62	499751.97	1162.23	18	1144.2	NA	NA	NA	NA	NA
G-033748	2619817.35	510500.86	1173.70	19	1154.7	119.1	1054.6	SS	NA	NA
G-033749	2609160.16	510252.38	1180.40	12	1168.4	123.0	1057.4	SH/SS	NA	NA
G-033750	2619965.44	504947.20	1160.40	19	1141.4	113.6	1046.9	SH/SS	NA	NA

Table 2-2
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Boring Name	Easting (NAD 83)	Northing (NAD 83)	Ground Surface Elev. (ft NAVD 88)	Thickness of Loess or Overbank Fines (ft)	Bottom Elev. of Loess or Overbank Fines (ft NAVD 88)	Top of Omadi Depth (ft bgs)	Top of Omadi Elevation (ft NAVD 88)	First Encountered Bedrock Type	Top of Pennsylvanian (ft bgs)	Pennsylvanian Bedrock Elevation (ft NAVD 88)
G-033751	2605844.55	500782.59	1160.40	18	1142.4	121.4	1039.1	SH/SS	NA	NA
G-033752	2626343.31	505454.68	1158.70	12	1146.7	95.7	1063.1	SS/SH	NA	NA
G-033753	2613379.01	506052.58	1170.40	18	1152.4	102	1068.4	SH/SS	NA	NA
G-033754	2627929.44	506174.88	1150.40	16	1134.4	68.0	1082.4	SS	169	981.4
G-035207	2602747.33	533823.04	1210.44	18	1192.4	NA	NA	NA	NA	NA
G-035237	2603499.16	518054.60	1190.40	19	1171.4	116.6	1073.9	SS	NA	NA
G-035273	2595860.81	509939.73	1179.40	19	1160.4	122.7	1056.7	SS	NA	NA
G-035461	2663380.18	494451.54	1119.72	14	1105.7	NA	NA	NA	NA	NA
G-035976	2608882.60	523412.00	1196.70	20	1176.7	129.2	1067.6	SS	NA	NA
G-036098	2629416.12	502905.35	1140.40	16	1124.4	94.0	1046.4	SH	NA	NA
G-036211	2615973.87	510693.52	1170.50	18	1152.5	105	1065.9	SS/SH	NA	NA
G-036213	2628061.43	502884.05	1141.70	17	1124.7	94.9	1046.8	SS/SH	NA	NA
G-036214	2618122.65	499787.71	1160.40	17	1143.4	113.2	1047.3	SS/SH	NA	NA
G-037636	2611046.64	530993.22	1206.78	18.1	1188.7	NA	NA	NA	NA	NA
G-037637	2598547.22	509986.60	1178.98	17	1162.0	NA	NA	NA	NA	NA
G-037681	2597429.90	528395.98	1205.93	17	1188.9	NA	NA	NA	NA	NA
G-037707	2600800.75	515355.34	1185.34	19	1166.3	NA	NA	NA	NA	NA
G-037709	2600719.09	516647.25	1187.50	17	1170.5	NA	NA	NA	NA	NA
G-037709	2600750.11	516588.35	1187.50	13	1174.5	117	1070.9	SS/SH	NA	NA
G-037984	2596927.10	504903.15	1167.40	24	1143.4	103.3	1064.1	SS	NA	NA
G-039551	2586293.51	552666.07	1232.10	18	1214.1	NA	NA	NA	NA	NA
G-040328	2590041.50	517726.29	1181.71	15	1166.7	NA	NA	NA	NA	NA
G-040351	2608787.32	518096.33	1188.80	18	1170.8	128.5	1060.3	SH/SS	NA	NA
G-041786	2658404.46	501520.11	1087.30	14	1073.3	36.7	1050.6	SS	NA	NA
G-042325	2613567.34	517457.86	1182.20	18	1164.2	119.0	1063.3	NA	NA	NA
G-042325X	2614743.71	517723.70	1178.10	19	1159.1	114.9	1063.2	NA	NA	NA
G-044312	2627937.48	504594.86	1146.50	15	1131.5	96.3	1050.1	SS	NA	NA
G-046472	2629998.64	504936.47	1143.40	15	1128.4	96.2	1047.2	SS	NA	NA
G-046970	2615222.83	477870.27	1102.20	15	1087.2	65.3	1036.9	SS	NA	NA
G-047016	2639785.06	523855.79	1115.10	22	1093.1	37.5	1076.3	SS/SH	NA	NA
G-047077	2597761.66	511903.41	1180.47	18	1162.5	NA	NA	NA	NA	NA
G-047358	2638305.48	499293.87	1080.40	15	1065.4	50.3	1030.1	SS	NA	NA
G-047789	2639385.80	484836.22	1070.80	18	1052.8	NA	NA	NA	NA	NA
G-048014	2593461.07	554116.10	1252.06	22	1230.1	NA	NA	NA	NA	NA
G-048035	2618596.04	476047.37	1096.60	12	1084.6	64.0	1032.6	NA	NA	NA
G-048064	2593464.85	552796.62	1244.58	22	1222.6	NA	NA	NA	NA	NA
G-048065	2593464.85	552796.62	1244.58	20	1224.6	NA	NA	NA	NA	NA
G-048297	2630379.95	510943.12	1158.50	21	1137.5	119.0	1039.5	SS	NA	NA
G-048312	2605586.17	516107.67	1187.60	23	1164.6	128.7	1058.8	SS	NA	NA
G-049353	2663534.53	475317.53	1069.40	34	1035.4	57.0	1012.4	SS	82	987.4
G-049439	2632495.39	509006.54	1154.90	25	1129.9	116.4	1038.5	SS	NA	NA
G-049891	2629190.10	537368.21	1207.70	64	1143.7	144.6	1063.1	SS	NA	NA
G-050151	2657610.02	504779.32	1090.40	5	1085.4	NA	NA	NA	NA	NA
G-050177	2641513.55	481601.55	1070.35	20	1050.3	NA	NA	NA	NA	NA
G-050878	2660583.77	530339.32	1102.40	5	1097.4	43.2	1059.2	SS	NA	NA
G-050879	2655264.24	527177.34	1106.40	6	1100.4	NA	NA	NA	NA	NA
G-050988	2661467.26	552294.47	1122.17	12	1110.2	NA	NA	NA	NA	NA
G-051683	2626817.52	545846.88	1187.90	35	1152.9	80.4	1107.5	SS	NA	NA
G-051685	2623868.37	492824.33	1140.40	16	1124.4	96.9	1043.5	SS	NA	NA
G-051762	2589200.79	528683.40	1192.50	16	1176.5	NA	NA	NA	NA	NA
G-051786	2625896.50	492252.06	1140.40	15	1125.4	94.2	1046.2	SS	NA	NA
G-051787	2624230.42	482238.13	1134.80	12	1122.8	104.8	1030.1	SH/SS	NA	NA
G-051833	2664662.60	494552.30	1141.40	40	1101.4	145.0	996.4	SS	NA	NA
G-051860	2631579.06	481916.72	1127.90	10	1117.9	98.6	1029.3	SS	NA	NA
G-051927	2611950.23	526043.14	1190.63	16	1174.6	NA	NA	NA	NA	NA
G-052189	2605250.80	539160.21	1243.99	23	1221.0	NA	NA	NA	NA	NA
G-052390	2592955.51	548170.94	1230.51	16	1214.5	NA	NA	NA	NA	NA
G-052415	2661759.52	470642.20	1061.53	14.4	1047.1	67.0	994.5	SH	NA	NA
G-052786	2651936.14	483456.38	1067.80	5	1062.8	37.6	1030.3	SH	NA	NA
G-053077	2629633.70	481169.38	1130.40	21	1109.3	100.9	1029.4	SS	NA	NA
G-053078	2618627.04	523015.74	1187.40	30	1157.4	119.0	1068.4	SS	NA	NA

Table 2-2
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Boring Name	Easting (NAD 83)	Northing (NAD 83)	Ground Surface Elev. (ft NAVD 88)	Thickness of Loess or Overbank Fines (ft)	Bottom Elev. of Loess or Overbank Fines (ft NAVD 88)	Top of Omadi Depth (ft bgs)	Top of Omadi Elevation (ft NAVD 88)	First Encountered Bedrock Type	Top of Pennsylvanian (ft bgs)	Pennsylvanian Bedrock Elevation (ft NAVD 88)
G-053202	2585803.37	544519.97	1224.16	26	1198.2	NA	NA	NA	NA	NA
G-053273	2596059.83	522439.32	1196.90	16	1180.9	123.9	1073.0	SS	NA	NA
G-053429	2598336.00	541604.09	1220.50	19	1201.5	122.2	1098.3	SS	NA	NA
G-053470	2590009.34	507833.04	1147.50	19	1128.5	95.0	1052.5	SS	NA	NA
G-053471	2596781.33	509910.03	1179.82	16	1163.8	NA	NA	NA	NA	NA
G-053628	2635178.89	457916.42	1070.26	15	1055.3	NA	NA	NA	NA	NA
G-053629	2638289.83	462980.82	1085.60	19	1066.6	NA	NA	Limestone	95	990.6
G-053630	2635395.12	501244.47	1083.50	16	1067.5	42.1	1041.3	SH/SS	NA	NA
G-053658	2633230.51	490577.44	1116.80	17	1099.8	83.8	1033.0	SH/SS	NA	NA
G-053659	2591683.05	544010.47	1223.58	15	1208.6	NA	NA	NA	NA	NA
G-053764	2592943.73	505359.31	1171.24	15	1156.2	NA	NA	NA	NA	NA
G-053801	2633419.20	485275.89	1129.27	15	1114.3	NA	NA	NA	NA	NA
G-054293	2652941.81	549534.27	1125.50	11	1114.5	76.0	1049.5	SS	NA	NA
G-054297	2643724.79	547822.74	1130.46	13	1117.5	NA	NA	NA	NA	NA
G-054356	2588338.77	548565.36	1229.64	17	1212.6	NA	NA	NA	NA	NA
G-054568	2665058.21	546181.30	1111.76	18	1093.8	NA	NA	NA	NA	NA
G-054654	2611239.70	495610.60	1160.44	13	1147.4	NA	NA	NA	NA	NA
G-054655	2620045.68	507873.19	1170.40	12	1158.4	123.0	1047.4	SS/SH	NA	NA
G-055915	2655022.08	472990.39	1060.35	13	1047.3	NA	NA	NA	NA	NA
G-056090	2596862.15	532933.87	1210.30	16	1194.3	112.6	1097.7	SH/SS	NA	NA
G-056450	2593525.99	548747.94	1230.51	25	1205.5	NA	NA	NA	NA	NA
G-056513	2660041.17	508906.91	1097.40	12	1085.4	54.2	1043.2	SS	NA	NA
G-056514	2659904.23	511554.07	1096.60	24	1072.6	56	1040.5	SS	NA	NA
G-056690	2589817.69	510466.42	1187.40	21	1166.3	109.0	1078.4	SS	NA	NA
G-056838	2664819.91	490597.92	1127.80	13	1114.8	144.9	983.0	SS/SH	NA	NA
G-057184	2616731.87	520942.25	1173.70	12	1161.7	100.9	1072.8	SH	NA	NA
G-057314	2608488.21	520361.38	1190.40	18	1172.4	118.2	1072.2	SS	NA	NA
G-057315	2603019.79	514751.39	1187.10	17	1170.1	111.9	1075.2	SS/SH	NA	NA
G-057497	2613898.94	479132.83	1098.00	22	1076.0	66.2	1031.8	SH/SS	NA	NA
G-057498	2630731.82	486524.07	1131.70	15	1116.7	96.2	1035.4	SS	NA	NA
G-057632	2608559.24	543861.57	1312.30	10	1302.3	218.6	1093.7	SH/SS	NA	NA
G-058057	2657858.14	528629.21	1102.41	10	1092.4	NA	NA	NA	NA	NA
G-058058	2657816.79	529947.94	1106.09	10	1096.1	NA	NA	NA	NA	NA
G-058325	2613262.11	525422.78	1188.90	20	1168.9	122.5	1066.3	SS	NA	NA
G-058543	2596691.69	507872.67	1180.43	22	1158.4	95.0	1085.4	SS	NA	NA
G-058723	2597411.16	517229.41	1190.50	17	1173.5	112.8	1077.6	SS	NA	NA
G-058774	2626998.04	481045.04	1126.00	16	1110.0	93.3	1032.7	SS/SH	NA	NA
G-058820	2620523.59	476762.06	1090.30	20	1070.3	55.3	1035.0	SS	NA	NA
G-058958	2633279.62	521723.06	1191.10	36	1155.1	140.0	1051.1	SS/SH	NA	NA
G-058997	2600817.59	533085.83	1208.00	20	1188.0	129.6	1078.4	SS	NA	NA
G-059114	2594054.02	507950.82	1151.50	18	1133.5	96.1	1055.3	SS	NA	NA
G-059115	2596796.11	506557.25	1174.50	12	1162.5	132.9	1041.6	SH/SS	NA	NA
G-059358D	2641545.01	543766.01	1125.50	10	1115.5	67.9	1057.6	SS	NA	NA
G-059681	2616593.26	476599.48	1107.00	29	1078.0	70.6	1036.4	SS	NA	NA
G-060250	2633385.86	519681.22	1165.70	37.3	1128.4	139.0	1026.7	SS	NA	NA
G-060475	2609542.66	520085.09	1190.40	18	1172.4	123.0	1067.4	SS	NA	NA
G-060476X	2608223.54	520081.64	1191.40	17	1174.4	NA	NA	NA	NA	NA
G-060916	2594626.82	536214.84	1220.50	20	1200.5	138.9	1081.6	SS/SH	NA	NA
G-060987	2596159.38	515890.76	1190.40	18	1172.4	115.0	1075.4	SS	NA	NA
G-061009	2654791.26	478245.32	1067.40	6	1061.3	NA	NA	NA	NA	NA
G-061620	2658047.14	495572.46	1080.40	10	1070.4	NA	NA	NA	NA	NA
G-062103	2664844.22	550157.70	1129.47	9	1120.5	NA	NA	NA	NA	NA
G-062411	2586796.60	522137.46	1202.47	15	1187.5	NA	NA	NA	NA	NA
G-062530B	2622002.02	474004.64	1090.90	10	1080.9	44.5	1046.4	NA	NA	NA
G-062880	2656858.38	551072.14	1121.80	23	1098.8	89.7	1032.1	SH/Limestone	NA	NA
G-063202	2608142.94	483511.40	1108.30	18	1090.3	46.9	1061.5	SS	NA	NA
G-063312	2662751.20	544567.71	1110.50	29	1081.5	50.5	1060.0	SS	NA	NA
G-063973	2613172.50	544570.00	1282.48	80	1202.5	180.0	1102.5	SS	NA	NA
G-063973X	2613172.50	544570.00	1282.50	80	1202.5	180.0	1102.4	SS/SH	NA	NA
G-064175	2649834.01	532236.66	1115.95	7	1109.0	NA	NA	NA	NA	NA
G-064207	2612237.29	518747.52	1180.70	15	1165.7	117.7	1063.0	NA	NA	NA

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Boring Name	Easting (NAD 83)	Northing (NAD 83)	Ground Surface Elev. (ft NAVD 88)	Thickness of Loess or Overbank Fines (ft)	Bottom Elev. of Loess or Overbank Fines (ft NAVD 88)	Top of Omadi Depth (ft bgs)	Top of Omadi Elevation (ft NAVD 88)	First Encountered Bedrock Type	Top of Pennsylvanian (ft bgs)	Pennsylvanian Bedrock Elevation (ft NAVD 88)
G-064243	2656633.00	525900.41	1102.61	5	1097.6	NA	NA	NA	NA	NA
G-064906	2603229.28	510775.44	1180.50	20	1160.5	129.8	1050.7	SH	NA	NA
G-065589	2606725.03	521388.79	1191.80	18	1173.8	130.0	1061.8	SH	NA	NA
G-065681	2608858.44	520742.55	1190.40	15	1175.4	120.0	1070.5	SS/SH	NA	NA
G-065682	2606137.69	518093.14	1197.60	15	1182.6	134.6	1063.0	SS/SH	NA	NA
G-065683	2606422.58	512830.86	1180.40	20	1160.4	105.2	1075.2	SH/SS	NA	NA
G-065856	2596381.58	544833.15	1228.45	18	1210.5	NA	NA	NA	NA	NA
G-065871	2610763.21	522725.01	1194.40	20	1174.4	136.2	1058.2	SH/SS	NA	NA
G-065908	2656540.59	528562.61	1105.72	4	1101.7	NA	NA	NA	NA	NA
G-065978	2644102.08	539925.32	1121.98	8	1114.0	NA	NA	NA	NA	NA
G-065987	2598695.62	525023.62	1200.48	20	1180.5	NA	NA	NA	NA	NA
G-066364	2612993.72	530713.79	1212.50	26	1186.4	130.8	1081.7	SH/SS	NA	NA
G-066614	2646091.69	467269.56	1065.10	16	1049.0	NA	NA	Limestone	78.3	986.8
G-067472	2599552.47	505296.16	1170.50	16	1154.5	100.0	1070.5	SH/SS	NA	NA
G-067505	2589240.95	499678.05	1139.60	17	1122.6	56.0	1083.6	SH/SS	NA	NA
G-068383	2634969.59	513113.89	1142.60	19	1123.6	95.0	1047.6	SS	NA	NA
G-070210	2595398.27	517865.85	1190.50	20	1170.5	119.3	1071.1	SS	NA	NA
G-070398	2621507.69	523813.68	1221.10	30	1191.1	164.8	1056.3	SS	NA	NA
G-070581	2610561.33	479696.49	1136.50	17	1119.5	82	1054.7	NA	NA	NA
G-070615	2591394.10	517768.35	1161.60	16	1145.6	NA	NA	NA	NA	NA
G-071506	2591980.88	538754.11	1220.50	16	1204.5	NA	NA	NA	NA	NA
G-071585	2587226.93	528095.03	1207.50	15	1192.5	NA	NA	NA	NA	NA
G-072063	2586655.53	535880.93	1212.90	15	1197.9	50.0	1162.9	SS/SH	NA	NA
G-072122	2596136.58	524212.97	1200.50	20	1180.5	125.1	1075.3	SS	NA	NA
G-072122X	2596136.58	524212.97	1200.50	20	1180.5	125.0	1075.5	SS	NA	NA
G-072123	2592558.10	528251.25	1203.50	17	1186.5	151.0	1052.5	NA	NA	NA
G-072863	2599803.25	484547.70	1227.00	65	1162.0	104.2	1122.8	NA	NA	NA
G-072920	2626205.98	461153.26	1103.20	38	1065.2	53.1	1050.1	SS/Limestone	90	1013.2
G-073751	2599167.17	528472.60	1209.90	15	1194.9	132.0	1077.9	SH	NA	NA
G-073793	2665408.35	552155.19	1120.46	10	1110.5	NA	NA	NA	NA	NA
G-073894	2662990.66	472648.07	1067.56	15	1052.6	NA	NA	NA	NA	NA
G-074511	2599802.48	485900.46	1207.20	68	1139.2	91.3	1116.0	SS	NA	NA
G-074621	2660763.50	558114.66	1122.46	15	1107.5	NA	NA	NA	NA	NA
G-074622	2660499.99	554063.38	1120.46	13	1107.5	NA	NA	NA	NA	NA
G-076173	2607066.68	529965.85	1200.44	19	1181.4	NA	NA	NA	NA	NA
G-076174	2607007.05	529916.40	1200.46	15	1185.5	NA	NA	NA	NA	NA
G-076181	2607005.65	529964.46	1200.44	15	1185.4	NA	NA	NA	NA	NA
G-076183	2607002.16	530009.52	1200.44	18.5	1181.9	NA	NA	NA	NA	NA
G-076184	2606853.81	530057.44	1200.44	16.5	1183.9	NA	NA	NA	NA	NA
G-076185	2607012.94	529825.86	1200.59	12	1188.6	NA	NA	NA	NA	NA
G-076186	2606953.85	529248.94	1203.11	13.5	1189.6	NA	NA	NA	NA	NA
G-076188	2607046.33	529877.53	1200.45	15	1185.5	NA	NA	NA	NA	NA
G-076189	2607156.39	529702.29	1201.13	14.5	1186.6	NA	NA	NA	NA	NA
G-076190	2607366.81	529698.09	1199.47	18.5	1181.0	NA	NA	NA	NA	NA
G-076193	2607958.54	529473.57	1198.03	18	1180.0	NA	NA	NA	NA	NA
G-076194	2607112.57	529311.53	1201.34	15	1186.3	NA	NA	NA	NA	NA
G-076195	2607345.59	529272.90	1199.58	17	1182.6	NA	NA	NA	NA	NA
G-076196	2607616.43	529264.97	1196.44	15	1181.4	NA	NA	NA	NA	NA
G-076201	2607416.66	528960.10	1197.92	15	1182.9	NA	NA	NA	NA	NA
G-076589	2648402.25	472601.68	1063.00	5	1058.0	80.0	983.0	Limestone	78.9	984.1
G-078377	2632967.62	516292.66	1174.60	38	1136.6	148.0	1026.6	SS	NA	NA
G-079184	2657808.45	498845.61	1081.40	6	1075.4	NA	NA	NA	NA	NA
G-079185	2659232.76	498922.62	1084.40	9	1075.4	NA	NA	NA	NA	NA
G-080536	2653251.37	495307.27	1075.40	8	1067.4	NA	NA	NA	NA	NA
G-081125	2655608.12	467993.04	1055.37	55	1000.4	NA	NA	NA	NA	NA
G-081204	2605570.17	523544.43	1193.01	21	1172.0	NA	NA	NA	NA	NA
G-081447	2662563.30	511929.66	1200.00	46	1154.0	93.0	1031.9	SS/SH	NA	NA
G-081628	2662036.13	512197.93	1140.50	14	1126.5	NA	NA	NA	NA	NA
G-081652	2658832.39	491033.57	1073.40	10	1063.4	NA	NA	NA	NA	NA
G-081653	2660838.01	489060.75	1072.35	10	1062.3	NA	NA	NA	NA	NA
G-081660	2658249.50	548650.06	1120.46	20	1100.5	NA	NA	NA	NA	NA

Table 2-2
Elevation of Top of Bedrock and Base of Loess/Overbank Fines
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Boring Name	Easting (NAD 83)	Northing (NAD 83)	Ground Surface Elev. (ft NAVD 88)	Thickness of Loess or Overbank Fines (ft)	Bottom Elev. of Loess or Overbank Fines (ft NAVD 88)	Top of Omadi Depth (ft bgs)	Top of Omadi Elevation (ft NAVD 88)	First Encountered Bedrock Type	Top of Pennsylvanian (ft bgs)	Pennsylvanian Bedrock Elevation (ft NAVD 88)
G-081736	2640919.83	453093.07	1107.61	20	1087.6	NA	NA	NA	NA	NA
G-081826	2667315.27	486381.58	1185.00	59	1126.0	220.0	965.0	SS	NA	NA
G-081932	2640617.30	451715.82	1157.00	4	1153.0	71.0	1086.0	SH/SS	NA	NA
G-081992	2652123.93	546198.52	1123.74	23	1100.7	NA	NA	NA	NA	NA
G-082283	2645274.37	542186.40	1126.18	12	1114.2	NA	NA	NA	NA	NA
G-082391	2658967.28	488378.32	1072.35	13	1059.3	NA	NA	NA	NA	NA
G-082411A	2606874.84	529872.01	1200.44	21	1179.4	NA	NA	NA	NA	NA
G-082411C	2606960.57	529638.54	1200.72	19	1181.7	NA	NA	NA	NA	NA
G-082635	2649679.52	537334.85	1120.42	3.1	1117.3	NA	NA	NA	NA	NA
G-082948	2667309.73	533531.24	1255.40	83	1172.4	125.0	1130.4	SH/SS	NA	NA
G-082992	2665130.91	526902.36	1230.06	8	1222.1	39.0	1191.1	SS	NA	NA
G-083027	2656430.55	521467.26	1100.40	8	1092.4	NA	NA	NA	NA	NA
G-083073	2650960.27	552623.82	1130.44	5.3	1125.1	NA	NA	NA	NA	NA
G-083197	2662031.43	512082.88	1140.60	17	1123.6	NA	NA	NA	NA	NA
G-083550	2589448.81	544334.80	1224.52	15	1209.5	NA	NA	NA	NA	NA
G-083790	2651993.28	545863.01	1121.47	12	1109.5	NA	NA	NA	NA	NA
G-083866	2625208.56	508095.15	1161.20	20	1141.2	NA	NA	NA	NA	NA
G-084119	2667651.82	481528.97	1225.26	50	1175.3	NA	NA	NA	NA	NA
G-084290	2657840.52	518702.48	1213.30	97	1116.2	133.0	1080.3	SS/SH	275	938.3
G-084296	2667966.26	486587.23	1219.40	50	1169.3	228.0	991.4	SS/SH/Limestone	240	979.4
G-084434	2593795.06	476644.87	1293.70	125	1168.7	NA	NA	NA	NA	NA
G-084524	2611211.24	527288.49	1190.40	18	1172.4	NA	NA	NA	NA	NA
G-084655	2610568.00	529331.38	1199.60	25	1174.6	NA	NA	NA	NA	NA
G-084699	2626450.03	488539.42	1140.45	10	1130.5	NA	NA	NA	NA	NA
G-084775	2651211.41	547430.19	1127.06	24	1103.1	NA	NA	NA	NA	NA
G-084822	2650587.89	458357.70	1149.00	3	1146.0	125.0	1024.0	Limestone	125	1024.0
G-084915	2660783.81	511116.40	1099.40	24	1075.4	NA	NA	NA	NA	NA
G-084917	2634272.62	517886.01	1177.30	45	1132.3	NA	NA	NA	NA	NA
G-085604	2598696.17	475275.98	1239.70	30	1209.7	125.0	1114.7	SS	NA	NA
G-085814	2658009.04	496231.08	1080.40	11	1069.4	NA	NA	NA	NA	NA
G-085815	2657350.04	496198.16	1080.40	11	1069.4	NA	NA	NA	NA	NA
G-085835	2601523.07	476640.65	1181.00	57	1124.0	75.0	1106.0	SS	NA	NA
G-085892	2635148.02	536573.30	1212.70	42	1170.7	101.0	1111.7	SS/SH	NA	NA
G-085969	2668349.77	489614.13	1276.90	65	1211.9	320.0	956.9	SS/SH/Limestone	327	949.9
G-086054A	2644924.65	461963.30	1059.85	5	1055.2	NA	NA	NA	NA	NA
G-086054B	2645252.02	461426.26	1075.24	9	1066.0	NA	NA	NA	NA	NA
G-086054C	2645218.01	460609.66	1091.63	14	1078.1	NA	NA	NA	NA	NA
G-086247	2661789.72	549619.54	1120.46	20	1100.5	NA	NA	NA	NA	NA
G-086282	2650978.69	557536.54	1134.80	18.5	1116.3	NA	NA	NA	NA	NA
G-086558	2644340.34	533410.33	1112.39	5	1107.4	NA	NA	NA	NA	NA
G-087126	2616412.61	546469.99	1257.68	55	1202.7	NA	NA	NA	NA	NA
G-087127	2614927.91	546595.64	1223.25	60	1163.3	NA	NA	NA	NA	NA
G-087554	2586315.47	500924.49	1147.12	22	1125.1	NA	NA	NA	NA	NA
G-087555	2586283.70	501723.37	1148.68	14	1134.7	NA	NA	NA	NA	NA
G-087787	2666145.41	474178.27	1179.99	44.3	1135.7	96.1	1083.9	SH	NA	NA
G-087839	2665323.87	519626.34	1253.50	92	1161.5	143.0	1110.5	SS/SH	NA	NA
G-087929	2614696.32	511214.57	1174.40	22	1152.4	NA	NA	NA	NA	NA
G-088058	2657776.71	485695.53	1072.40	9	1063.3	53.7	1018.6	SS/SH	NA	NA
G-088059	2660413.60	485788.72	1072.40	11	1061.3	54.5	1017.9	SS/SH	NA	NA
G-088279	2599120.15	462891.20	1264.40	35	1229.4	70.0	1194.4	SS	NA	NA
G-088299	2657561.96	517149.13	1118.40	15.7	1102.7	20.2	1098.2	SS/SH	124.6	993.8
G-088403	2666512.95	537691.34	1110.50	8	1102.5	46.9	1063.6	SS/Limestone	56	1054.5
G-088662	2634931.94	504630.45	1090.40	25	1065.4	52.0	1038.4	NA	NA	NA
G-088993	2661652.28	507981.86	1139.90	20	1119.9	59.0	1080.9	SS/SH	NA	NA
G-089221	2599239.57	508963.19	1180.48	22	1158.5	NA	NA	NA	NA	NA
G-089241	2590478.92	545154.29	1238.06	15	1223.1	NA	NA	NA	NA	NA
G-089253	2668713.65	497778.97	1239.80	33	1206.8	156.0	1083.8	SH/SS/Limestone	270	969.8
G-089306	2663120.06	483261.70	1072.35	16	1056.3	NA	NA	NA	NA	NA

Table 2-2
Elevation of Top of Bedrock and Base of Loess/Overbank Fines
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Boring Name	Easting (NAD 83)	Northing (NAD 83)	Ground Surface Elev. (ft NAVD 88)	Thickness of Loess or Overbank Fines (ft)	Bottom Elev. of Loess or Overbank Fines (ft NAVD 88)	Top of Omadi Depth (ft bgs)	Top of Omadi Elevation (ft NAVD 88)	First Encountered Bedrock Type	Top of Pennsylvanian (ft bgs)	Pennsylvanian Bedrock Elevation (ft NAVD 88)
G-089357	2667009.74	484706.64	1161.90	68	1093.9	163.0	998.9	SH/SS	NA	NA
G-089499	2662203.82	526832.79	1101.40	14	1087.4	48.1	1053.3	SS/SH	NA	NA
G-089690	2669007.86	489149.66	1278.50	70	1208.5	NA	NA	Limestone	327.8	950.7
G-089816	2663985.01	520049.15	1243.40	68	1175.4	135.7	1107.7	SS/SH	NA	NA
G-089868	2643620.41	499225.08	1084.31	11	1073.3	NA	NA	NA	NA	NA
G-089876B	2652342.38	464397.58	1060.35	7	1053.4	NA	NA	NA	NA	NA
G-089876C	2652323.01	464385.82	1060.34	5	1055.3	NA	NA	NA	NA	NA
G-089876D	2652635.98	463333.85	1060.14	5	1055.1	NA	NA	NA	NA	NA
G-089876E	2652706.46	463279.61	1060.34	9	1051.3	NA	NA	NA	NA	NA
G-089876F	2652708.21	463283.70	1060.34	7.5	1052.8	NA	NA	NA	NA	NA
G-089876G	2652690.93	463196.92	1060.26	6	1054.3	NA	NA	NA	NA	NA
G-089876H	2652777.45	463206.80	1060.36	8.5	1051.9	NA	NA	NA	NA	NA
G-089876I	2652780.31	463210.93	1060.36	7.5	1052.9	NA	NA	NA	NA	NA
G-089876J	2652808.02	463149.77	1060.34	6	1054.3	NA	NA	NA	NA	NA
G-089876K	2652864.60	463182.43	1060.34	8	1052.3	NA	NA	NA	NA	NA
G-089876M	2652320.64	464389.73	1060.37	5	1055.4	NA	NA	NA	NA	NA
G-089876N	2652452.34	463673.85	1059.00	5.5	1053.5	NA	NA	NA	NA	NA
G-089876O	2652785.43	463044.90	1060.21	5	1055.2	NA	NA	NA	NA	NA
G-090203	2663089.08	511130.87	1212.10	35	1177.1	NA	NA	NA	NA	NA
G-090439	2647524.94	531058.05	1112.79	8	1104.8	NA	NA	NA	NA	NA
G-090524	2666311.50	537303.47	1110.40	8	1102.4	52	1058.8	SS/SH	NA	NA
G-090568	2664784.79	476811.73	1094.70	30	1064.7	NA	NA	NA	NA	NA
G-090605	2589745.45	526289.35	1193.50	17	1176.5	124.5	1069.0	SH	NA	NA
G-090605X	2589944.66	526396.87	1192.30	18	1174.3	123.7	1068.6	NA	NA	NA
G-090720	2629488.17	526884.95	1178.00	40	1138.0	NA	NA	NA	NA	NA
G-090726C	2654596.19	541733.32	1118.46	5.5	1113.0	NA	NA	NA	NA	NA
G-090726D	2656261.64	541823.84	1115.46	8	1107.5	NA	NA	NA	NA	NA
G-090726E	2656310.19	539743.82	1115.46	7.5	1108.0	NA	NA	NA	NA	NA
G-090726F	2654649.48	539513.50	1117.46	13	1104.5	NA	NA	NA	NA	NA
G-090726G	2656269.84	537851.02	1113.43	6	1107.4	NA	NA	NA	NA	NA
G-090726H	2654712.88	537816.55	1117.03	8	1109.0	NA	NA	NA	NA	NA
G-090726I	2657838.84	537932.05	1111.22	6	1105.2	NA	NA	NA	NA	NA
G-090820	2641194.13	468720.91	1061.98	28	1034.0	NA	NA	NA	NA	NA
G-091074	2663009.41	520209.12	1230.70	70	1160.7	129.9	1100.8	SS	NA	NA
G-091118	2666102.24	541937.05	1117.40	13	1104.4	43	1074.8	SS	NA	NA
G-091525	2601041.77	526743.45	1201.31	17	1184.3	NA	NA	NA	NA	NA
G-091614	2597943.59	523229.29	1200.00	16	1184.0	121	1079.0	SH	NA	NA
G-092071	2637986.69	531351.50	1170.20	15	1155.2	31.1	1139.1	SH/SS	NA	NA
G-092506	2663064.95	542699.25	1110.50	15	1095.5	NA	NA	NA	NA	NA
G-092572	2632805.98	541313.78	1241.30	72	1169.3	NA	NA	NA	NA	NA
G-092687	2668014.33	489222.30	1281.45	70	1211.4	NA	NA	NA	NA	NA
G-092765	2660445.37	549166.88	1120.46	13	1107.5	NA	NA	NA	NA	NA
G-092775	2662811.70	512757.36	1206.40	38	1168.4	89.0	1117.4	SS	NA	NA
G-093052	2644200.88	534027.48	1120.14	6	1114.1	NA	NA	NA	NA	NA
G-093177	2666351.28	537166.28	1110.40	10	1100.4	40	1070.8	SS	NA	NA
G-093301	2624905.28	467126.59	1157.20	25	1132.2	99.1	1058.1	SS	NA	NA
G-093417	2635346.50	532321.32	1205.50	58	1147.5	153.0	1052.5	SH/SS	NA	NA
G-093462	2668925.25	489995.56	1241.00	50	1191.0	316	925.4	SH	NA	NA
G-093498	2664869.98	478171.99	1108.80	49.5	1059.3	NA	NA	SH/Limestone	72	1036.8
G-093538	2646994.53	547135.06	1130.46	13	1117.5	NA	NA	NA	NA	NA
G-093587	2662851.73	505792.35	1179.40	25	1154.4	120	1059.8	SS/SH	175	1004.4
G-093612	2646376.44	453797.82	1233.96	10	1224.0	NA	NA	NA	NA	NA
G-093759	2663894.17	470897.55	1191.94	45	1146.9	50.0	1141.9	SH/SS	NA	NA
G-093915	2635331.68	478018.67	1117.16	19	1098.2	NA	NA	NA	NA	NA
G-093916	2635433.97	477973.36	1117.51	19	1098.5	NA	NA	NA	NA	NA
G-093944	2638121.02	533087.00	1152.50	30	1122.5	48	1104.9	SH/SS	NA	NA
G-094011	2592367.88	530855.16	1209.10	23	1186.1	145	1064.5	SH	NA	NA
G-094022	2659782.69	474253.18	1060.30	21	1039.3	44	1016.8	Limestone	43.9	1016.4
G-094377	2656921.99	478945.04	1060.35	15	1045.3	NA	NA	NA	NA	NA
G-094464	2634784.85	546477.52	1131.44	21	1110.4	NA	NA	NA	NA	NA
G-094500	2665854.98	468864.81	1225.40	63	1162.4	99	1126.4	SS/SH	146	1079.4

Table 2-2
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Boring Name	Easting (NAD 83)	Northing (NAD 83)	Ground Surface Elev. (ft NAVD 88)	Thickness of Loess or Overbank Fines (ft)	Bottom Elev. of Loess or Overbank Fines (ft NAVD 88)	Top of Omadi Depth (ft bgs)	Top of Omadi Elevation (ft NAVD 88)	First Encountered Bedrock Type	Top of Pennsylvanian (ft bgs)	Pennsylvanian Bedrock Elevation (ft NAVD 88)
G-094585	2661238.02	497689.93	1086.37	19	1067.4	NA	NA	NA	NA	NA
G-094600	2663759.02	516613.09	1262.50	75	1187.5	160	1102.9	SH/SS	NA	NA
G-094632	2593543.44	471548.49	1241.60	45	1196.6	NA	NA	NA	NA	NA
G-094642	2654577.75	532011.46	1110.40	7	1103.4	NA	NA	NA	NA	NA
G-095065	2669095.59	489830.84	1244.50	65	1179.5	322	922.9	Limestone	322	922.5
G-095212	2668373.06	481695.00	1255.84	35	1220.8	NA	NA	NA	NA	NA
G-095489	2621261.07	554859.24	1293.32	45	1248.3	NA	NA	NA	NA	NA
G-095562	2634642.91	507819.57	1102.70	40	1062.7	67.0	1035.7	SS	NA	NA
G-095729	2664989.02	518617.32	1237.40	76	1161.4	76.0	1161.4	SS/SH	NA	NA
G-095825A	2652606.28	463279.36	1059.84	6.5	1053.3	NA	NA	NA	NA	NA
G-095825B	2652614.80	463247.64	1059.79	6	1053.8	NA	NA	NA	NA	NA
G-095862	2666997.85	530794.68	1273.83	89	1184.8	NA	NA	NA	NA	NA
G-096067	2662778.40	498575.66	1090.40	20	1070.4	NA	NA	NA	NA	NA
G-096225	2666723.28	491277.13	1262.43	55	1207.4	NA	NA	Limestone	285	977.4
G-096373	2585883.61	511097.02	1170.86	12	1158.9	NA	NA	NA	NA	NA
G-096401	2642654.75	453904.21	1170.70	6	1164.7	NA	NA	NA	NA	NA
G-096433	2599850.67	538963.63	1213.50	17	1196.5	121.4	1092.0	SH	NA	NA
G-096582	2604918.30	506540.49	1173.60	16	1157.6	133.6	1040.0	SH	NA	NA
G-096584	2609425.47	507511.90	1171.10	15	1156.1	110.0	1060.0	SH/SS	NA	NA
G-096588	2613313.38	510348.63	1178.10	25	1153.1	109.8	1068.3	NA	NA	NA
G-096590	2621694.75	501434.23	1156.80	10	1146.8	105.2	1051.7	SS	NA	NA
G-096593	2611337.35	494197.24	1142.30	16	1126.3	119.2	1023.2	SS	NA	NA
G-096904	2627303.92	521421.63	1232.20	35	1197.2	198.3	1033.9	SS	NA	NA
G-096933	2608645.02	520266.50	1190.20	13	1177.2	116.0	1074.2	SS	NA	NA
G-097059	2633958.18	506380.10	1110.00	10	1100.0	NA	NA	NA	NA	NA
G-097207	2591407.07	524631.96	1177.30	14	1163.3	NA	NA	NA	NA	NA
G-097299	2593716.08	467752.60	1270.60	18	1252.6	75	1196.0	SS	NA	NA
G-097771	2634826.26	504785.71	1090.40	25	1065.4	65.0	1025.4	SS	NA	NA
G-098488	2607359.44	522562.19	1196.44	18	1178.4	NA	NA	NA	NA	NA
G-098489	2618650.02	493174.60	1150.44	17	1133.4	NA	NA	NA	NA	NA
G-098490	2623184.88	493275.84	1143.03	12	1131.0	NA	NA	NA	NA	NA
G-098491	2626758.00	493346.43	1144.73	12	1132.7	NA	NA	NA	NA	NA
G-098592	2640901.42	483829.54	1070.88	20	1050.9	NA	NA	NA	NA	NA
G-099245	2638624.89	529151.18	1120.30	27	1093.3	NA	NA	NA	NA	NA
G-099462	2604342.44	525180.96	1200.44	15	1185.4	NA	NA	NA	NA	NA
G-099950	2667172.31	487573.05	1197.00	35	1162.0	NA	NA	Limestone	237	960.0
G-100078	2638605.43	529450.40	1120.70	20	1100.7	NA	NA	NA	NA	NA
G-100441	2658928.36	552947.34	1128.20	20	1108.2	NA	NA	NA	NA	NA
G-100517	2588174.56	541341.36	1214.70	15	1199.7	NA	NA	NA	NA	NA
G-100704	2639554.67	515230.35	1100.40	15	1085.4	58.6	1041.8	SH	NA	NA
G-100706	2643623.90	494234.70	1080.40	11	1069.4	87	993.8	SS	NA	NA
G-100729	2622410.03	551070.16	1301.65	40	1261.6	NA	NA	NA	NA	NA
G-100754	2656220.41	526465.36	1104.40	13	1091.4	NA	NA	NA	NA	NA
G-100841	2633769.55	515375.75	1143.16	42	1101.2	NA	NA	NA	NA	NA
G-101231	2642751.29	453322.42	1109.60	14	1095.6	26.2	1083.4	SS/SH/Limestone	97	1012.6
G-101457	2669123.47	481051.85	1254.30	70	1184.3	NA	NA	Limestone	252.3	1002.0
G-101460	2635292.29	481943.68	1098.50	25	1073.5	100	998.9	SS/SH	NA	NA
G-101556	2622307.96	509882.88	1168.66	17	1151.7	112.0	1056.7	SS/SH	NA	NA
G-101602	2629373.79	509380.67	1155.80	25	1130.8	115.0	1040.8	SS	NA	NA
G-101822A	2650858.52	522395.56	1103.40	12	1091.4	98.2	1005.2	SS/SH	NA	NA
G-101822B	2650858.73	522390.47	1103.39	12	1091.4	NA	NA	NA	NA	NA
G-101822C	2650859.21	522385.75	1103.39	12	1091.4	NA	NA	NA	NA	NA
G-102451	2650941.15	484651.46	1070.40	6	1064.3	70	1000.7	SS/Limestone	75	995.4
G-102455	2663521.81	520114.15	1224.00	65	1159.0	118.5	1105.5	SS	NA	NA
G-102604	2658939.03	547943.92	1120.50	17	1103.5	90.2	1030.3	SH	NA	NA
G-102911	2667934.14	467058.25	1228.60	60	1168.6	104	1124.8	SH/SS/Limestone	NA	NA
G-103092	2664696.41	517573.31	1256.80	76	1180.8	125	1132.2	SS/SH	NA	NA
G-103207	2642471.17	502745.36	1088.40	22	1066.3	62.1	1026.3	SS	NA	NA
G-103856	2646410.76	457425.22	1194.70	28	1166.7	80.1	1114.7	SS/Limestone	153	1041.7

Table 2-2
Elevation of Top of Bedrock and Base of Loess/Overbank Fines
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Former NOP, Mead, Nebraska

Boring Name	Easting (NAD 83)	Northing (NAD 83)	Ground Surface Elev. (ft NAVD 88)	Thickness of Loess or Overbank Fines (ft)	Bottom Elev. of Loess or Overbank Fines (ft NAVD 88)	Top of Omadi Depth (ft bgs)	Top of Omadi Elevation (ft NAVD 88)	First Encountered Bedrock Type	Top of Pennsylvanian (ft bgs)	Pennsylvanian Bedrock Elevation (ft NAVD 88)
G-104085	2586001.90	512519.39	1192.30	18	1174.3	NA	NA	NA	NA	NA
G-104810	2661498.06	525608.08	1101.8	5	1096.4	37	1064.8	SS	NA	NA
G-105029	2643276.95	499181.43	1080.90	16	1064.9	64.4	1016.5	SS	NA	NA
G-105055	2632112.92	542680.00	1220.13	60	1160.1	NA	NA	NA	NA	NA
G-105056	2632061.39	542708.48	1223.38	60	1163.4	NA	NA	NA	NA	NA
G-105158	2646034.32	455132.99	1219.60	28	1191.6	50.0	1169.6	SS/SH/Limestone	133	1086.6
G-105159	2642968.13	453405.55	1109.69	24	1085.9	55.0	1055.0	SH/SS	NA	NA
G-105161	2631663.22	540814.72	1190.50	42	1148.5	106	1084.9	SS/SH	NA	NA
G-105269	2651134.54	547627.07	1129.40	32	1097.4	99	1030.8	SH	NA	NA
G-105544	2667361.77	510430.23	1249.50	75	1174.5	200.3	1049.2	SH/SS	NA	NA
G-105692	2635111.42	544735.45	1130.49	13	1117.5	NA	NA	NA	NA	NA
G-105776	2589912.28	484135.72	1262.42	25	1237.4	95.8	1107.4	SS	NA	NA
G-105802	2622725.02	505249.59	1162.40	14	1148.4	118.5	1043.9	SS/SH	NA	NA
G-105896	2640455.42	488890.60	1080.40	20	1060.3	86.5	993.9	SS/SH	135	945.4
G-105898	2640691.71	483550.58	1071.40	19	1052.4	NA	NA	Limestone	98	973.4
G-105902	2641208.48	472922.36	1063.90	22	1041.9	52	1012.3	SS/Limestone	54	1009.9
G-105906	2641545.34	467809.69	1062.74	28	1034.7	NA	NA	NA	NA	NA
G-105910	2653200.86	465471.63	1069.70	10	1059.7	NA	NA	Limestone	56	1013.7
G-105912	2655933.49	464937.59	1058.70	10	1048.7	NA	NA	Limestone	86	972.7
G-105923	2620367.93	531322.74	1265.00	45	1220.0	201.4	1063.6	SS	NA	NA
G-105933	2641165.39	484640.85	1070.49	20	1050.5	NA	NA	NA	NA	NA
G-105953	2637883.29	467587.13	1070.90	12	1058.9	NA	NA	Limestone	75	995.9
G-106148	2637011.20	532214.67	1230.00	45	1185.0	NA	NA	NA	NA	NA
G-106260	2632992.79	540635.48	1239.80	75	1164.8	197	1043.2	SS	NA	NA
G-106605	2605285.38	523629.83	1194.16	14	1180.2	NA	NA	NA	NA	NA
G-106702	2649996.78	555551.18	1131.32	25	1106.3	NA	NA	NA	NA	NA
G-106887	2668363.91	482283.77	1237.37	20	1217.4	NA	NA	NA	NA	NA
G-107100	2657444.39	496157.71	1080.40	14	1066.4	NA	NA	NA	NA	NA
G-107189	2628831.05	515020.03	1200.15	33	1167.2	NA	NA	NA	NA	NA
G-107303	2666421.01	503311.64	1197.20	50	1147.2	128	1069.6	SS/SH	NA	NA
G-107434	2645380.18	504893.65	1090.40	5	1085.4	NA	NA	NA	NA	NA
G-107795	2662912.06	518951.87	1167.80	64.7	1103.0	162.0	1005.8	NA	NA	NA
G-107804	2667270.37	514764.81	1286.60	74	1212.6	195	1092.0	SH/SS	NA	NA
G-107901	2666374.10	497295.14	1210.50	95	1115.5	203	1007.9	SS	NA	NA
G-108002	2666770.19	524507.08	1239.30	50	1189.3	132	1107.7	SS/SH	227	1012.3
G-108016	2665889.91	495924.95	1184.20	73	1111.2	182	1002.6	SS	NA	NA
G-108472	2603451.68	524381.49	1200.44	24	1176.4	NA	NA	NA	NA	NA
G-108620A	2640842.68	460420.05	1095.17	17	1078.2	NA	NA	NA	NA	NA
G-108620B	2640873.01	460401.27	1095.13	14.5	1080.6	NA	NA	NA	NA	NA
G-108620C	2640824.11	460369.32	1095.11	17	1078.1	NA	NA	NA	NA	NA
G-109003	2639439.93	494276.27	1080.40	10	1070.4	NA	NA	NA	NA	NA
G-109009	2605250.44	523439.58	1193.45	15	1178.5	NA	NA	NA	NA	NA
G-109088	2638852.93	504527.54	1070.42	15	1055.4	NA	NA	NA	NA	NA
G-109089	2638880.97	504548.77	1070.40	15	1055.4	NA	NA	NA	NA	NA
G-109248	2643538.61	498831.91	1081.43	10	1071.4	NA	NA	NA	NA	NA
G-109287	2634768.61	518456.88	1148.10	25	1123.1	123.5	1024.6	SS	NA	NA
G-109356	2631741.13	517744.55	1215.55	40	1175.6	120.0	1095.5	SS	NA	NA
G-109448	2608890.59	525971.08	1190.40	20	1170.4	98	1092.8	NA	NA	NA
G-109464E	2659604.55	458812.45	1050.35	0.5	1049.8	NA	NA	NA	NA	NA
G-109464K	2655552.98	465071.58	1059.40	10	1049.4	NA	NA	NA	NA	NA
G-109464L	2655802.23	464481.75	1057.40	10	1047.4	NA	NA	NA	NA	NA
G-109464M	2655857.14	464359.05	1056.80	8	1048.8	NA	NA	NA	NA	NA
G-109464N	2655895.84	464635.95	1051.60	10	1041.6	NA	NA	NA	NA	NA
G-109504	2663737.18	509417.17	1262.30	78	1184.3	214.9	1047.5	SH/SS	NA	NA
G-110126	2667300.86	490459.51	1249.30	50	1199.3	294	955.7	SH	NA	NA
G-110149	2643570.92	535351.59	1120.40	10	1110.4	67.4	1053.0	SH	NA	NA
G-110225	2656443.46	492830.13	1075.56	7	1068.6	NA	NA	NA	NA	NA
G-110548	2643845.16	475800.73	1068.46	15	1053.5	NA	NA	NA	NA	NA
G-111009	2638003.89	514999.78	1111.80	28	1083.8	85.8	1026.0	SS/SH	NA	NA
G-111534	2629844.37	499439.46	1135.50	15	1120.5	91.0	1044.5	SS	NA	NA

Table 2-2
Elevation of Top of Bedrock and Base of Loess/Overbank Fines
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Boring Name	Easting (NAD 83)	Northing (NAD 83)	Ground Surface Elev. (ft NAVD 88)	Thickness of Loess or Overbank Fines (ft)	Bottom Elev. of Loess or Overbank Fines (ft NAVD 88)	Top of Omadi Depth (ft bgs)	Top of Omadi Elevation (ft NAVD 88)	First Encountered Bedrock Type	Top of Pennsylvanian (ft bgs)	Pennsylvanian Bedrock Elevation (ft NAVD 88)
G-111654	2662705.60	510715.17	1149.00	8	1141.0	120	1029.4	SS/SH	NA	NA
G-111826	2626287.61	555013.24	1191.69	15	1176.7	NA	NA	NA	NA	NA
G-111906	2606672.10	526507.40	1200.44	15	1185.4	NA	NA	NA	NA	NA
G-111907	2606600.60	526526.36	1200.44	15	1185.4	NA	NA	NA	NA	NA
G-111937	2646427.60	553371.47	1133.46	22	1111.5	NA	NA	NA	NA	NA
G-112045	2593197.94	486970.77	1217.00	38	1179.0	81	1136.4	SH/SS	NA	NA
G-112285A	2606623.66	512152.24	1180.44	18	1162.4	NA	NA	NA	NA	NA
G-112285B	2606583.75	512246.49	1180.44	18	1162.4	NA	NA	NA	NA	NA
G-112285C	2606584.43	512046.75	1180.44	18	1162.4	NA	NA	NA	NA	NA
G-112438	2597988.38	520526.22	1190.50	20	1170.5	120.5	1069.9	SS	NA	NA
G-112950	2643532.00	531729.13	1120.40	12	1108.4	58	1062.8	SH	NA	NA
G-113122	2666722.44	466722.73	1211.10	55	1156.1	103	1108.6	SS/SH	149.6	1061.5
G-113706	2665211.86	507275.75	1256.70	88	1168.6	191.7	1065.0	SH/SS	NA	NA
G1-14	2604789.88	522888.56	1197.06	17.5	1179.6	NA	NA	NA	NA	NA
G-114279	2665985.56	474567.89	1182.90	57	1125.9	76.0	1106.9	SH/SS	118	1064.9
G1-15	2605212.50	522700.67	1196.13	17	1179.1	NA	NA	NA	NA	NA
G-115119	2591136.14	537381.29	1219.52	18	1201.5	NA	NA	NA	NA	NA
G-115162	2638558.06	506130.54	1070.59	30	1040.6	NA	NA	NA	NA	NA
G-115212	2666131.64	496043.81	1200.90	81	1119.9	199	1002.3	SS	NA	NA
G-115367	2593796.59	530096.96	1210.47	20	1190.5	NA	NA	NA	NA	NA
G-116034	2656045.21	526215.02	1104.30	13	1091.3	56	1048.7	SH/SS	NA	NA
G-116094	2638537.62	529605.77	1120.40	26	1094.4	40	1080.8	SH	NA	NA
G-116108	2662286.84	491289.61	1076.55	25	1051.5	NA	NA	NA	NA	NA
G-116412	2663132.67	510599.09	1201.40	25	1176.4	NA	NA	NA	NA	NA
G-116437	2667193.04	506925.76	1217.50	38	1179.5	181	1036.9	SS/SH	243	974.5
G-116922B	2639748.89	491855.43	1080.39	17.5	1062.9	NA	NA	NA	NA	NA
G-116922C	2640074.04	491937.26	1080.39	16.5	1063.9	NA	NA	NA	NA	NA
G-116922D	2639856.77	491748.04	1080.38	16.5	1063.9	NA	NA	NA	NA	NA
G-116922E	2640128.71	491863.00	1080.39	20.5	1059.9	NA	NA	NA	NA	NA
G-116922F	2640105.38	491788.38	1080.39	20	1060.4	NA	NA	NA	NA	NA
G-116930	2656352.07	457850.45	1123.40	56	1067.4	62.8	1060.6	SS/SH	89	1034.4
G-117114	2665395.99	477581.66	1130.00	55	1075.0	NA	NA	Limestone/SH	62	1068.0
G-117225	2627639.62	548997.57	1243.14	85	1158.1	NA	NA	NA	NA	NA
G-117227	2640398.09	478401.04	1070.35	27	1043.3	NA	NA	NA	NA	NA
G-117496	2663757.11	492346.40	1132.87	51	1081.9	80.0	1052.9	SS/SH	NA	NA
G-117775	2621650.19	471889.36	1120.50	15	1105.5	59.6	1060.9	SS	NA	NA
G-117776	2599646.46	470283.98	1190.60	20	1170.6	NA	NA	NA	NA	NA
G-117985	2638290.83	531822.29	1139.60	16	1123.6	45.5	1094.2	SH/SS	NA	NA
G-118081	2667219.19	506320.26	1211.70	35	1176.6	190	1022.0	SH/SS	NA	NA
G-118091	2640932.95	485724.88	1073.34	27	1046.3	NA	NA	NA	NA	NA
G-119146	2663932.80	492000.52	1133.93	52	1081.9	NA	NA	NA	NA	NA
G-119147	2661813.55	505681.34	1208.50	30	1178.4	100.0	1108.5	SS/SH	NA	NA
G-119229	2651158.48	543809.97	1130.54	10	1120.5	NA	NA	NA	NA	NA
G-119231	2667038.81	512286.55	1260.40	80	1180.4	193	1067.4	SS/SH	250	1010.4
G-120070	2650379.71	542359.04	1123.00	13	1110.0	105	1018.4	SH/SS	NA	NA
G-120168	2638125.01	479257.57	1070.24	27	1043.2	NA	NA	NA	NA	NA
G-120369	2606366.60	485947.32	1121.10	35	1086.1	NA	NA	NA	NA	NA
G-121593	2652678.91	464885.21	1060.50	10	1050.5	NA	NA	NA	NA	NA
G-121796	2632693.70	475385.99	1119.50	20	1099.5	NA	NA	NA	NA	NA
G-121798	2633590.54	490613.29	1110.87	15	1095.9	NA	NA	NA	NA	NA
G-122118	2640451.07	495365.53	1080.40	14	1066.4	59.4	1021.0	SS	NA	NA
G-122122	2649368.01	482242.93	1070.40	16	1054.3	73	997.4	SH	NA	NA
G-122338	2664700.32	523934.28	1174.14	20	1154.1	53.8	1120.4	SS/SH	NA	NA
G-122568	2637761.76	529875.97	1180.00	54	1126.0	82	1098.4	SH/SS	NA	NA
G-122717	2653365.01	470382.92	1060.35	8	1052.3	NA	NA	NA	NA	NA
G-122799	2635001.05	531886.84	1206.20	60	1146.2	115.1	1091.1	SS	NA	NA
G-122977	2602432.54	539080.12	1217.80	20	1197.8	NA	NA	NA	NA	NA
G-123375	2639807.06	472037.93	1091.20	20	1071.2	75	1016.6	SS	NA	NA
G-123715	2647051.66	546977.39	1130.46	12	1118.5	NA	NA	NA	NA	NA
G1-24	2604191.65	522957.92	1201.93	4	1197.9	NA	NA	NA	NA	NA
G-124180	2657872.77	497613.26	1080.40	8	1072.4	NA	NA	NA	NA	NA

Table 2-2
Elevation of Top of Bedrock and Base of Loess/Overbank Fines
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Boring Name	Easting (NAD 83)	Northing (NAD 83)	Ground Surface Elev. (ft NAVD 88)	Thickness of Loess or Overbank Fines (ft)	Bottom Elev. of Loess or Overbank Fines (ft NAVD 88)	Top of Omadi Depth (ft bgs)	Top of Omadi Elevation (ft NAVD 88)	First Encountered Bedrock Type	Top of Pennsylvanian (ft bgs)	Pennsylvanian Bedrock Elevation (ft NAVD 88)
G-124271	2665372.23	483453.37	1121.14	40	1081.1	NA	NA	NA	NA	NA
G-124396	2648896.83	543107.18	1117.46	20	1097.5	NA	NA	NA	NA	NA
G-124398	2650075.32	542347.11	1124.05	21	1103.0	NA	NA	NA	NA	NA
G-124651	2647953.67	531116.26	1117.42	6	1111.4	NA	NA	NA	NA	NA
G-124901	2637540.70	515081.61	1137.00	15	1122.0	NA	NA	NA	NA	NA
G-125693	2648849.64	544218.14	1111.50	14	1097.5	106	1005.9	SH/SS	NA	NA
G-125697	2663173.06	504322.98	1192.00	66	1126.0	151	1041.4	SS/SH	194	998.0
G-125698	2666604.58	513483.07	1266.00	93	1173.0	213	1053.4	SH/SS	NA	NA
G-125812	2665985.97	504746.94	1236.40	53	1183.4	155	1081.8	SS/SH	NA	NA
G-125924	2637981.65	526897.03	1152.90	65	1087.9	NA	NA	NA	NA	NA
G-126119	2608131.54	533940.11	1200.40	20	1180.4	NA	NA	NA	NA	NA
G-126187A	2616150.11	499805.14	1160.40	25	1135.4	NA	NA	NA	NA	NA
G-126187B	2616067.17	502162.55	1162.10	25	1137.1	NA	NA	NA	NA	NA
G-126187C	2616076.87	502168.05	1162.10	25	1137.1	NA	NA	NA	NA	NA
G-126187D	2616086.84	502173.56	1162.10	25	1137.1	NA	NA	NA	NA	NA
G-126187E	2616083.86	502118.39	1161.50	25	1136.5	NA	NA	NA	NA	NA
G-126187F	2616103.73	502124.31	1161.50	25	1136.5	NA	NA	NA	NA	NA
G-126187G	2616113.43	502129.81	1161.60	25	1136.6	NA	NA	NA	NA	NA
G-126187H	2616142.07	502036.20	1161.40	25	1136.4	NA	NA	NA	NA	NA
G-126187I	2616152.03	502041.72	1161.50	25	1136.5	NA	NA	NA	NA	NA
G-126187J	2616161.73	502047.22	1161.50	25	1136.5	NA	NA	NA	NA	NA
G-126187K	2616278.34	501877.75	1161.30	25	1136.3	NA	NA	NA	NA	NA
G-126187L	2616040.79	502201.20	1162.60	25	1137.6	NA	NA	NA	NA	NA
G-126187M	2616060.18	502212.20	1162.80	25	1137.8	NA	NA	NA	NA	NA
G-126187N	2616050.49	502206.70	1162.70	25	1137.7	NA	NA	NA	NA	NA
G-126288	2637482.06	514674.08	1139.70	20	1119.7	NA	NA	NA	NA	NA
G-126644	2640634.88	497894.82	1081.20	16	1065.2	53.8	1027.3	/Limestone	70	1011.2
G1-27	2605356.11	521831.92	1196.09	15	1181.1	NA	NA	NA	NA	NA
G-127035	2637393.53	474771.20	1104.40	22	1082.4	94.3	1010.0	SH/SS	NA	NA
G-127071	2644877.95	468099.33	1063.50	23	1040.5	75	988.9	SH	NA	NA
G-127389	2632646.01	461814.43	1116.90	38	1078.9	99.7	1017.3	SS	NA	NA
G-127393	2636477.07	529519.28	1192.20	58	1134.2	108	1084.6	SH/SS	NA	NA
G-127394	2632950.35	540712.58	1238.09	71	1167.1	NA	NA	NA	NA	NA
G-127514	2647711.28	513383.81	1098.40	14	1084.4	93	1005.8	SH	NA	NA
G-127515	2647786.89	513387.02	1098.40	16	1082.4	94	1004.8	SH	NA	NA
G-127516	2648016.00	513396.73	1098.40	5	1093.4	93.6	1004.8	SS	NA	NA
G-127603	2664229.25	508216.77	1233.20	40	1193.2	180	1053.6	SS	NA	NA
G-127649	2647507.15	514590.39	1099.40	18	1081.4	NA	NA	Limestone	88	1011.4
G-127650	2647358.70	514482.83	1099.40	6	1093.4	NA	NA	Limestone	80	1019.4
G-127687	2638423.12	530511.36	1125.90	34	1091.9	37.6	1088.3	SH/SS	NA	NA
G-127699	2647582.75	514593.59	1099.40	17	1082.4	89	1010.8	Limestone/SH	89	1010.4
G-127725	2655873.25	470894.82	1060.30	10	1050.3	NA	NA	NA	NA	NA
G-127739	2646130.09	509165.85	1098.50	6	1092.4	93.7	1004.7	NA	NA	NA
G-127740	2646202.19	509270.16	1098.10	5	1093.1	93.5	1004.6	SH	NA	NA
G-127741	2647045.95	509203.59	1095.00	5	1090.0	93.6	1001.4	NA	NA	NA
G-128002	2665039.49	505415.04	1221.40	50	1171.4	171	1050.8	SS	NA	NA
G-128091	2648025.03	491524.02	1078.40	9	1069.4	99.0	979.4	SS/SH	NA	NA
G-128147	2641794.38	492172.37	1080.40	10	1070.4	NA	NA	NA	NA	NA
G-128171	2666240.19	513062.25	1262.50	92	1170.5	210	1052.9	SS/SH	NA	NA
G-128715	2664058.61	505069.99	1234.10	63	1171.1	165	1069.5	SS/SH	NA	NA
G-128779	2664289.51	496166.99	1149.30	60	1089.3	155	994.7	SH	NA	NA
G-129154	2668380.31	507787.24	1287.80	80	1207.8	248.9	1038.9	SS	NA	NA
G-129323A	2628147.84	485221.18	1136.46	15	1121.5	NA	NA	NA	NA	NA
G-129323B	2628211.72	485527.63	1138.58	14	1124.6	NA	NA	NA	NA	NA
G-129323C	2628126.87	485726.64	1133.04	14	1119.0	NA	NA	NA	NA	NA
G-129323D	2628292.37	485429.71	1140.29	14	1126.3	NA	NA	NA	NA	NA
G-129323E	2628131.06	485625.55	1135.22	14	1121.2	NA	NA	NA	NA	NA
G-129323F	2628135.26	485524.45	1136.38	12	1124.4	NA	NA	NA	NA	NA
G-129442	2623011.64	522375.20	1224.70	15	1209.7	157.4	1067.3	SS	NA	NA
G-129537D	2587908.12	462929.52	1209.94	9.4	1200.5	NA	NA	NA	NA	NA
G-129948	2653212.97	544565.93	1120.46	16	1104.5	NA	NA	NA	NA	NA

Table 2-2
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Boring Name	Easting (NAD 83)	Northing (NAD 83)	Ground Surface Elev. (ft NAVD 88)	Thickness of Loess or Overbank Fines (ft)	Bottom Elev. of Loess or Overbank Fines (ft NAVD 88)	Top of Omadi Depth (ft bgs)	Top of Omadi Elevation (ft NAVD 88)	First Encountered Bedrock Type	Top of Pennsylvanian (ft bgs)	Pennsylvanian Bedrock Elevation (ft NAVD 88)
G-130357	2662456.87	503178.20	1113.50	18	1095.5	70	1043.9	SS/SH	NA	NA
G-130942E	2642392.81	460270.10	1070.50	9	1061.5	NA	NA	NA	NA	NA
G-130942H	2642524.10	460193.60	1070.40	20	1050.5	NA	NA	NA	NA	NA
G-130942I	2642502.67	460138.74	1070.30	20	1050.8	21.5	1048.8	NA	21.5	1048.8
G-131057	2619782.99	483762.59	1102.60	20	1082.6	NA	NA	NA	NA	NA
G-131161	2659674.99	514502.45	1100.40	18	1082.4	78.0	1022.0	SH	120	980.4
G-131162	2660120.21	514824.35	1100.20	8	1092.2	46	1054.2	SS/SH	102	998.2
G-131282A	2625587.68	478978.43	1124.24	21.5	1102.7	NA	NA	NA	NA	NA
G-131316	2605286.55	523876.59	1193.61	18	1175.6	NA	NA	NA	NA	NA
G-131386	2665628.85	505946.81	1230.30	63	1167.3	149	1081.3	SS/SH	244	986.3
G-131387	2662194.21	553700.80	1120.46	15	1105.5	93.0	1027.5	SH	NA	NA
G-132159	2663194.84	503816.55	1156.00	45	1111.0	150.0	1006.0	SS	161.9	994.1
G-132237	2639705.16	477241.24	1070.40	16	1054.3	NA	NA	NA	NA	NA
G-132238	2636845.72	476874.86	1109.87	20	1089.9	NA	NA	NA	NA	NA
G-132495	2668174.68	466460.27	1231.40	60	1171.4	112	1119.8	SS/SH	NA	NA
G-132687A	2659100.03	459674.59	1050.40	1	1049.3	NA	NA	Limestone	77.8	972.6
G-132687F	2661058.04	458657.38	1050.35	1.5	1048.8	NA	NA	NA	NA	NA
G-133109	2667940.18	507364.14	1275.76	96	1179.8	NA	NA	NA	NA	NA
G-133469	2647633.38	517027.21	1100.40	17	1083.4	91	1009.8	NA	NA	NA
G-133470	2648073.66	517449.95	1100.50	19	1081.5	91	1009.9	SS	NA	NA
G-133500	2647925.23	517342.38	1100.90	17	1083.9	93	1008.3	SS	NA	NA
G-133835	2661572.34	525520.25	1100.40	10	1090.4	50	1050.8	SS/SH	NA	NA
G-133956	2664076.01	504665.65	1223.80	75	1148.8	163	1061.2	SS	218	1005.8
G-133995	2656858.35	538526.62	1114.10	27	1087.1	45	1069.5	SS/SH	NA	NA
G-134158	2662311.80	533478.27	1110.40	27	1083.4	45	1065.8	SS/SH	NA	NA
G-134247	2638709.89	472598.49	1099.80	15	1084.8	NA	NA	NA	NA	NA
G1-35	2603907.67	522663.73	1202.78	23.5	1179.3	NA	NA	NA	NA	NA
G-135021	2666969.73	536893.93	1129.60	32	1097.6	58	1072.0	SS/SH	132	997.6
G-135038	2657630.60	508641.42	1090.99	10	1081.0	NA	NA	NA	NA	NA
G-135345	2584677.91	551472.04	1229.80	18	1211.8	133.0	1096.8	SS	NA	NA
G-135525	2586967.10	549679.80	1224.68	17	1207.7	NA	NA	NA	NA	NA
G-135565	2595221.66	494610.90	1156.91	14	1142.9	NA	NA	NA	NA	NA
G-135638	2659144.78	550025.15	1121.46	25	1096.5	NA	NA	NA	NA	NA
G-135639	2659149.12	549924.07	1121.46	25	1096.5	NA	NA	NA	NA	NA
G-135640	2659140.44	550126.24	1121.44	25	1096.4	NA	NA	NA	NA	NA
G-135845A	2612342.28	514007.48	1180.44	16	1164.4	NA	NA	NA	NA	NA
G-135845B	2612829.07	512579.33	1178.32	17	1161.3	NA	NA	NA	NA	NA
G-135845C	2612785.48	513083.86	1178.45	16	1162.5	NA	NA	NA	NA	NA
G-135892	2599345.20	496081.04	1119.50	15	1104.5	73.3	1046.2	SS/SH	NA	NA
G-135893	2588695.62	550650.02	1231.50	16	1215.5	NA	NA	NA	NA	NA
G-135895	2646668.35	498251.59	1081.40	20	1061.4	NA	NA	NA	NA	NA
G-135936A	2642244.57	460244.18	1071.18	8	1063.2	NA	NA	NA	NA	NA
G-135936B	2642241.72	460279.06	1071.72	11	1060.7	NA	NA	NA	NA	NA
G-135936C	2642211.07	460226.73	1071.62	11.5	1060.1	NA	NA	NA	NA	NA
G-136000	2635492.49	516515.79	1141.10	40	1101.0	123.7	1017.4	SH	NA	NA
G-136134	2585260.27	550195.04	1230.28	17	1213.3	NA	NA	NA	NA	NA
G-136275	2588800.22	516258.33	1191.40	17	1174.4	109.4	1082.0	SH	NA	NA
G-136279	2608826.59	516828.58	1189.90	18	1171.9	129.9	1059.9	SS	NA	NA
G-136373	2632852.72	539392.02	1241.10	50	1191.1	175	1066.5	SS/SH	238	1003.1
G-136409	2635905.06	495672.08	1086.60	19	1067.6	46.1	1040.5	NA	NA	NA
G-136421	2608726.64	516828.52	1190.40	20	1170.4	130.5	1059.9	SS	NA	NA
G-136422	2621505.64	497706.70	1151.60	20	1131.6	NA	NA	NA	NA	NA
G-136423	2625089.74	510731.06	1160.50	18	1142.5	86.4	1074.1	SS	NA	NA
G-136517	2631126.11	514814.38	1172.00	45	1127.0	138.5	1033.5	SS/SH	164	1008.0
G-136539	2665694.23	504430.54	1221.00	40	1181.0	157	1064.4	SS/SH	NA	NA
G1-37	2604372.91	522022.90	1204.63	16.5	1188.1	NA	NA	NA	NA	NA
G-137471	2664804.36	469959.83	1164.80	25	1139.8	54	1111.2	SS/SH	NA	NA
G-137569	2660472.66	554213.15	1120.46	5	1115.5	NA	NA	NA	NA	NA
G-137827	2664791.31	470263.08	1152.30	20	1132.3	49	1103.7	SS/SH	NA	NA
G-137968	2664713.56	541353.80	1120.45	29	1091.4	NA	NA	NA	NA	NA
G-138258	2636235.21	529810.99	1193.10	55	1138.1	106.9	1086.3	SS	NA	NA

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Boring Name	Easting (NAD 83)	Northing (NAD 83)	Ground Surface Elev. (ft NAVD 88)	Thickness of Loess or Overbank Fines (ft)	Bottom Elev. of Loess or Overbank Fines (ft NAVD 88)	Top of Omadi Depth (ft bgs)	Top of Omadi Elevation (ft NAVD 88)	First Encountered Bedrock Type	Top of Pennsylvanian (ft bgs)	Pennsylvanian Bedrock Elevation (ft NAVD 88)
G-138415	2665895.18	506869.74	1267.5	80	1187.1	179	1088.5	SH/SS	NA	NA
G-138488A	2642382.87	460230.68	1070.42	7	1063.4	NA	NA	NA	NA	NA
G-138488D	2642253.02	460266.41	1071.52	10	1061.5	NA	NA	NA	NA	NA
G-138924	2639972.44	502152.41	1076.40	23	1053.4	NA	NA	NA	NA	NA
G-138925	2595275.57	544636.66	1221.90	15	1206.9	133.2	1088.7	NA	NA	NA
G-139010	2666597.95	508318.89	1296.40	55	1241.4	234	1062.8	SH/SS	281.0	1015.40
G-139125	2654872.13	537385.74	1116.30	28	1088.3	105.0	1011.3	SS/SH	128.0	988.30
G-139162	2665772.15	506155.53	1238.40	73	1165.4	174	1064.8	SS/SH	244	994.4
G-139351	2669593.65	467330.71	1221.60	48	1173.6	NA	NA	NA	134	1087.6
G-139424	2636331.60	482136.61	1070.20	20	1050.2	60	1010.6	SS	NA	NA
G-139448	2633061.26	518134.64	1200	60	1140.0	NA	NA	NA	NA	NA
G-139933	2610561.33	479696.49	1136	17	1119.0	56	1080.0	SS/SH	NA	NA
G-140287A	2627539.30	508547.69	1149	8.5	1140.5	NA	NA	NA	NA	NA
G-140287O	2626786.33	504749.37	1148	15	1133.0	89	1059.0	SS	NA	NA
G-140758	2664483.95	495385.44	1115	35	1080.0	50	1065.0	SS	NA	NA
G-140862	2611211.15	530657.63	1210	15	1195.0	NA	NA	NA	NA	NA
G-140863	2619388.19	521051.53	1180	30	1150.0	150	1030.0	SS	NA	NA
G-140920	2637695.61	530177.00	1191	20	1171.0	NA	NA	NA	NA	NA
G-141331	2641216.62	505008.04	1085	5	1080.0	NA	NA	NA	NA	NA
G-141399	2663097.76	495214.41	1110	15	1095.0	NA	NA	NA	NA	NA
G-141403	2642303.33	478278.62	1070	17	1053.0	NA	NA	NA	NA	NA
G-143075	2640211.20	480661.57	1072	20	1052.0	NA	NA	NA	NA	NA
G-143417	2638143.22	531714.82	1155	15	1140.0	120	1035.0	SS	NA	NA
G-143517	2629921.74	507046.73	1120	10	1110.0	64	1056.0	SS/SH	NA	NA
G-144398	2634798.64	482591.81	1120	15	1105.0	NA	NA	NA	NA	NA
G-145118	2631356.88	520342.01	1210	52	1158.0	175	1035.0	SS	NA	NA
G-145119	2635720.32	504493.79	1089	13	1076.0	47	1042.0	SS	NA	NA
G-145120	2634218.39	514972.84	1140	45	1095.0	NA	NA	Limestone	113	1027.0
G-145121	2628523.08	525368.32	1208	20	1188.0	118	1090.0	SH	NA	NA
G-145122	2638506.71	507213.16	1070	12	1058.0	NA	NA	Limestone	51.0	1019.0
G-145123	2638426.50	510035.15	1085	11	1074.0	65	1020.0	SS/SH	NA	NA
G-145552	2637664.22	530378.22	1202	54	1148.0	84	1118.0	SH/SS	NA	NA
G-145553	2637668.47	530277.13	1195	56	1139.0	110	1085.0	SH/SS	NA	NA
G-146158	2610637.67	520347.78	1180	20	1160.0	120	1060.0	SS	NA	NA
G-146248C	2633848.36	509732.01	1140	40	1100.0	115	1025.0	SS	NA	NA
G-146931	2651208.82	485075.56	1070	4	1066.0	68	1002.0	SH/L	NA	NA
G-146939	2617133.75	479700.97	1090	15	1075.0	105	985.0	SS	NA	NA
G1-47	2604073.83	522023.30	1200.44	14.5	1185.9	NA	NA	NA	NA	NA
G-148185P	2611861.75	507608.28	1174	19	1155.0	NA	NA	NA	NA	NA
G-148398	2663917.65	490216.47	1087	30	1057.0	110	977.0	SH/L	NA	NA
G-148410	2657599.34	495950.86	1080	9	1071.0	51	1029.0	SH	NA	NA
G-148966	2623960.66	524923.82	1285	35	1250.0	210	1075.0	SS	NA	NA
G-149002	2624395.18	520265.38	1210	65	1145.0	170	1040.0	SS	NA	NA
G-149398	2657160.89	478969.34	1060	14	1046.0	NA	NA	Limestone	42.5	1017.5
G-149733	2638782.60	519407.24	1150	35	1115.0	100	1050.0	SH/SS	NA	NA
G-149922	2661647.84	522535.97	1215		1215.0	140	1075.0	SS/SH	NA	NA
G-150702	2630077.52	507863.34	1142	15	1127.0	130	1012.0	SS/SH	NA	NA
G-150823	2636767.54	529520.32	1180	60	1120.0	120	1060.0	SS	NA	NA
G-151041	2649273.44	489965.73	1080	0	1080.0	74	1006.0	SH/SS	NA	NA
G-152358	2632668.27	475444.68	1120	20	1100.0	NA	NA	NA	NA	NA
G-152423	2642253.40	495524.74	1080	20	1060.0	NA	NA	NA	NA	NA
G-153602	2634671.20	504875.22	1091	20	1071.0	50	1041.0	SS	NA	NA
G-153713	2605596.74	511717.50	1180	17	1163.0	114	1066.0	SH/SS	NA	NA
G-153902	2638302.19	528105.90	1152	17	1135.0	70	1082.0	SH/SS	NA	NA
G-154606	2649739.57	492264.05	1078	0	1078.0	104	974.0	SS	NA	NA
G-155268	2637442.41	528960.27	1175	55	1120.0	85	1090.0	SH/SS	NA	NA
G-155443	2660010.85	513806.95	1100	8	1092.0	66	1034.0	SH/SS	110.0	990.0
G-155951	2648713.27	493389.18	1079	0	1079.0	101	978.0	SS	NA	NA
G-156989	2658409.46	517434.71	1208	60	1148.0	120	1088.0	SH	235.0	973.0
G-157016	2638628.54	527806.01	1142	18	1124.0	58	1084.0	SH	NA	NA
G-157943	2656897.83	488355.98	1074	8	1066.0	53	1021.0	SS	NA	NA

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Boring Name	Easting (NAD 83)	Northing (NAD 83)	Ground Surface Elev. (ft NAVD 88)	Thickness of Loess or Overbank Fines (ft)	Bottom Elev. of Loess or Overbank Fines (ft NAVD 88)	Top of Omadi Depth (ft bgs)	Top of Omadi Elevation (ft NAVD 88)	First Encountered Bedrock Type	Top of Pennsylvanian (ft bgs)	Pennsylvanian Bedrock Elevation (ft NAVD 88)
G-158324	2652739.87	481494.94	1072	6	1066.0	59	1013.0	SS	NA	NA
G-159342	2649678.98	484484.03	1070	2	1068.0	60	1010.0	SS	78	992.0
G-159651	2637273.35	529490.91	1180	50	1130.0	98	1082.0	SH	NA	NA
G-159854	2614652.77	507651.59	1169	20	1149.0	117	1052.0	SH/SS	NA	NA
G-159905A	2607251.09	504331.85	1070	37	1033.0	NA	NA	NA	NA	NA
G-159905R	2607394.19	504388.30	1070	37	1033.0	NA	NA	NA	NA	NA
G-160012	2637634.28	470852.14	1080	2	1078.0	75	1005.0	SS	NA	NA
G-160055	2649383.90	490719.81	1080	0	1080.0	65	1015.0	SH/SS	NA	NA
G-160651	2656158.16	505366.16	1090	3	1087.0	52	1038.0	SS	NA	NA
G-160679	2636988.43	529721.99	1190	65	1125.0	106	1084.0	SS/SH	NA	NA
G-161181	2608083.60	491426.47	1110	12	1098.0	46	1064.0	SS/SH	NA	NA
G-162095	2631823.15	508025.18	1145	19	1126.0	101	1044.0	SS	138	1007.0
G-163267	2619295.69	512520.86	1176	17	1159.0	135	1041.0	SS	210	966.0
G2-02	2617342.65	516195.96	1188.31	15	1173.3	NA	NA	NA	NA	NA
G2-03	2618199.46	517875.80	1163.49	11	1152.5	NA	NA	NA	NA	NA
G2-04	2617482.72	512662.81	1174.96	19	1156.0	NA	NA	NA	NA	NA
G2-08	2624880.84	514649.89	1161.32	16	1145.3	NA	NA	NA	NA	NA
G2-12	2624516.94	512019.68	1164.05	25	1139.0	NA	NA	NA	NA	NA
G2-14	2619251.33	509115.56	1166.84	18	1148.8	NA	NA	NA	NA	NA
G2-18	2628776.47	509528.26	1151.51	30	1121.5	NA	NA	NA	NA	NA
G2-20	2624861.48	504537.13	1147.84	15	1132.8	NA	NA	NA	NA	NA
G2-21	2626613.71	505871.77	1155.34	17	1138.3	NA	NA	NA	NA	NA
G2-22	2628300.09	508223.79	1115.03	14	1101.0	NA	NA	NA	NA	NA
G2-25	2626906.41	501541.52	1143.81	20	1123.8	NA	NA	NA	NA	NA
G2-26	2629241.84	504303.36	1140.78	15	1125.8	NA	NA	NA	NA	NA
G2-27	2631610.92	505688.40	1143.95	17	1127.0	NA	NA	NA	NA	NA
G2-30	2629407.58	500378.92	1139.44	15	1124.4	NA	NA	NA	NA	NA
G2-31	2632100.02	501708.76	1122.72	7	1115.7	NA	NA	NA	NA	NA
G2-32	2633343.39	504358.43	1105.31	12	1093.3	NA	NA	NA	NA	NA
G2-34	2632709.15	496465.34	1088.57	25	1063.6	NA	NA	NA	NA	NA
G2-35	2632814.94	498254.30	1090.30	20	1070.3	NA	NA	NA	NA	NA
G2-36	2634931.90	499248.41	1075.10	10	1065.1	NA	NA	NA	NA	NA
G2-37	2634854.10	501835.47	1084.68	15.5	1069.2	NA	NA	NA	NA	NA
G2-38	2634612.13	504462.41	1091.20	15	1076.2	NA	NA	NA	NA	NA
G2-39	2634873.46	497422.92	1070.77	25	1045.8	NA	NA	NA	NA	NA
G3-01	2605859.44	512043.57	1178.12	16	1162.1	NA	NA	NA	NA	NA
G3-02	2607701.02	512271.24	1176.68	18.5	1158.2	NA	NA	NA	NA	NA
G3-04	2605425.21	508782.15	1173.08	13	1160.1	NA	NA	NA	NA	NA
G3-05	2607191.85	508980.59	1174.98	18	1157.0	NA	NA	NA	NA	NA
G3-07	2610433.32	508885.07	1175.70	16	1159.7	NA	NA	NA	NA	NA
G3-08	2605044.23	505615.49	1167.62	21	1146.6	NA	NA	NA	NA	NA
G3-12	2611896.15	506279.04	1166.25	14	1152.2	NA	NA	NA	NA	NA
G3-13	2605706.80	501382.46	1157.58	20	1137.6	NA	NA	NA	NA	NA
G3-15	2610482.55	501762.47	1165.86	17	1148.9	NA	NA	NA	NA	NA
G3-16	2612511.58	501810.77	1161.50	22	1139.5	NA	NA	NA	NA	NA
G3-19	2608510.23	498292.41	1159.93	19.5	1140.4	NA	NA	NA	NA	NA
GCW-1	2622991.70	511987.67	1169.50	15	1154.5	NA	NA	NA	NA	NA
GCW-2	2613252.36	506039.55	1170.40	11.5	1158.9	NA	NA	NA	NA	NA
GP-T100-001	2610718.84	493494.12	1122.56	3.3	1119.3	99.0	1023.6	SH	NA	NA
GP-T100-002	2611504.09	493526.16	1118.90	3.5	1115.4	95.0	1023.9	SH	NA	NA
GP-T65-001	2614874.89	504899.82	1171.76	10.5	1161.3	NA	NA	NA	NA	NA
GP-T65-005	2614716.29	504905.79	1171.67	12	1159.7	NA	NA	NA	NA	NA
GP-T65-012	2615110.37	504078.27	1171.64	13	1158.6	NA	NA	NA	NA	NA
GP-T65-013	2614728.74	504123.44	1166.46	17	1149.5	NA	NA	NA	NA	NA
GP-T65-018	2615767.56	503143.65	1168.75	18	1150.7	NA	NA	NA	NA	NA
GP-T66-008	2616151.65	502035.65	1168.77	16	1152.8	NA	NA	NA	NA	NA
GP-T74-007	2612603.42	493182.22	1139.33	1.5	1137.8	NA	NA	NA	NA	NA
H-01	2629721.25	493738.95	1138.29	26	1112.3	NA	NA	NA	NA	NA
H-02	2638383.56	499425.65	1081.15	13	1068.1	NA	NA	NA	NA	NA
H-03	2637359.79	501924.85	1082.50	13	1069.5	NA	NA	NA	NA	NA
H-04	2631087.41	488498.28	1143.28	7	1136.3	NA	NA	NA	NA	NA

Table 2-2
Elevation of Top of Bedrock and Base of Loess/Overbank Fines
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Boring Name	Easting (NAD 83)	Northing (NAD 83)	Ground Surface Elev. (ft NAVD 88)	Thickness of Loess or Overbank Fines (ft)	Bottom Elev. of Loess or Overbank Fines (ft NAVD 88)	Top of Omadi Depth (ft bgs)	Top of Omadi Elevation (ft NAVD 88)	First Encountered Bedrock Type	Top of Pennsylvanian (ft bgs)	Pennsylvanian Bedrock Elevation (ft NAVD 88)
H-05	2638133.05	496237.51	1079.55	19	1060.6	NA	NA	NA	NA	NA
H-06	2640063.71	499294.15	1081.61	13	1068.6	NA	NA	NA	NA	NA
H-07	2640042.56	500739.32	1082.91	15	1067.9	NA	NA	NA	NA	NA
H2-01	2603683.70	522077.52	1200.44	14	1186.4	NA	NA	NA	NA	NA
H2-02	2604184.32	522045.36	1201.03	16	1185.0	NA	NA	NA	NA	NA
H2-03	2605033.15	521570.05	1201.43	15	1186.4	NA	NA	NA	NA	NA
H2-04	2604469.42	522502.36	1201.13	12	1189.1	NA	NA	NA	NA	NA
LL1-002	2605362.62	510372.94	1179.90	13	1166.9	NA	NA	NA	NA	NA
LL1-039	2606129.33	509640.37	1178.07	16	1162.1	NA	NA	NA	NA	NA
LL1-047	2606341.82	509594.76	1173.00	2	1171.0	NA	NA	NA	NA	NA
LL1-048	2606436.15	509735.37	1174.21	12	1162.2	NA	NA	NA	NA	NA
LL1-055	2606432.60	509497.27	1170.59	11	1159.6	NA	NA	NA	NA	NA
LL1-068	2606079.17	509217.02	1178.81	15	1163.8	NA	NA	NA	NA	NA
LL1-069	2606174.50	509102.13	1180.32	14	1166.3	NA	NA	NA	NA	NA
LL1-075	2606242.94	508772.14	1175.79	15	1160.8	NA	NA	NA	NA	NA
LL1-080	2606619.37	508779.48	1171.54	14	1157.5	NA	NA	NA	NA	NA
LL1-094	2606323.60	507699.06	1171.23	13	1158.2	NA	NA	NA	NA	NA
MW-01A (Abandoned)	2618459.72	511743.03	1174.40	8	1166.4	NA	NA	NA	NA	NA
MW-01B (Abandoned)	2618469.56	511743.23	1174.21	8	1166.2	NA	NA	NA	NA	NA
MW-02A	2606800.10	506250.32	1172.62	7	1165.6	99.5	1073.1	SS	NA	NA
MW-02B	2606808.90	506255.48	1172.73	7	1165.7	NA	NA	NA	NA	NA
MW-03A	2607532.26	506223.42	1177.65	8	1169.7	146.0	1031.7	SH	NA	NA
MW-03B	2607542.05	506225.42	1177.60	9	1168.6	NA	NA	NA	NA	NA
MW-04A	2612041.94	506256.77	1166.51	8	1158.5	103.5	1063.0	SH	NA	NA
MW-04B	2612051.44	506259.36	1166.43	15	1151.4	NA	NA	NA	NA	NA
MW-05A	2613044.09	507097.63	1166.10	14	1152.1	100.8	1065.3	SH	NA	NA
MW-05B	2613053.87	507097.47	1165.88	14	1151.9	NA	NA	NA	NA	NA
MW-06A (Abandoned)	2617375.69	506522.12	1163.40	16	1147.4	100.0	1063.4	SH	NA	NA
MW-06B (Abandoned)	2617384.60	506525.48	1163.55	16	1147.6	NA	NA	NA	NA	NA
MW-07A	2618267.09	507274.82	1162.68	18	1144.7	99.5	1063.2	SH	NA	NA
MW-07B	2618276.52	507276.11	1162.33	18	1144.3	NA	NA	NA	NA	NA
MW-08A	2622863.97	506814.76	1163.62	16	1147.6	123.0	1040.6	SS	NA	NA
MW-08B	2622872.08	506820.56	1163.60	16	1147.6	NA	NA	NA	NA	NA
MW-09A	2623570.81	507435.84	1168.78	16.4	1152.4	127.7	1041.1	SS	NA	NA
MW-09B	2623580.33	507436.09	1169.00	18	1151.0	NA	NA	NA	NA	NA
MW-09D	2623593.10	507436.00	1169.31	16.5	1152.8	121.6	1047.7	SS	NA	NA
MW-100A	2629718.84	493770.41	1138.60	14	1124.6	94.0	1044.6	SS	NA	NA
MW-101D	2610935.30	491574.49	1104.99	30	1075.0	83.0	1022.0	SS	NA	NA
MW-102D (Abandoned)	2622935.91	514541.49	1168.76	15.2	1153.6	128.0	1040.8	SS	NA	NA
MW-103D	2623589.45	513132.90	1170.78	21	1149.8	126.0	1044.8	SS	NA	NA
MW-104D	2634100.80	499205.35	1078.81	8.8	1070.0	40.5	1038.3	SS	NA	NA
MW-105A	2635041.98	496642.99	1076.84	8.1	1068.7	40.3	1036.5	SS	NA	NA
MW-106D (Abandoned)	2630549.50	506842.72	1115.50	7.6	1107.9	68.0	1047.5	SS	NA	NA
MW-107D	2631375.03	506131.87	1136.70	15.3	1121.4	89.2	1047.5	SS	NA	NA
MW-108D (Abandoned)	2631916.34	505906.33	1127.11	15	1112.1	81.5	1045.6	SS	NA	NA
MW-109A	2634807.18	501896.06	1083.19	11.3	1071.9	46.7	1036.5	SS	NA	NA
MW-10A	2607883.83	496858.27	1147.91	10	1137.9	100.0	1047.9	SS	NA	NA
MW-10B	2607893.74	496858.92	1147.74	10	1137.7	NA	NA	NA	NA	NA
MW-11	2626486.32	509499.80	1150.76	16	1134.8	48.0	1102.8	SS	NA	NA
MW-110D	2634398.64	504425.93	1091.71	23	1068.7	44.8	1047.0	SS	NA	NA
MW-111A	2636151.56	499337.97	1079.82	7.8	1072.0	40.2	1039.6	SS	NA	NA
MW-112A	2637365.72	501825.77	1082.38	20	1062.4	48.0	1034.4	SH	NA	NA
MW-113D	2637420.34	500466.05	1080.82	25	1055.8	41.5	1039.3	SS	NA	NA
MW-114D	2637475.70	497209.79	1077.87	14.5	1063.4	48.0	1029.9	SS	NA	NA

Table 2-2
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MW-115D	2637708.86	495346.84	1079.36	13	1066.4	49.0	1030.4	SS	NA	NA
MW-116D	2636334.22	495293.68	1078.07	24	1054.1	43.0	1035.1	SS	NA	NA
MW-117D (Abandoned)	2631042.35	495042.20	1122.36	11.5	1110.9	76.0	1046.4	SS	NA	NA
MW-118A	2625890.44	496207.69	1141.67	20.5	1121.2	97.0	1044.7	SH	NA	NA
MW-119A	2607952.61	499580.81	1159.38	14.2	1145.2	129.9	1029.5	SS	NA	NA
MW-12 (Abandoned)	2606856.25	509013.88	1176.27	11	1165.3	NA	NA	NA	NA	NA
MW-120A	2609372.30	499419.07	1166.72	12.3	1154.4	138.1	1028.6	SS	NA	NA
MW-120D	2609371.09	499409.47	1166.88	12.3	1154.6	138.0	1028.9	SS	NA	NA
MW-121A	2609752.79	500071.02	1170.27	11.3	1159.0	141.8	1028.5	SS	NA	NA
MW-122A	2609240.41	498101.34	1166.25	23.5	1142.8	138.0	1028.3	SH	NA	NA
MW-123A	2608677.91	499909.07	1169.28	12	1157.3	141.9	1027.4	SS	NA	NA
MW-124D	2609125.65	501475.69	1162.24	15.7	1146.5	115.1	1047.1	SS	NA	NA
MW-125A	2609457.06	500663.23	1162.35	15.6	1146.8	NA	NA	NA	NA	NA
MW-125D	2609446.30	500664.74	1161.80	15.6	1146.2	127.5	1034.3	SH	NA	NA
MW-126D	2607483.02	504494.77	1170.71	12.8	1157.9	141.5	1029.2	SS	NA	NA
MW-127A	2606121.55	506918.35	1169.30	15.8	1153.5	128.5	1040.8	SH	NA	NA
MW-128D (Abandoned)	2624833.49	498183.94	1154.10	7	1147.1	107.4	1046.7	SS	NA	NA
MW-129D	2627759.96	496536.62	1146.52	16	1130.5	101.0	1045.5	SS	NA	NA
MW-13 (Abandoned)	2612231.38	509178.55	1172.84	16.6	1156.2	NA	NA	NA	NA	NA
MW-130D	2629047.82	496641.12	1142.69	18.5	1124.2	98.0	1044.7	SS	NA	NA
MW-131D	2626333.42	496933.31	1145.22	15	1130.2	98.0	1047.2	SS	NA	NA
MW-132D (Abandoned	2625250.89	497247.01	1157.27	18.8	1138.5	107.5	1049.8	SS	NA	NA
MW-133D	2622523.17	509713.15	1167.05	12	1155.1	106.5	1060.6	SS	NA	NA
MW-134D	2623421.55	509039.29	1168.85	14.5	1154.4	114.0	1054.9	SH	NA	NA
MW-135D	2623149.03	509752.68	1165.67	13	1152.7	110.0	1055.7	SS	NA	NA
MW-136D	2623043.85	510561.58	1168.06	15.2	1152.9	109.1	1059.0	SS	NA	NA
MW-137D (Abandoned)	2622826.93	511700.85	1166.53	16.9	1149.6	104.2	1062.3	SS	NA	NA
MW-138A	2622366.41	512816.57	1173.34	18.1	1155.2	127.2	1046.1	SS	NA	NA
MW-139A	2621290.29	514264.29	1177.69	16.5	1161.2	140.9	1036.8	SS	NA	NA
MW-14 (Abandoned)	2617504.71	509391.07	1176.80	8	1168.8	NA	NA	NA	NA	NA
MW-140D	2634718.42	503365.40	1090.06	10.5	1079.6	46.7	1043.4	SS	NA	NA
MW-141A	2608446.60	502590.64	1162.42	19	1143.4	126.0	1036.4	SS	NA	NA
MW-141B	2608446.50	502597.16	1162.42	19	1143.4	NA	NA	NA	NA	NA
MW-141E	2608446.50	502604.35	1162.35	19	1143.4	NA	NA	NA	NA	NA
MW-142A	2610572.95	495594.89	1154.81	15.3	1139.5	131.0	1023.8	SS	NA	NA
MW-142E	2610563.98	495595.06	1154.55	15.3	1139.3	NA	NA	NA	NA	NA
MW-143B	2621339.98	502719.77	1156.44	16	1140.4	NA	NA	NA	NA	NA
MW-144A	2614012.25	503570.97	1164.51	20	1144.5	101.0	1063.5	SH	NA	NA
MW-145A	2617407.83	500652.84	1161.08	17.5	1143.6	NA	NA	NA	NA	NA
MW-145E	2617414.44	500652.99	1161.26	17.5	1143.8	NA	NA	NA	NA	NA
MW-146A	2618871.66	494899.38	1148.50	13	1135.5	97.0	1051.5	SS	NA	NA
MW-146B	2618871.66	494899.37	1148.44	13	1135.4	NA	NA	NA	NA	NA
MW-147A	2620042.45	494474.75	1149.17	10	1139.2	NA	NA	NA	NA	NA
MW-147B	2620045.18	494471.71	1149.06	10	1139.1	NA	NA	NA	NA	NA
MW-147D	2620047.88	494467.74	1148.87	10	1138.9	NA	NA	NA	NA	NA
MW-148A	2620166.75	504433.59	1158.04	15.5	1142.5	102.0	1056.0	SH	NA	NA
MW-148B	2620179.92	504425.78	1161.01	15	1146.0	NA	NA	NA	NA	NA
MW-149A	2622398.38	502086.76	1152.64	20	1132.6	NA	NA	NA	NA	NA
MW-15 (Abandoned)	2622745.33	509482.90	1167.71	12.5	1155.2	NA	NA	NA	NA	NA
MW-150A	2624201.15	499856.55	1147.93	18	1129.9	NA	NA	NA	NA	NA
MW-150B	2624200.78	499864.11	1147.88	18	1129.9	NA	NA	NA	NA	NA
MW-151A	2624392.64	506668.08	1159.08	18	1141.1	NA	NA	NA	NA	NA
MW-151B	2624386.31	506667.26	1159.12	18	1141.1	NA	NA	NA	NA	NA

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Boring Name	Easting (NAD 83)	Northing (NAD 83)	Ground Surface Elev. (ft NAVD 88)	Thickness of Loess or Overbank Fines (ft)	Bottom Elev. of Loess or Overbank Fines (ft NAVD 88)	Top of Omadi Depth (ft bgs)	Top of Omadi Elevation (ft NAVD 88)	First Encountered Bedrock Type	Top of Pennsylvanian (ft bgs)	Pennsylvanian Bedrock Elevation (ft NAVD 88)
MW-152B	2627865.21	506805.72	1148.71	21	1127.7	NA	NA	NA	NA	NA
MW-153A	2627200.19	504130.22	1146.55	19	1127.6	99.0	1047.6	SH	NA	NA
MW-154A	2631170.17	504308.25	1141.43	15	1126.4	NA	NA	NA	NA	NA
MW-158D	2635266.75	493887.31	1076.98	21	1056.0	34.0	1043.0	SS	NA	NA
MW-159A	2629111.80	510307.65	1164.03	22	1142.0	122.0	1042.0	SH	NA	NA
MW-160A	2609501.29	496947.49	1154.92	18	1136.9	132.4	1022.5	SS	NA	NA
MW-161A	2608418.56	503133.22	1166.98	13	1154.0	133.0	1034.0	SS	NA	NA
MW-162A	2618293.12	498773.02	1149.34	15	1134.3	95.0	1054.3	SS	NA	NA
MW-164A	2617493.86	498294.97	1150.51	10.3	1140.2	100.0	1050.5	SS	NA	NA
MW-166A	2618657.29	496609.56	1151.21	17	1134.2	104.0	1047.2	SS	NA	NA
MW-167A	2619420.51	497423.40	1148.16	18	1130.2	98.0	1050.2	SS	NA	NA
MW-168A	2620186.36	498009.89	1153.06	12.2	1140.9	102.2	1050.9	SS	NA	NA
MW-169A	2619932.75	495501.60	1146.05	18	1128.0	102.0	1044.0	SS	NA	NA
MW-16C	2604917.63	514034.74	1186.74	13.7	1173.0	NA	NA	NA	NA	NA
MW-170A	2621225.19	496442.89	1146.02	14	1132.0	98.0	1048.0	SS	NA	NA
MW-171A	2615668.94	501881.31	1160.55	18	1142.5	NA	NA	NA	NA	NA
MW-17A (Abandoned)	2603293.03	499100.33	1126.40	24.3	1102.1	57.0	1069.4	SH	NA	NA
MW-17B	2603293.03	499101.48	1126.20	24.3	1101.9	56.8	1069.4	SH	NA	NA
MW-18A	2629150.33	506832.34	1142.80	8	1134.8	100.8	1042.0	SS	NA	NA
MW-18C	2629148.53	506821.93	1143.38	15.5	1127.9	NA	NA	NA	NA	NA
MW-19C (Abandoned)	2618426.14	517568.83	1156.64	5.5	1151.1	NA	NA	NA	NA	NA
MW-20B	2616633.43	493191.47	1157.72	10	1147.7	111.6	1046.1	SS	NA	NA
MW-20C	2616611.43	493187.61	1157.84	6.2	1151.6	NA	NA	NA	NA	NA
MW-21A	2607121.37	503524.81	1163.72	20	1143.7	NA	NA	NA	NA	NA
MW-21B	2607111.29	503524.05	1163.67	20	1143.7	NA	NA	NA	NA	NA
MW-21D	2607131.41	503525.83	1163.67	19.9	1143.8	127.3	1036.4	SS	NA	NA
MW-22A (Abandoned)	2606598.39	510402.07	1174.93	14.8	1160.1	99.5	1075.4	SH	NA	NA
MW-22B (Abandoned)	2606604.48	510403.43	1174.81	15	1159.8	NA	NA	NA	NA	NA
MW-23A (Abandoned)	2606402.57	509376.37	1171.88	14	1157.9	99.3	1072.6	SH	NA	NA
MW-23B (Abandoned)	2606393.06	509383.87	1172.05	14	1158.1	NA	NA	NA	NA	NA
MW-24A	2608476.90	501919.83	1161.37	15.8	1145.6	125.0	1036.4	SH	NA	NA
MW-24B	2608477.73	501909.01	1161.27	16	1145.3	NA	NA	NA	NA	NA
MW-25A	2608308.41	504875.16	1173.23	14	1159.2	NA	NA	NA	NA	NA
MW-25B	2608308.27	504885.58	1172.93	13	1159.9	NA	NA	NA	NA	NA
MW-25D (Abandoned)	2608308.83	504864.77	1173.54	13.5	1160.0	145.0	1028.5	SS	NA	NA
MW-26A (Abandoned)	2609860.44	508825.09	1172.44	14.5	1157.9	103.8	1068.6	SS	NA	NA
MW-26B (Abandoned)	2609849.90	508824.87	1172.42	16	1156.4	NA	NA	NA	NA	NA
MW-27A (Abandoned)	2611434.64	508103.04	1174.14	8.9	1165.2	106.8	1067.3	SH	NA	NA
MW-27B	2611427.01	508110.55	1174.12	9	1165.1	NA	NA	NA	NA	NA
MW-28A	2612951.02	502242.71	1170.29	10	1160.3	138.0	1032.3	SS	NA	NA
MW-28D	2612969.60	502242.92	1169.84	11	1158.8	138.0	1031.8	SS	NA	NA
MW-29A	2614469.84	498383.11	1158.50	14.3	1144.2	137.1	1021.4	SH	NA	NA
MW-29B	2614460.98	498382.37	1158.75	14.5	1144.3	NA	NA	NA	NA	NA
MW-30A (Abandoned)	2616288.05	507064.54	1166.60	19.8	1146.8	101.5	1065.1	SH	NA	NA
MW-30B (Abandoned)	2616281.83	507065.86	1166.44	19.8	1146.6	NA	NA	NA	NA	NA
MW-31A	2617943.95	503233.70	1165.35	8	1157.4	106.0	1059.4	SH	NA	NA
MW-31B	2617935.17	503238.63	1165.06	8	1157.1	NA	NA	NA	NA	NA
MW-32A	2619697.25	499062.26	1152.35	17	1135.4	NA	NA	NA	NA	NA
MW-32B	2619696.91	499069.08	1152.31	17	1135.3	NA	NA	NA	NA	NA

Table 2-2
Elevation of Top of Bedrock and Base of Loess/Overbank Fines
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Boring Name	Easting (NAD 83)	Northing (NAD 83)	Ground Surface Elev. (ft NAVD 88)	Thickness of Loess or Overbank Fines (ft)	Bottom Elev. of Loess or Overbank Fines (ft NAVD 88)	Top of Omadi Depth (ft bgs)	Top of Omadi Elevation (ft NAVD 88)	First Encountered Bedrock Type	Top of Pennsylvanian (ft bgs)	Pennsylvanian Bedrock Elevation (ft NAVD 88)
MW-32D	2619697.54	499055.63	1152.07	17	1135.1	99.5	1052.6	SH	NA	NA
MW-33A	2622410.84	502847.90	1158.43	7.5	1150.9	NA	NA	NA	NA	NA
MW-33B	2622401.05	502854.78	1158.53	7.5	1151.0	NA	NA	NA	NA	NA
MW-33D	2622421.53	502856.96	1158.29	7.5	1150.8	116.5	1041.8	SS	NA	NA
MW-34A	2624442.78	498806.30	1155.05	20	1135.1	113.0	1042.1	SS	NA	NA
MW-34B	2624443.06	498814.11	1155.00	20	1135.0	NA	NA	NA	NA	NA
MW-34D (Abandoned)	2624442.36	498796.40	1154.83	19.9	1134.9	112.9	1041.9	SS	NA	NA
MW-35A	2629595.75	496323.63	1137.80	17.5	1120.3	92.5	1045.3	SS	NA	NA
MW-35B	2629595.84	496329.36	1137.76	17.5	1120.3	NA	NA	NA	NA	NA
MW-35D	2629595.79	496317.09	1137.78	17.5	1120.3	93.0	1044.8	SS	NA	NA
MW-36A (Abandoned)	2634814.84	496694.95	1076.84	15	1061.8	NA	NA	NA	NA	NA
MW-36B (Abandoned)	2634805.75	496692.86	1076.80	15	1061.8	NA	NA	NA	NA	NA
MW-36D (Abandoned)	2634824.46	496697.59	1076.93	15.5	1061.4	39.0	1037.9	SS	NA	NA
MW-37A (Abandoned)	2633418.32	491651.94	1083.05	10.5	1072.6	41.4	1041.7	SS	NA	NA
MW-37B (Abandoned)	2633416.51	491631.65	1083.07	10.5	1072.6	NA	NA	NA	NA	NA
MW-37D (Abandoned)	2633413.67	491666.00	1082.98	10.5	1072.5	41.5	1041.5	SS	NA	NA
MW-38A	2638131.88	496248.57	1079.98	13.1	1066.9	49.2	1030.8	SS	NA	NA
MW-38D	2638138.80	496250.60	1079.98	13.1	1066.9	49.2	1030.8	SS	NA	NA
MW-39A (Abandoned)	2640062.25	499304.69	1081.00	10.7	1070.3	48.5	1032.5	SS	NA	NA
MW-39D (Abandoned)	2640059.10	499298.90	1081.00	10.7	1070.3	48.5	1032.5	SS	NA	NA
MW-40A	2623018.62	511963.35	1170.09	15.7	1154.4	127.6	1042.5	SS	NA	NA
MW-40B	2623006.75	511962.76	1170.38	16	1154.4	NA	NA	NA	NA	NA
MW-41A (Abandoned)	2624371.47	512001.33	1166.32	19	1147.3	82.3	1084.0	SS	NA	NA
MW-41B (Abandoned)	2624361.83	512001.37	1166.27	19	1147.3	NA	NA	NA	NA	NA
MW-41D (Abandoned)	2624353.22	512000.98	1166.41	19	1147.4	82.0	1084.4	SS	NA	NA
MW-42A	2629385.20	501582.56	1144.54	16	1128.5	NA	NA	NA	NA	NA
MW-42B	2629385.28	501592.64	1144.51	16	1128.5	NA	NA	NA	NA	NA
MW-42D	2629384.99	501572.17	1144.41	16	1128.4	97.7	1046.7	SS	NA	NA
MW-43A	2629243.07	504317.91	1141.02	17	1124.0	NA	NA	NA	NA	NA
MW-43B	2629244.24	504328.20	1140.90	17	1123.9	NA	NA	NA	NA	NA
MW-43D	2629242.21	504308.09	1140.95	16.3	1124.7	101.5	1039.5	SS	NA	NA
MW-44A	2632953.68	500415.12	1091.91	16	1075.9	NA	NA	NA	NA	NA
MW-44B	2632954.90	500426.32	1090.62	15.5	1075.1	NA	NA	NA	NA	NA
MW-44D	2632952.84	500403.76	1092.31	17	1075.3	44.0	1048.3	SS	NA	NA
MW-45A (Abandoned)	2635043.54	499241.12	1079.57	11.7	1067.9	NA	NA	NA	NA	NA
MW-45B (Abandoned)	2635053.92	499241.15	1079.54	11.7	1067.8	NA	NA	NA	NA	NA
MW-45D (Abandoned)	2635032.46	499241.76	1079.66	11.7	1068.0	39.0	1040.7	SS	NA	NA
MW-46A	2637464.94	499387.37	1080.71	12	1068.7	47.5	1033.2	SS	NA	NA
MW-46D	2637465.40	499375.99	1080.71	11.5	1069.2	47.5	1033.2	SS	NA	NA
MW-47A (Abandoned)	2603834.71	524480.73	1199.76	20	1179.8	126.0	1073.8	SH	NA	NA
MW-47B (Abandoned)	2603819.42	524480.21	1199.77	20	1179.8	NA	NA	NA	NA	NA
MW-48A (Abandoned)	2607436.75	519363.04	1191.36	18	1173.4	122.0	1069.4	SS	NA	NA

Table 2-2
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Boring Name	Easting (NAD 83)	Northing (NAD 83)	Ground Surface Elev. (ft NAVD 88)	Thickness of Loess or Overbank Fines (ft)	Bottom Elev. of Loess or Overbank Fines (ft NAVD 88)	Top of Omadi Depth (ft bgs)	Top of Omadi Elevation (ft NAVD 88)	First Encountered Bedrock Type	Top of Pennsylvanian (ft bgs)	Pennsylvanian Bedrock Elevation (ft NAVD 88)
MW-48B (Abandoned)	2607442.66	519367.88	1191.35	18	1173.4	NA	NA	NA	NA	NA
MW-48D (Abandoned)	2607427.86	519358.29	1191.64	18	1173.6	119.4	1072.2	SS	NA	NA
MW-52A (Abandoned)	2627012.55	508784.57	1153.51	18.8	1134.7	60.0	1093.5	SH	NA	NA
MW-52B (Abandoned)	2627004.24	508778.94	1153.91	19	1134.9	NA	NA	NA	NA	NA
MW-53A	2627897.77	508169.88	1134.42	10.9	1123.5	99.9	1034.5	SS	NA	NA
MW-53B	2627885.40	508166.61	1134.89	11	1123.9	NA	NA	NA	NA	NA
MW-54A (Abandoned)	2627893.82	508858.25	1119.72	23	1096.7	81.5	1038.2	SS	NA	NA
MW-54B (Abandoned)	2627883.88	508855.98	1119.72	23.1	1096.6	NA	NA	NA	NA	NA
MW-55A (Abandoned)	2628135.40	508377.66	1124.52	5	1119.5	85.0	1039.5	SS	NA	NA
MW-55B (Abandoned)	2628125.88	508374.22	1125.08	3	1122.1	NA	NA	NA	NA	NA
MW-56A	2628206.01	508215.32	1124.17	4	1120.2	81.0	1043.2	SS	NA	NA
MW-56B	2628195.32	508217.29	1124.44	3.5	1120.9	NA	NA	NA	NA	NA
MW-57B	2607621.51	516363.44	1194.32	13	1181.3	NA	NA	NA	NA	NA
MW-58A (Abandoned)	2620357.49	515008.03	1173.48	26	1147.5	135.0	1038.5	SS	NA	NA
MW-58B (Abandoned)	2620346.02	515009.76	1173.40	26	1147.4	134.0	1039.4	SS	NA	NA
MW-59A (Abandoned)	2621708.41	515882.45	1161.06	10.5	1150.6	NA	NA	NA	NA	NA
MW-59B (Abandoned)	2621700.91	515887.73	1161.29	10	1151.3	NA	NA	NA	NA	NA
MW-59D (Abandoned)	2621717.33	515878.49	1160.85	9.5	1151.4	125.0	1035.9	SS	NA	NA
MW-60A	2624702.83	489585.15	1143.95	7.7	1136.3	102.5	1041.5	SH	NA	NA
MW-60B (Abandoned)	2624703.22	489598.70	1144.12	7.7	1136.4	NA	NA	NA	NA	NA
MW-61A	2608656.02	492900.05	1106.91	9	1097.9	NA	NA	NA	NA	NA
MW-61B	2608644.38	492898.60	1106.84	9	1097.8	NA	NA	NA	NA	NA
MW-61D	2608667.93	492901.85	1106.85	8.9	1098.0	87.5	1019.4	SH	NA	NA
MW-62A (Abandoned)	2635396.62	493874.24	1076.62	17	1059.6	NA	NA	NA	NA	NA
MW-62B (Abandoned)	2635385.06	493871.95	1076.52	17	1059.5	NA	NA	NA	NA	NA
MW-62D (Abandoned)	2635407.14	493876.96	1076.90	17.1	1059.8	37.6	1039.3	SS	NA	NA
MW-63B (Abandoned)	2613167.91	519473.60	1175.66	13	1162.7	NA	NA	NA	NA	NA
MW-64B (Abandoned)	2628038.55	510106.02	1142.35	8	1134.4	NA	NA	NA	NA	NA
MW-72A	2622930.98	512064.69	1171.21	17.5	1153.7	NA	NA	NA	NA	NA
MW-73A	2623060.93	511909.15	1167.79	17	1150.8	NA	NA	NA	NA	NA
MW-74A (Abandoned)	2623093.85	511934.84	1167.78	17.5	1150.3	NA	NA	NA	NA	NA
MW-79A (Abandoned)	2610432.14	492336.21	1107.15	20	1087.2	85.7	1021.5	SH	NA	NA
MW-80D	2610935.55	492068.65	1105.22	20	1085.2	82.5	1022.7	SS	NA	NA
MW-81D (Abandoned)	2611633.37	492349.85	1106.40	11	1095.4	94.2	1012.2	SS	NA	NA
MW-82D	2619293.00	493310.90	1147.10	16.1	1131.0	112.0	1035.1	SS	NA	NA
MW-83D	2621922.97	495288.85	1150.30	13	1137.3	111.0	1039.3	SS	NA	NA
MW-84D	2624275.75	495695.58	1143.20	16.5	1126.7	97.5	1045.7	SS	NA	NA
MW-85D	2628338.54	494428.03	1130.40	12.5	1117.9	84.5	1045.9	SS	NA	NA
MW-86D	2631944.47	493760.43	1111.48	3.5	1108.0	63.0	1048.5	SS	NA	NA

Table 2-2
Elevation of Top of Bedrock and Base of Loess/Overbank Fines
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Boring Name	Easting (NAD 83)	Northing (NAD 83)	Ground Surface Elev. (ft NAVD 88)	Thickness of Loess or Overbank Fines (ft)	Bottom Elev. of Loess or Overbank Fines (ft NAVD 88)	Top of Omadi Depth (ft bgs)	Top of Omadi Elevation (ft NAVD 88)	First Encountered Bedrock Type	Top of Pennsylvanian (ft bgs)	Pennsylvanian Bedrock Elevation (ft NAVD 88)
MW-87D (Abandoned)	2635044.01	491895.21	1075.83	17.3	1058.5	46.0	1029.8	SS	NA	NA
MW-88D	2637648.62	494046.08	1078.71	2	1076.7	45.0	1033.7	SS	NA	NA
MW-89D	2610451.41	494254.27	1158.55	15	1143.6	NA	NA	NA	NA	NA
MW-90D	2611244.85	494306.05	1149.25	15	1134.3	125.2	1024.1	SS	NA	NA
MW-91D	2612085.70	494327.97	1149.78	11.7	1138.1	120.0	1029.8	SH	NA	NA
MW-92A (Abandoned)	2610047.26	492722.58	1106.58	15	1091.6	82.5	1024.1	SH	NA	NA
MW-93A	2612162.89	493551.29	1122.07	15.8	1106.3	95.0	1027.1	SH	NA	NA
MW-94D (Abandoned)	2617023.47	496422.56	1150.82	13	1137.8	110.5	1040.3	SH	NA	NA
MW-95D	2617558.46	494509.13	1154.45	15.5	1139.0	118.0	1036.5	SH	NA	NA
MW-96D	2621476.25	493387.89	1146.00	16.8	1129.2	96.5	1049.5	SS	NA	NA
MW-97D	2623943.48	493493.13	1140.60	16	1124.6	94.0	1046.6	SS	NA	NA
MW-98D	2626502.36	493605.21	1139.00	15	1124.0	92.0	1047.0	SS	NA	NA
MW-99D	2627116.77	498773.68	1160.38	18.1	1142.3	112.0	1048.4	SS	NA	NA
OW-01	2607922.86	499747.98	1159.51	20	1139.5	152.5	1007.0	SH	NA	NA
OW-02	2607882.80	499737.42	1159.42	20	1139.4	151.0	1008.4	SH	NA	NA
OW-03	2607936.15	499790.42	1159.38	20	1139.4	152.0	1007.4	SH	NA	NA
OW-04	2607936.23	499764.72	1159.50	20	1139.5	152.5	1007.0	SH	NA	NA
OW-05	2634934.82	495184.29	1078.11	16.5	1061.6	39.0	1039.1	SS	NA	NA
OW-06	2634884.33	495208.11	1076.55	17	1059.6	39.5	1037.1	SS	NA	NA
OW-07	2634884.15	495203.34	1076.66	16.5	1060.2	39.5	1037.2	SS	NA	NA
OW-08	2634786.34	495194.19	1075.64	17	1058.6	39.7	1035.9	SS	NA	NA
OW-09	2634937.80	495134.36	1078.72	16.5	1062.2	40.0	1038.7	SS	NA	NA
OW-10	2635084.86	495206.73	1076.84	16	1060.8	39.0	1037.8	SS	NA	NA
OW-11	2635254.36	495167.81	1075.87	21	1054.9	44.0	1031.9	SS	NA	NA
OW-12	2636332.13	495279.48	1077.53	15.8	1061.7	41.0	1036.5	SS	NA	NA
OW-13	2634929.33	495121.80	1078.32	20	1058.3	39.0	1039.3	SS	NA	NA
OW-14	2634937.07	494987.77	1077.67	19.5	1058.2	39.0	1038.7	SS	NA	NA
OW-15	2634948.12	494788.06	1078.15	22	1056.2	42.0	1036.2	SS	NA	NA
OW-16	2633480.01	495159.25	1075.13	22.8	1052.3	39.0	1036.1	SS	NA	NA
OW-17	2607999.94	499877.66	1159.10	37	1122.1	150.0	1009.1	SS	NA	NA
OW-18	2608114.43	499884.02	1159.80	46	1113.8	149.5	1010.3	SS	NA	NA
OW-19	2608709.98	499902.62	1169.49	14.8	1154.7	149.0	1020.5	SS	NA	NA
OW-20	2607954.58	499696.42	1160.12	34	1126.1	148.0	1012.1	SS	NA	NA
OW-21	2607936.83	499559.45	1156.90	17	1139.9	154.0	1002.9	SS	NA	NA
OW-22	2608019.74	499355.14	1158.59	24	1134.6	152.5	1006.1	SS	NA	NA
OW-23	2607158.35	499656.44	1158.88	43	1115.9	136.5	1022.4	SS	NA	NA
OW-24	2629552.06	496984.50	1149.56	15	1134.6	101.0	1048.6	SS	NA	NA
OW-25	2629511.42	496932.08	1152.33	2	1150.3	111.0	1041.3	SH	NA	NA
OW-26	2629214.17	496664.05	1145.12	10	1135.1	101.0	1044.1	SH	NA	NA
OW-27	2629582.05	496942.21	1149.80	16	1133.8	98.0	1051.8	SH	NA	NA
OW-28	2629581.52	496898.00	1150.76	9	1141.8	101.0	1049.8	SH	NA	NA
OW-30	2629965.06	497303.88	1128.69	16	1112.7	87.0	1041.7	SH	NA	NA
OW-31	2624242.96	497898.99	1152.35	37	1115.4	104.0	1048.4	SS	NA	NA
OW-32	2624139.95	497845.07	1151.31	15	1136.3	104.0	1047.3	SS	NA	NA
OW-33	2623750.57	497669.79	1152.38	16	1136.4	NA	NA	NA	NA	NA
OW-34	2624320.18	497868.57	1151.61	12	1139.6	102.0	1049.6	SS	NA	NA
OW-35	2624360.77	497738.45	1150.66	17	1133.7	104.0	1046.7	SS	NA	NA
OW-36	2624413.00	497337.59	1153.96	19	1135.0	113.0	1041.0	SS	NA	NA
OW-37	2624838.27	498178.35	1154.41	13	1141.4	108.8	1045.7	SS	NA	NA
OW-38	2621733.08	496294.86	1147.66	18	1129.7	98.0	1049.7	SH	NA	NA
OW-39	2621620.02	496212.33	1147.82	19	1128.8	97.0	1050.8	SH	NA	NA
OW-40	2621297.36	495975.58	1154.21	28	1126.2	104.0	1050.2	SS	NA	NA
OW-41	2621816.64	496281.90	1146.75	18	1128.8	95.0	1051.8	SH	NA	NA
OW-42	2621899.70	496169.43	1147.71	17	1130.7	95.0	1052.7	SH	NA	NA
OW-43	2622135.38	495845.76	1153.24	15	1138.2	103.0	1050.2	SH	NA	NA
OW-44	2622302.63	496682.05	1144.63	18	1126.6	94.0	1050.6	SH	NA	NA
OW-45	2619203.17	494842.21	1149.11	19	1130.1	114.0	1035.1	SS	NA	NA
OW-46	2619059.00	494783.36	1148.16	18	1130.2	105.5	1042.7	SS	NA	NA

Table 2-2
Elevation of Top of Bedrock and Base of Loess/Overbank Fines
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Boring Name	Easting (NAD 83)	Northing (NAD 83)	Ground Surface Elev. (ft NAVD 88)	Thickness of Loess or Overbank Fines (ft)	Bottom Elev. of Loess or Overbank Fines (ft NAVD 88)	Top of Omadi Depth (ft bgs)	Top of Omadi Elevation (ft NAVD 88)	First Encountered Bedrock Type	Top of Pennsylvanian (ft bgs)	Pennsylvanian Bedrock Elevation (ft NAVD 88)
OW-47	2618684.83	494630.88	1149.85	16	1133.9	100.0	1049.9	SH	NA	NA
OW-48	2619283.37	494800.47	1150.11	14.5	1135.6	118.0	1032.1	SS	NA	NA
OW-49	2619315.78	494671.87	1150.81	19	1131.8	114.0	1036.8	SS	NA	NA
OW-50	2619465.62	494300.16	1147.70	19.5	1128.2	104.5	1043.2	SS	NA	NA
OW-51	2619790.64	495096.02	1146.50	10	1136.5	NA	NA	NA	NA	NA
PTMW-01I	2607249.86	504308.26	1164.80	18	1146.8	NA	NA	NA	NA	NA
PTMW-01S	2607249.07	504314.26	1164.80	18	1146.8	NA	NA	NA	NA	NA
PTMW-02I	2607285.87	504442.69	1166.30	17	1149.3	NA	NA	NA	NA	NA
PTMW-02S	2607288.04	504436.69	1166.30	17	1149.3	NA	NA	NA	NA	NA
PTMW-03D	2607319.02	504391.70	1165.70	14	1151.7	NA	NA	NA	NA	NA
PTMW-03I	2607324.72	504381.50	1165.70	17	1148.7	NA	NA	NA	NA	NA
PTMW-03S	2607322.22	504386.60	1165.60	17	1148.6	NA	NA	NA	NA	NA
PTMW-04D	2607353.76	504348.75	1165.70	27	1138.7	NA	NA	NA	NA	NA
PTMW-04I	2607346.69	504357.00	1165.50	18	1147.5	NA	NA	NA	NA	NA
PTMW-04S	2607349.97	504353.21	1165.60	18	1147.6	NA	NA	NA	NA	NA
PTMW-05I	2607357.16	504324.38	1165.90	18	1147.9	NA	NA	NA	NA	NA
PTMW-05S	2607361.67	504324.01	1165.90	18	1147.9	NA	NA	NA	NA	NA
PTMW-06D	2607361.81	504381.76	1166.10	20	1146.1	NA	NA	NA	NA	NA
PTMW-06I	2607366.44	504374.81	1166.10	18	1148.1	NA	NA	NA	NA	NA
PTMW-06S	2607363.93	504378.35	1166.20	18	1148.2	NA	NA	NA	NA	NA
PTMW-07I	2607384.66	504386.78	1166.60	18	1148.6	NA	NA	NA	NA	NA
PTMW-07S	2607380.85	504389.56	1166.60	18	1148.6	NA	NA	NA	NA	NA
PZ-11	2633021.33	501935.48	1097.61	21.5	1076.1	NA	NA	NA	NA	NA
PZ-12	2632569.72	499118.82	1105.36	15	1090.4	NA	NA	NA	NA	NA
PZ-13	2633396.43	499150.91	1085.78	19	1066.8	NA	NA	NA	NA	NA
PZ-14	2633403.55	499154.07	1084.94	19	1065.9	NA	NA	NA	NA	NA
S64-1	2622147.92	501338.92	1158.40	15	1143.4	105.0	1053.4	SS	NA	NA
S67-1	2610710.31	499819.17	1166.40	20	1146.4	125.0	1041.4	SS	NA	NA
SB-T59-07	2611706.60	497243.01	1175.00	15.1	1159.9	134.8	1040.2	SH/SS	NA	NA
SB-T60-02	2609527.00	495561.00	1156.00	11	1145.0	137.0	1019.0	SS	NA	NA
SB-T61-05	2619654.48	496031.17	1149.70	17.7	1132.0	96.1	1053.6	SS	NA	NA
SB-T62-01	2618413.40	494621.64	1152.70	13.5	1139.2	101.0	1051.7	SS	NA	NA
SB-T63-03	2619609.67	494392.92	1148.50	16.3	1132.2	101.0	1047.5	SS	NA	NA
T42-1	2606071.96	514287.87	1181.44	16	1165.4	106.0	1075.4	SH	NA	NA
T42-10	2609088.88	519505.26	1191.45	25	1166.4	124.0	1067.4	SH	NA	NA
T42-20A	2603800.79	509724.91	1175.43	15	1160.4	125.0	1050.4	SH	NA	NA
T42-4A	2606933.15	512443.52	1178.43	16	1162.4	108.0	1070.4	SH	NA	NA
T42-6A	2605273.13	514133.02	1182.44	15	1167.4	107.0	1075.4	SH	NA	NA
T42-7	2618672.65	505566.78	1159.41	16.5	1142.9	99.0	1060.4	SH	NA	NA
T42-7A	2609949.14	510867.74	1178.00	30	1148.0	108.0	1070.0	SH	NA	NA
T42-8	2613525.74	505285.32	1169.41	17	1152.4	111.0	1058.4	SH	NA	NA
T42-9	2608523.46	505864.58	1170.42	45	1125.4	134.0	1036.4	SH	NA	NA
T42-9A	2624097.82	509349.23	1168.41	30	1138.4	85.0	1083.4	SH	NA	NA
T62-2B	2603590.15	503374.89	1173.42	8.8	1164.6	108.9	1064.5	SH	NA	NA
T62-3	2609250.35	493411.50	1163.00	10.5	1152.5	94.0	1069.0	SS	NA	NA
T62-3B	2618953.27	498700.15	1173.00	12.5	1160.5	111.0	1062.0	SS	196.2	976.8
T62-7	2624203.07	498619.97	1105.00	20	1085.0	98.0	1007.0	SS	NA	NA
T62-8	2624007.26	504166.57	1153.00	16	1137.0	115.0	1038.0	SS	NA	NA
T63-1	2614138.48	499970.13	1162.00	18	1144.0	135.0	1027.0	SH	186	976.0
T63-2	2619861.04	510623.02	1173.00	18	1155.0	119.0	1054.0	SH	198	975.0
T64-1	2621732.02	501252.03	1158.00	15	1143.0	105.0	1053.0	SS	NA	NA
T64-1A	2609303.79	509008.72	1172.00	15	1157.0	110.0	1062.0	SH	NA	NA
T64-2A	2609410.57	507909.60	1175.00	20	1155.0	114.0	1061.0	SH	NA	NA
T64-8-A	2611878.54	505977.74	1170.00	13	1157.0	123.5	1046.5	SH	NA	NA
T65-1	2609193.24	510344.78	1181.00	20	1161.0	118.0	1063.0	SH	NA	NA
T65-3	2617814.91	506744.52	1176.00	20	1156.0	115.0	1061.0	SH	175	1001.0
T65-4	2616840.22	502806.11	1166.41	20	1146.4	103.0	1063.4	SH	177	989.4
T65-5	2621071.94	505581.47	1165.00	20	1145.0	115.0	1050.0	SH	178	987.0
T65-6	2620205.80	508225.62	1172.00	20	1152.0	117.0	1055.0	SS	218	954.0
T65-7	2615509.47	506517.16	1170.00	20	1150.0	112.0	1058.0	SH	190	980.0
T65-8	2613969.03	502655.46	1165.00	20	1145.0	101.0	1064.0	SH	155	1010.0

Table 2-2
Elevation of Top of Bedrock and Base of Loess/Overbank Fines
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Boring Name	Easting (NAD 83)	Northing (NAD 83)	Ground Surface Elev. (ft NAVD 88)	Thickness of Loess or Overbank Fines (ft)	Bottom Elev. of Loess or Overbank Fines (ft NAVD 88)	Top of Omadi Depth (ft bgs)	Top of Omadi Elevation (ft NAVD 88)	First Encountered Bedrock Type	Top of Pennsylvanian (ft bgs)	Pennsylvanian Bedrock Elevation (ft NAVD 88)
T65-9	2609443.86	505760.23	1174.00	20	1154.0	145.0	1029.0	SH	NA	NA
T66-1	2628038.62	505824.10	1143.00	15	1128.0	106.0	1037.0	SS	NA	NA
T66-2	2619471.49	505721.64	1155.00	10	1145.0	100.0	1055.0	SS	NA	NA
T66-3	2625686.96	502960.28	1150.40	15	1135.4	100.0	1050.4	SS	NA	NA
T66-4	2628170.10	500247.72	1140.00	15	1125.0	95.0	1045.0	SS	170	970.0
T66-5	2626925.48	505506.53	1152.00	20	1132.0	75.0	1077.0	SS	166.5	985.5
T66-6	2626916.79	506167.16	1156.00	15	1141.0	70.0	1086.0	SS	169	987.0
T66-7	2626912.58	506846.99	1159.00	10	1149.0	70.0	1089.0	SS	175	984.0
T66-8	2627973.64	506821.98	1149.00	20	1129.0	100.0	1049.0	SS	155	994.0
T66-9	2628116.46	504554.84	1144.00	15	1129.0	95.0	1049.0	SS	166	978.0
T67-2	2609377.72	497061.56	1179.00	20	1159.0	148.0	1031.0	SS	NA	NA
T68-1	2612322.08	505927.82	1170.00	20	1150.0	120.0	1050.0	SS	166	1004.0
T70-2	2616474.34	498924.65	1160.00	15	1145.0	100.0	1060.0	SS	173.5	986.5
T70-3	2616190.90	510800.51	1170.00	18	1152.0	105.0	1065.0	SS	192	978.0
T70-4	2607864.27	510157.24	1175.00	20	1155.0	103.0	1072.0	SH	212	963.0
T70-5	2603321.25	509671.98	1175.00	15	1160.0	132.0	1043.0	SH	200	975.0
TH-BR-01	2612574.97	493138.34	1131.55	4	1127.6	104.5	1027.1	SS	221	910.6
TH-BR-02	2610308.27	500802.68	1165.47	18.9	1146.6	140.0	1025.5	SS	162	1003.5
TH-BR-03	2621689.73	507226.21	1161.32	12.5	1148.8	103.5	1057.8	SS	173	988.3
TH-BR-04	2624291.27	497783.61	1148.43	14	1134.4	104.0	1044.4	SS	182	966.4
TH-BR-05	2634898.40	494037.75	1072.01	28.8	1043.2	38.5	1033.5	SS	121	951.0
TH-EW-12	2610738.32	493102.14	1105.17	15	1090.2	90.5	1014.7	SH	NA	NA
TH-EW-13	2611511.12	493072.65	1108.85	10	1098.9	84.0	1024.9	SH	NA	NA
TH-EW-14R1	2625268.99	498721.42	1154.02	20	1134.0	103.0	1051.0	SS	NA	NA
TH-EW-14R2	2625871.91	497850.00	1147.74	17	1130.7	105.0	1042.7	SS	NA	NA
TH-EW-15	2622870.43	509960.21	1168.34	17.5	1150.8	NA	NA	NA	NA	NA
TH-EW-16	2628310.33	496736.54	1144.38	17	1127.4	99.0	1045.4	SS	NA	NA
TH-EW-17	2611500.55	493522.80	1114.03	8	1106.0	90.5	1023.5	SS	NA	NA
WS-10A	2606789.63	503324.48	1164.00	12	1152.0	122.0	1042.0	SH	NA	NA
WS-1A	2603874.66	522022.85	1201.00	16	1185.0	126.0	1075.0	SH	NA	NA
WS-4A	2607619.39	522715.60	1197.00	20	1177.0	123.0	1074.0	SS	NA	NA
WS51-1A	2626926.07	504667.52	1149.00	16.6	1132.4	95.0	1054.0	SS	NA	NA
WS-9A	2613493.88	510434.08	1176.00	18	1158.0	108.0	1068.0	SH	NA	NA

Registered Groundwater Wells G-## (Nebraska Department of Natural Resources, 2012) http://dnrdata.dnr.ne.gov/wellscs/Menu.aspx
This list was updated during the 2012 GWMUpdate, some bedrock elevations were updated based upon detailed review of DNR logs

Notes: Ground surface elevation estimated from topography map (Figure 2-1)
NA - Information Not Available
SS - Sandstone
SH - Shale
NAD 83 - North American Datum of 1983
NAVD 88 - North American Vertical Datum of 1988
ft - Feet
bgs - Below Ground Surface
LL - Load Line
PTMW - Pilot Test Monitoring Well
SB - Soil Boring
EW - Extraction Well
FEW - Focused Extraction Well
MW - Monitoring Well
OW - Observation Well
PZ - Piezometer Well
TH-EW - Test Hole Extraction Well
TH-BR - Test Hole Bedrock
This list does not include all wells in the NDNR database because of duplicate wells with conflicting logs
Source for Pilot Test Well Data: "Load Line 1 Focused Extraction Pilot Test Summary and
Analysis Report Operable Unit No. 2 Former Nebraska Ordnance Plant Mead, Nebraska"
Brown & Caldwell, March 15, 2013

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Table 2-3
Groundwater Elevations March 2011 through October 2012
2012 Groundwater Model Update
Former Nebraska Ordnance Plant

Location Identification	Zone Designation	Top of Casing Elevation (fteet AMSL)	Date	Groundwater Elevation (ft AMSL) March 2011	Date	Groundwater Elevation (ft AMSL) August 2011	Date	Groundwater Elevation (ft AMSL) October 2011	Date	Groundwater Elevation (ft AMSL) March 2012	Date	Groundwater Elevation (ft AMSL) August 2012	Date	Groundwater Elevation (ft AMSL) October 2012
EW-1		1079.43	3/29/11	1069.00	8/26/11	1068.60	10/28/11	NM	3/29/12	1068.60	8/27/12	1066.20	10/30/12	NM
EW-3		1150.01	3/29/11	1080.80	8/26/11	1080.10	10/28/11	NM	3/29/12	1080.10	8/27/12	1079.40	10/30/12	NM
EW-4		1148.68	3/29/11	1067.40	8/26/11	1065.80	10/28/11	NM	3/29/12	1065.80	8/27/12	1065.30	10/30/12	NM
EW-6		1147.98	3/29/11	1091.60	8/26/11	1092.00	10/28/11	NM	3/29/12	1092.00	8/27/12	1091.40	10/30/12	NM
EW-7		1148.38	3/29/11	1077.70	8/26/11	1077.10	10/28/11	NM	3/29/12	1077.10	8/27/12	1076.20	10/30/12	NM
EW-9		1154.67	3/29/11	1080.80	8/26/11	1082.70	10/28/11	NM	3/29/12	1082.70	8/27/12	1081.90	10/30/12	NM
EW-10		1150.64	3/29/11	1100.30	8/26/11	1101.10	10/28/11	NM	3/29/12	1101.10	8/27/12	1100.60	10/30/12	NM
FEW-11		1162.77	3/29/11	1096.80	8/26/11	1096.90	10/28/11	NM	3/29/12	1096.90	8/27/12	1096.60	10/30/12	NM
EW-12		1113.72	3/29/11	1043.69	8/26/11	1032.56	10/28/11	NM	3/29/12	1032.56	8/27/12	NM	10/30/12	NM
FEW-14		1155.99	3/29/11	1075.40	8/26/11	1076.40	10/28/11	NM	3/29/12	1076.40	8/27/12	1075.20	10/30/12	NM
FEW-15		1169.64	NM	1110.50	8/26/11	1119.20	10/28/11	NM	3/29/12	1119.20	8/27/12	1118.80	10/30/12	NM
EW-16		1146.97	3/29/11	1079.50	8/26/11	1079.20	10/28/11	NM	3/29/12	1079.20	8/27/12	1078.50	10/30/12	NM
MW-02A	Intermediate	1174.77	3/29/11	1135.41	8/26/11	1135.88	10/28/11	NM	3/29/12	1135.56	8/27/12	1135.09	10/30/12	NM
MW-02B	Shallow	1175.18	3/29/11	1135.42	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-03A	Intermediate	1177.06	3/29/11	1134.50	8/26/11	1134.71	10/28/11	NM	3/29/12	1135.68	8/27/12	1133.91	10/30/12	NM
MW-03B	Shallow	1177.23	3/29/11	1134.57	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-04A	Intermediate	1168.73	3/29/11	1132.77	8/26/11	1132.98	10/28/11	NM	3/29/12	1133.60	8/27/12	1131.88	10/30/12	NM
MW-04B	Shallow	1168.85	3/29/11	1132.74	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-05A	Intermediate	1168.12	3/29/11	1133.93	8/26/11	1134.50	10/28/11	NM	3/29/12	1134.81	8/27/12	1133.92	10/30/12	NM
MW-05B	Shallow	1168.18	3/29/11	1133.83	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-07A	Intermediate	1164.85	3/29/11	1127.36	8/26/11	1127.39	10/28/11	NM	3/29/12	1128.01	8/27/12	1126.54	10/30/12	NM
MW-07B	Shallow	1164.64	3/29/11	1127.39	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-08A	Intermediate	1165.92	3/29/11	1119.34	8/26/11	1119.15	10/28/11	NM	3/29/12	1119.35	8/27/12	1117.39	10/30/12	NM
MW-08B	Shallow	1165.92	3/29/11	1119.35	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-09A	Intermediate	1171.46	3/29/11	1119.67	8/26/11	1119.62	10/28/11	NM	3/29/12	1119.59	8/27/12	1117.65	10/30/12	NM
MW-09B	Shallow	1171.60	3/29/11	1119.88	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-09D	Deep	1171.28	3/29/11	1119.75	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-10A	Intermediate	1150.35	3/29/11	1110.72	8/26/11	1110.87	10/28/11	NM	3/29/12	1110.82	8/27/12	1109.22	10/30/12	NM
MW-10B	Shallow	1150.31	3/29/11	1110.74	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-11	Intermediate	1153.22	3/29/11	1125.03	8/26/11	1124.74	10/28/11	NM	3/29/12	1123.91	8/27/12	1121.63	10/30/12	NM
MW-16B	Intermediate	1188.68	3/29/11	1155.77	8/26/11	1156.47	10/28/11	NM	3/29/12	1157.28	8/27/12	1155.37	10/30/12	NM
MW-16C	Shallow	1189.40	3/29/11	1155.74	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-17B	Intermediate	1128.50	3/29/11	1121.00	8/26/11	1121.09	10/28/11	NM	3/29/12	1121.08	8/27/12	1120.72	10/30/12	NM
MW-18A	Deep	1145.43	3/29/11	1104.08	8/26/11	1103.38	10/28/11	1103.07	3/29/12	1103.43	8/27/12	1100.30	10/30/12	1100.82
MW-18B	Intermediate	1145.57	3/29/11	1103.75	8/26/11	1103.04	10/28/11	NM	3/29/12	1103.09	8/27/12	1099.96	10/30/12	NM
MW-18C	Shallow	1146.05	3/29/11	1106.81	8/26/11	1106.67	10/28/11	NM	3/29/12	1106.05	8/27/12	1104.12	10/30/12	NM
MW-19B	Intermediate	1158.59	3/29/11	1148.62	8/26/11	1149.43	10/28/11	NM	3/29/12	1149.79	8/27/12	1147.85	10/30/12	NM
MW-20A	Deep	1160.42	3/29/11	1101.13	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-20B	Intermediate	1160.29	3/29/11	1101.14	8/26/11	1101.52	10/28/11	NM	3/29/12	1101.68	8/27/12	1100.74	10/30/12	NM
MW-20C	Shallow	1160.29	3/29/11	1102.88	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-21A	Intermediate	1165.63	3/29/11	1129.73	8/26/11	1130.37	10/28/11	NM	3/29/12	1130.74	8/27/12	1129.70	10/30/12	NM
MW-21B	Shallow	1165.59	3/29/11	1129.67	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-21D	Deep	1165.57	3/29/11	1129.65	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-22B	Shallow	1176.67	3/29/11	1146.16	8/26/11	1147.34	10/28/11	NM	3/29/12	1147.59	8/27/12	1146.86	10/30/12	NM
MW-24A	Intermediate	1163.41	3/29/11	1122.64	8/26/11	1123.25	10/28/11	NM	3/29/12	1123.50	8/27/12	1123.09	10/30/12	NM
MW-24B	Deep	1163.46	3/29/11	1122.92	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM

Table 2-3
Groundwater Elevations March 2011 through October 2012
2012 Groundwater Model Update
Former Nebraska Ordnance Plant

Location Identification	Zone Designation	Top of Casing Elevation (fteet AMSL)	Date	Groundwater Elevation (ft AMSL) March 2011	Date	Groundwater Elevation (ft AMSL) August 2011	Date	Groundwater Elevation (ft AMSL) October 2011	Date	Groundwater Elevation (ft AMSL) March 2012	Date	Groundwater Elevation (ft AMSL) August 2012	Date	Groundwater Elevation (ft AMSL) October 2012
MW-25A	Intermediate	1175.25	3/29/11	1131.15	8/26/11	1131.28	10/28/11	NM	3/29/12	1132.19	8/27/12	1130.32	10/30/12	NM
MW-25B	Shallow	1174.71	3/29/11	1131.20	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-25D	Deep	1175.46	3/29/11	1131.04	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-27B	Shallow	1176.06	3/29/11	1138.23	8/26/11	NM	10/28/11	NM	3/29/12	1139.22	8/27/12	1138.18	10/30/12	NM
MW-28A	Intermediate	1172.22	3/29/11	1121.66	8/26/11	1121.85	10/28/11	NM	3/29/12	1122.40	8/27/12	1121.35	10/30/12	NM
MW-28B	Shallow	1172.52	3/29/11	1121.39	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-28D	Deep	1171.99	3/29/11	1121.65	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-29A	Intermediate	1160.06	3/29/11	1110.68	8/26/11	1111.04	10/28/11	NM	3/29/12	1111.31	8/27/12	1110.75	10/30/12	NM
MW-29B	Shallow	1161.03	3/29/11	1110.71	8/26/11	1111.15	10/28/11	NM	3/29/12	1111.16	8/27/12	1110.79	10/30/12	NM
MW-31A	Intermediate	1167.38	3/29/11	1119.20	8/26/11	1119.35	10/28/11	NM	3/29/12	1119.92	8/27/12	1118.94	10/30/12	NM
MW-31B	Shallow	1166.95	3/29/11	1118.62	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-32A	Intermediate	1154.17	3/29/11	1105.54	8/26/11	1106.10	10/28/11	NM	3/29/12	1106.32	8/27/12	1106.14	10/30/12	NM
MW-32B	Shallow	1154.10	3/29/11	1105.53	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-32D	Deep	1154.02	3/29/11	1105.50	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-33A	Intermediate	1160.32	3/29/11	1108.99	8/26/11	1109.10	10/28/11	NM	3/29/12	1109.40	8/27/12	1108.47	10/30/12	NM
MW-33B	Shallow	1160.37	3/29/11	1109.01	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-33D	Deep	1160.24	3/29/11	1109.14	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-34A	Intermediate	1156.79	3/29/11	1097.18	8/26/11	1097.68	10/28/11	1097.65	3/29/12	1097.70	8/27/12	1097.20	10/30/12	1096.94
MW-34B	Shallow	1157.00	3/29/11	1097.15	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-34D	Deep	1156.73	3/29/11	1097.13	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-35A	Intermediate	1139.81	3/29/11	1085.80	8/26/11	1085.61	10/28/11	1085.58	3/29/12	1085.62	8/27/12	1084.62	10/30/12	1084.41
MW-35B	Shallow	1139.57	3/29/11	1085.76	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-35D	Deep	1139.67	3/29/11	1085.83	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-38A	Intermediate	1082.32	3/29/11	1076.39	8/26/11	1075.69	10/28/11	1074.95	3/29/12	1075.96	8/27/12	1073.01	10/30/12	1073.83
MW-38D	Deep	1081.92	3/29/11	1076.45	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-39A	Intermediate	1082.82	3/29/11	1079.01	8/26/11	1078.15	10/28/11	1077.31	3/29/12	1078.50	8/27/12	1075.51	10/30/12	1075.91
MW-39D	Deep	1082.95	3/29/11	1079.06	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-40A	Intermediate	1172.09	3/29/11	1131.53	8/26/11	1131.85	10/28/11	NM	3/29/12	1131.30	8/27/12	1130.25	10/30/12	NM
MW-40B	Shallow	1172.34	3/29/11	1131.09	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-41A	Intermediate	1168.63	3/29/11	1130.64	8/26/11	1131.19	10/28/11	1130.79	3/29/12	1130.38	8/27/12	1127.81	10/30/12	1128.20
MW-41B	Shallow	1168.68	3/29/11	1130.64	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-41D	Deep	1168.61	3/29/11	1130.61	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-42A	Intermediate	1146.53	3/29/11	1095.25	8/26/11	1094.91	10/28/11	1094.88	3/29/12	1094.76	8/27/12	1092.68	10/30/12	1092.66
MW-42B	Shallow	1146.64	3/29/11	1095.28	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-42D	Deep	1146.20	3/29/11	1095.13	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-43A	Intermediate	1142.90	3/29/11	1099.15	8/26/11	1100.62	10/28/11	1098.68	3/29/12	1098.56	8/27/12	1095.96	10/30/12	1096.19
MW-43B	Shallow	1142.74	3/29/11	1099.15	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-43D	Deep	1142.95	3/29/11	1099.15	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-44A	Intermediate	1093.66	3/29/11	1084.54	8/26/11	1084.48	10/28/11	1084.45	3/29/12	1084.43	8/27/12	1082.86	10/30/12	1083.22
MW-44B	Shallow	1094.14	3/29/11	1084.09	8/26/11	1083.68	10/28/11	NM	3/29/12	1083.73	8/27/12	1080.53	10/30/12	NM
MW-44D	Deep	1092.43	3/29/11	1084.53	8/26/11	1084.48	10/28/11	NM	3/29/12	1084.42	8/27/12	1082.87	10/30/12	NM
MW-46A	Intermediate	1082.70	3/29/11	1078.86	8/26/11	1078.05	10/28/11	1077.70	3/29/12	1078.55	8/27/12	1075.72	10/30/12	1076.42
MW-46B	Shallow	1082.81	3/29/11	1078.88	8/26/11	1078.05	10/28/11	NM	3/29/12	1078.57	8/27/12	1075.73	10/30/12	NM
MW-46D	Deep	1082.65	3/29/11	1078.88	8/26/11	1077.97	10/28/11	NM	3/29/12	1078.57	8/27/12	1075.83	10/30/12	NM
MW-52A	Intermediate	1155.22	3/29/11	1119.18	8/26/11	1118.92	10/28/11	NM	3/29/12	1118.02	8/27/12	1116.52	10/30/12	NM
MW-52B	Shallow	1155.65	3/29/11	1119.12	8/26/11	1118.78	10/28/11	NM	3/29/12	1117.86	8/27/12	1116.42	10/30/12	NM

Table 2-3
Groundwater Elevations March 2011 through October 2012
2012 Groundwater Model Update
Former Nebraska Ordnance Plant

Location Identification	Zone Designation	Top of Casing Elevation (fteet AMSL)	Date	Groundwater Elevation (ft AMSL) March 2011	Date	Groundwater Elevation (ft AMSL) August 2011	Date	Groundwater Elevation (ft AMSL) October 2011	Date	Groundwater Elevation (ft AMSL) March 2012	Date	Groundwater Elevation (ft AMSL) August 2012	Date	Groundwater Elevation (ft AMSL) October 2012
MW-53A	Intermediate	1136.36	3/29/11	1110.70	8/26/11	1110.13	10/28/11	NM	3/29/12	1109.96	8/27/12	1107.13	10/30/12	NM
MW-53B	Shallow	1136.91	3/29/11	1112.52	8/26/11	1112.59	10/28/11	NM	3/29/12	1111.87	8/27/12	1110.94	10/30/12	NM
MW-54A	Intermediate	1121.58	3/29/11	1112.65	8/26/11	1112.11	10/28/11	NM	3/29/12	1111.81	8/27/12	1109.00	10/30/12	NM
MW-54B	Shallow	1121.59	3/29/11	1115.06	8/26/11	1114.79	10/28/11	NM	3/29/12	1114.23	8/27/12	1112.27	10/30/12	NM
MW-55A	Intermediate	1126.49	3/29/11	1110.81	8/26/11	1110.21	10/28/11	NM	3/29/12	1110.03	8/27/12	1107.13	10/30/12	NM
MW-55B	Shallow	1127.27	3/29/11	1111.07	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-56A	Intermediate	1125.96	3/29/11	1110.16	8/26/11	1109.54	10/28/11	NM	3/29/12	1109.39	8/27/12	1106.48	10/30/12	NM
MW-56B	Shallow	1126.24	3/29/11	1111.75	8/26/11	1111.90	10/28/11	NM	3/29/12	1110.16	8/27/12	1110.26	10/30/12	NM
MW-57B	Shallow	1196.27	3/29/11	1159.09	8/26/11	1159.46	10/28/11	NM	3/29/12	1160.55	8/27/12	1158.92	10/30/12	NM
MW-60A	Intermediate	1145.83	3/29/11	1092.83	8/26/11	1092.55	10/28/11	1092.62	3/29/12	1092.72	8/27/12	1086.28	10/30/12	1091.00
MW-61A	Intermediate	1108.96	3/29/11	1102.72	8/26/11	1102.78	10/28/11	NM	3/29/12	1102.59	8/27/12	1100.96	10/30/12	NM
MW-61B	Shallow	1108.96	3/29/11	1102.67	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-61D	Deep	1108.96	3/29/11	1102.96	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-65A	Intermediate	1165.02	3/29/11	1131.69	8/26/11	1132.12	10/28/11	NM	3/29/12	1132.47	8/27/12	1131.27	10/30/12	NM
MW-65B	Shallow	1165.01	3/29/11	1131.63	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-66B	Shallow	1163.08	3/29/11	1130.50	8/26/11	1131.10	10/28/11	NM	3/29/12	1131.27	8/27/12	1130.11	10/30/12	NM
MW-71B	Shallow	1166.34	3/29/11	1131.45	8/26/11	1131.93	10/28/11	NM	3/29/12	1132.28	8/27/12	1131.17	10/30/12	NM
MW-72A	Intermediate	1170.37	3/29/11	1130.78	8/26/11	1131.46	10/28/11	NM	3/29/12	1130.94	8/27/12	1129.94	10/30/12	NM
MW-72B	Shallow	1169.92	3/29/11	1130.79	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-73A	Intermediate	1166.95	3/29/11	1130.42	8/26/11	1131.00	10/28/11	NM	3/29/12	1130.44	8/27/12	1129.37	10/30/12	NM
MW-73B	Shallow	1166.90	3/29/11	1130.37	8/26/11	1131.00	10/28/11	NM	3/29/12	1130.39	8/27/12	1129.38	10/30/12	NM
MW-74A	Intermediate	1166.94	3/29/11	1130.43	8/26/11	NM	10/28/11	NM	3/29/12	1130.40	8/27/12	1129.42	10/30/12	NM
MW-74B	Shallow	1167.04	3/29/11	1130.30	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-75A	Intermediate	1167.13	3/29/11	1130.36	8/26/11	1131.02	10/28/11	NM	3/29/12	1130.46	8/27/12	1129.43	10/30/12	NM
MW-75B	Shallow	1167.30	3/29/11	1130.66	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-76A	Intermediate	1166.24	3/29/11	1130.39	8/26/11	1131.07	10/28/11	NM	3/29/12	1130.50	8/27/12	1129.46	10/30/12	NM
MW-76B	Shallow	1166.48	3/29/11	1130.43	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-77A	Intermediate	1165.73	3/29/11	1130.40	8/26/11	1131.08	10/28/11	NM	3/29/12	1130.50	8/27/12	1129.37	10/30/12	NM
MW-77B	Shallow	1165.79	3/29/11	1130.44	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-78A	Intermediate	1165.27	3/29/11	1130.47	8/26/11	1131.16	10/28/11	NM	3/29/12	1130.58	8/27/12	1129.53	10/30/12	NM
MW-78B	Shallow	1165.35	3/29/11	1130.47	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-79A	Intermediate	1109.34	3/29/11	1100.15	8/26/11	1100.38	10/28/11	NM	3/29/12	1100.06	8/27/12	1098.74	10/30/12	NM
MW-79B	Shallow	1109.39	3/29/11	1100.13	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-80A	Intermediate	1107.43	3/29/11	1099.95	8/26/11	1100.13	10/28/11	NM	3/29/12	1099.88	8/27/12	1098.53	10/30/12	NM
MW-80B	Shallow	1107.65	3/29/11	1099.88	8/26/11	1100.09	10/28/11	NM	3/29/12	1099.81	8/27/12	1098.50	10/30/12	NM
MW-80D	Deep	1107.40	3/29/11	1099.97	8/26/11	1100.20	10/28/11	NM	3/29/12	1099.93	8/27/12	1098.56	10/30/12	NM
MW-81A	Intermediate	1108.48	3/29/11	1100.24	8/26/11	1100.54	10/28/11	NM	3/29/12	1100.22	8/27/12	1099.03	10/30/12	NM
MW-81B	Shallow	1108.47	3/29/11	1100.13	8/26/11	1100.42	10/28/11	NM	3/29/12	1100.08	8/27/12	1098.85	10/30/12	NM
MW-81D	Deep	1108.53	3/29/11	1100.37	8/26/11	1100.63	10/28/11	NM	3/29/12	1100.37	8/27/12	1099.03	10/30/12	NM
MW-82A	Intermediate	1149.14	3/29/11	1099.41	8/26/11	1099.99	10/28/11	NM	3/29/12	1100.18	8/27/12	1099.19	10/30/12	NM
MW-82B	Shallow	1149.12	3/29/11	1099.45	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-82D	Deep	1149.22	3/29/11	1098.94	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-83A	Intermediate	1152.41	3/29/11	1096.22	8/26/11	1097.21	10/28/11	NM	3/29/12	1097.13	8/27/12	1096.62	10/30/12	NM
MW-83B	Shallow	1152.28	3/29/11	1096.09	8/26/11	1097.27	10/28/11	NM	3/29/12	1097.17	8/27/12	1096.68	10/30/12	NM
MW-83D	Deep	1152.32	3/29/11	1096.18	8/26/11	1097.16	10/28/11	NM	3/29/12	1097.08	8/27/12	1096.58	10/30/12	NM
MW-84A	Intermediate	1145.34	3/29/11	1094.65	8/26/11	1095.36	10/28/11	NM	3/29/12	1095.18	8/27/12	1094.65	10/30/12	NM

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Location Identification	Zone Designation	Top of Casing Elevation (fteet AMSL)	Date	Groundwater Elevation (ft AMSL) March 2011	Date	Groundwater Elevation (ft AMSL) August 2011	Date	Groundwater Elevation (ft AMSL) October 2011	Date	Groundwater Elevation (ft AMSL) March 2012	Date	Groundwater Elevation (ft AMSL) August 2012	Date	Groundwater Elevation (ft AMSL) October 2012
MW-84B	Shallow	1145.62	3/29/11	1095.08	8/26/11	1095.82	10/28/11	NM	3/29/12	1095.62	8/27/12	1095.14	10/30/12	NM
MW-84D	Deep	1145.37	3/29/11	1094.47	8/26/11	1095.21	10/28/11	NM	3/29/12	1094.99	8/27/12	1094.47	10/30/12	NM
MW-85A	Intermediate	1132.58	3/29/11	1088.33	8/26/11	1088.32	10/28/11	NM	3/29/12	1088.34	8/27/12	1083.50	10/30/12	NM
MW-85B	Shallow	1132.39	3/29/11	1088.34	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-85D	Deep	1132.59	3/29/11	1088.35	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-86A	Intermediate	1114.15	3/29/11	1082.18	8/26/11	1081.72	10/28/11	NM	3/29/12	1082.04	8/27/12	1080.39	10/30/12	NM
MW-86B	Shallow	1114.58	3/29/11	1082.22	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-86D	Deep	1113.90	3/29/11	1082.19	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-87A	Intermediate	1078.38	3/29/11	1074.26	8/26/11	1074.03	10/28/11	1073.67	3/29/12	1074.18	8/27/12	NM	10/30/12	1072.66
MW-87B	Shallow	1078.38	3/29/11	1074.30	8/26/11	1073.98	10/28/11	NM	3/29/12	1074.15	8/27/12	NM	10/30/12	NM
MW-87D	Deep	1078.39	3/29/11	1074.23	8/26/11	1073.98	10/28/11	NM	3/29/12	1074.14	8/27/12	NM	10/30/12	NM
MW-88A	Intermediate	1081.22	3/29/11	1075.53	8/26/11	1074.81	10/28/11	NM	3/29/12	1075.06	8/27/12	1071.97	10/30/12	NM
MW-88B	Shallow	1081.27	3/29/11	1075.52	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-88D	Deep	1081.30	3/29/11	1075.44	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-89A	Intermediate	1160.99	3/29/11	1105.06	8/26/11	1105.38	10/28/11	NM	3/29/12	1105.15	8/27/12	1103.74	10/30/12	NM
MW-89B	Shallow	1161.37	3/29/11	1104.89	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-89D	Deep	1160.65	3/29/11	1105.14	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-90A	Intermediate	1151.11	3/29/11	1105.89	8/26/11	1106.18	10/28/11	NM	3/29/12	1106.06	8/27/12	1104.39	10/30/12	NM
MW-90B	Shallow	1150.77	3/29/11	1105.41	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-90D	Deep	1151.44	3/29/11	1105.69	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-91A	Intermediate	1152.04	3/29/11	1105.77	8/26/11	1106.09	10/28/11	NM	3/29/12	1106.00	8/27/12	1104.52	10/30/12	NM
MW-91B	Shallow	1151.87	3/29/11	1105.59	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-91D	Deep	1151.95	3/29/11	1105.75	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-92A	Intermediate	1108.78	3/29/11	1100.67	8/26/11	1100.88	10/28/11	NM	3/29/12	1100.57	8/27/12	1099.21	10/30/12	NM
MW-92B	Shallow	1108.65	3/29/11	1100.79	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-93A	Intermediate	1124.26	3/29/11	1104.41	8/26/11	1104.74	10/28/11	NM	3/29/12	1104.59	8/27/12	1103.61	10/30/12	NM
MW-93B	Shallow	1123.90	3/29/11	1104.38	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-94A	Intermediate	1153.06	3/29/11	1104.64	8/26/11	1105.26	10/28/11	NM	3/29/12	1105.47	8/27/12	1104.98	10/30/12	NM
MW-94B	Shallow	1153.09	3/29/11	1104.69	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-94D	Deep	1153.25	3/29/11	1104.23	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-95A	Intermediate	1156.81	3/29/11	1102.51	8/26/11	1103.11	10/28/11	NM	3/29/12	1103.28	8/27/12	1102.83	10/30/12	NM
MW-95B	Shallow	1156.46	3/29/11	1102.51	8/26/11	1103.11	10/28/11	NM	3/29/12	1103.30	8/27/12	1102.83	10/30/12	NM
MW-95D	Deep	1156.82	3/29/11	1101.47	8/26/11	1102.00	10/28/11	NM	3/29/12	1102.14	8/27/12	1101.34	10/30/12	NM
MW-96A	Intermediate	1148.56	3/29/11	1096.73	8/26/11	1097.25	10/28/11	NM	3/29/12	1097.47	8/27/12	1096.61	10/30/12	NM
MW-96B	Shallow	1148.56	3/29/11	1096.73	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-96D	Deep	1148.58	3/29/11	1096.73	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-97A	Intermediate	1143.08	3/29/11	1094.20	8/26/11	1094.71	10/28/11	NM	3/29/12	1094.79	8/27/12	1094.03	10/30/12	NM
MW-97B	Shallow	1143.18	3/29/11	1094.39	8/26/11	1094.73	10/28/11	NM	3/29/12	1094.83	8/27/12	1093.63	10/30/12	NM
MW-97D	Deep	1143.18	3/29/11	1094.34	8/26/11	1094.68	10/28/11	NM	3/29/12	1094.77	8/27/12	1093.53	10/30/12	NM
MW-98A	Intermediate	1141.52	3/29/11	1091.69	8/26/11	1091.90	10/28/11	NM	3/29/12	1091.85	8/27/12	1090.52	10/30/12	NM
MW-98B	Shallow	1141.58	3/29/11	1091.78	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-98D	Deep	1141.58	3/29/11	1091.68	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-99A	Intermediate	1163.04	3/29/11	1093.14	8/26/11	1093.16	10/28/11	NM	3/29/12	1093.09	8/27/12	1092.54	10/30/12	NM
MW-99B	Shallow	1163.19	3/29/11	1093.13	8/26/11	1093.14	10/28/11	NM	3/29/12	1093.10	8/27/12	1092.51	10/30/12	NM
MW-99D	Deep	1162.76	3/29/11	1093.01	8/26/11	1093.11	10/28/11	NM	3/29/12	1093.05	8/27/12	1092.46	10/30/12	NM
MW-100A	Intermediate	1141.18	3/29/11	1086.28	8/26/11	1086.21	10/28/11	NM	3/29/12	1086.26	8/27/12	1085.09	10/30/12	NM

Table 2-3
Groundwater Elevations March 2011 through October 2012
2012 Groundwater Model Update
Former Nebraska Ordnance Plant

Location Identification	Zone Designation	Top of Casing Elevation (fteet AMSL)	Date	Groundwater Elevation (ft AMSL) March 2011	Date	Groundwater Elevation (ft AMSL) August 2011	Date	Groundwater Elevation (ft AMSL) October 2011	Date	Groundwater Elevation (ft AMSL) March 2012	Date	Groundwater Elevation (ft AMSL) August 2012	Date	Groundwater Elevation (ft AMSL) October 2012
MW-100B	Shallow	1141.12	3/29/11	1086.27	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-100D	Deep	1141.22	3/29/11	1086.37	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-101A	Intermediate	1107.43	3/29/11	1099.61	8/26/11	1099.81	10/28/11	NM	3/29/12	1099.55	8/27/12	1098.13	10/30/12	NM
MW-101B	Shallow	1107.44	3/29/11	1099.62	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-101D	Deep	1107.45	3/29/11	1099.65	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-102A	Intermediate	1170.90	3/29/11	1136.46	8/26/11	1137.03	10/28/11	NM	3/29/12	1136.70	8/27/12	1135.68	10/30/12	NM
MW-102B	Shallow	1171.13	3/29/11	1135.75	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-102D	Deep	1171.08	3/29/11	1136.66	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-103A	Intermediate	1173.58	3/29/11	1132.59	8/26/11	1133.24	10/28/11	NM	3/29/12	1132.68	8/27/12	1131.56	10/30/12	NM
MW-103B	Shallow	1173.80	3/29/11	1133.01	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-103D	Deep	1173.22	3/29/11	1132.59	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-104A	Intermediate	1081.26	3/29/11	1078.57	8/26/11	1078.48	10/28/11	1078.52	3/29/12	1078.77	8/27/12	1077.26	10/30/12	1077.75
MW-104B	Shallow	1081.27	3/29/11	1078.55	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-104D	Deep	1081.87	3/29/11	1078.61	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-104O	Overburden	1081.69	3/29/11	1077.07	8/26/11	1077.65	10/28/11	NM	3/29/12	1077.91	8/27/12	1076.57	10/30/12	NM
MW-105A	Intermediate	1079.60	3/29/11	1075.89	8/26/11	1075.45	10/28/11	1075.24	3/29/12	1075.73	8/27/12	1073.69	10/30/12	NM
MW-105B	Shallow	1079.77	3/29/11	1075.89	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-105O	Overburden	1080.04	3/29/11	1071.60	8/26/11	1071.65	10/28/11	NM	3/29/12	1072.13	8/27/12	1070.68	10/30/12	NM
MW-106A	Intermediate	1118.06	3/29/11	1101.25	8/26/11	1100.80	10/28/11	NM	3/29/12	1100.64	8/27/12	1096.77	10/30/12	NM
MW-106B	Shallow	1117.98	3/29/11	1101.42	8/26/11	1100.73	10/28/11	NM	3/29/12	1100.70	8/27/12	1097.54	10/30/12	NM
MW-106D	Deep	1118.18	3/29/11	1101.10	8/26/11	1100.10	10/28/11	NM	3/29/12	1100.50	8/27/12	1096.54	10/30/12	NM
MW-107A	Intermediate	1135.79	3/29/11	1097.38	8/26/11	1096.36	10/28/11	NM	3/29/12	1096.87	8/27/12	1092.53	10/30/12	NM
MW-107B	Shallow	1136.72	3/29/11	1097.64	8/26/11	1097.33	10/28/11	NM	3/29/12	1096.88	8/27/12	1095.63	10/30/12	NM
MW-107D	Deep	1136.35	3/29/11	1097.36	8/26/11	1096.36	10/28/11	NM	3/29/12	1096.85	8/27/12	1092.54	10/30/12	NM
MW-108A	Intermediate	1126.74	3/29/11	1096.28	8/26/11	1095.23	10/28/11	NM	3/29/12	1096.75	8/27/12	1091.36	10/30/12	NM
MW-108B	Shallow	1126.98	3/29/11	1096.72	8/26/11	1096.39	10/28/11	NM	3/29/12	1095.97	8/27/12	1094.52	10/30/12	NM
MW-108D	Deep	1126.87	3/29/11	1096.28	8/26/11	1096.23	10/28/11	NM	3/29/12	1095.76	8/27/12	1091.32	10/30/12	NM
MW-109A	Intermediate	1086.25	3/29/11	1084.12	8/26/11	1083.44	10/28/11	NM	3/29/12	1083.88	8/27/12	1081.11	10/30/12	NM
MW-109B	Shallow	1085.98	3/29/11	1084.12	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-109O	Overburden	1085.88	3/29/11	1079.81	8/26/11	1078.76	10/28/11	NM	3/29/12	1080.00	8/27/12	1080.04	10/30/12	NM
MW-110A	Intermediate	1094.10	3/29/11	1088.62	8/26/11	1087.71	10/28/11	NM	3/29/12	1088.31	8/27/12	1084.64	10/30/12	NM
MW-110B	Shallow	1094.49	3/29/11	1088.68	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-110D	Deep	1094.36	3/29/11	1088.66	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-111A	Intermediate	1082.82	3/29/11	1078.81	8/26/11	1078.14	10/28/11	NM	3/29/12	1078.60	8/27/12	1076.07	10/30/12	NM
MW-111B	Shallow	1082.61	3/29/11	1078.85	8/26/11	1078.19	10/28/11	NM	3/29/12	1078.62	8/27/12	1076.14	10/30/12	NM
MW-111O	Overburden	1082.48	3/29/11	1077.06	8/26/11	1075.37	10/28/11	NM	3/29/12	1076.79	8/27/12	NM	10/30/12	NM
MW-112A	Intermediate	1082.03	3/29/11	1081.82	8/26/11	1080.78	10/28/11	NM	3/29/12	1081.52	8/27/12	1078.34	10/30/12	NM
MW-112B	Shallow	1082.02	3/29/11	1081.88	8/26/11	1080.94	10/28/11	NM	3/29/12	1081.58	8/27/12	1078.41	10/30/12	NM
MW-113A	Intermediate	1080.47	3/29/11	1080.33	8/26/11	1079.39	10/28/11	NM	3/29/12	1079.98	8/27/12	1077.02	10/30/12	NM
MW-113B	Shallow	1080.42	3/29/11	1080.30	8/26/11	1079.38	10/28/11	NM	3/29/12	1080.04	8/27/12	1077.01	10/30/12	NM
MW-113D	Deep	1080.49	3/29/11	1080.30	8/26/11	1079.38	10/28/11	NM	3/29/12	1079.94	8/27/12	1077.01	10/30/12	NM
MW-114A	Intermediate	1080.32	3/29/11	1076.83	8/26/11	1076.34	10/28/11	NM	3/29/12	1076.60	8/27/12	1073.85	10/30/12	NM
MW-114B	Shallow	1080.43	3/29/11	1076.79	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-114D	Deep	1080.23	3/29/11	1076.87	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-115A	Intermediate	1081.67	3/29/11	1076.05	8/26/11	1075.36	10/28/11	NM	3/29/12	1075.63	8/27/12	1072.66	10/30/12	NM
MW-115B	Shallow	1081.77	3/29/11	1076.06	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM

Table 2-3
Groundwater Elevations March 2011 through October 2012
2012 Groundwater Model Update
Former Nebraska Ordnance Plant

Location Identification	Zone Designation	Top of Casing Elevation (fteet AMSL)	Date	Groundwater Elevation (ft AMSL) March 2011	Date	Groundwater Elevation (ft AMSL) August 2011	Date	Groundwater Elevation (ft AMSL) October 2011	Date	Groundwater Elevation (ft AMSL) March 2012	Date	Groundwater Elevation (ft AMSL) August 2012	Date	Groundwater Elevation (ft AMSL) October 2012
MW-115D	Deep	1081.66	3/29/11	1076.06	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-116A	Intermediate	1080.53	3/29/11	1075.60	8/26/11	1074.91	10/28/11	NM	3/29/12	1075.15	8/27/12	1072.50	10/30/12	NM
MW-116B	Shallow	1080.49	3/29/11	1075.62	8/26/11	1074.91	10/28/11	NM	3/29/12	1075.18	8/27/12	1072.51	10/30/12	NM
MW-116D	Deep	1080.46	3/29/11	1075.58	8/26/11	1074.88	10/28/11	NM	3/29/12	1075.15	8/27/12	1072.47	10/30/12	NM
MW-117A	Intermediate	1122.26	3/29/11	1084.02	8/26/11	1083.70	10/28/11	NM	3/29/12	1083.87	8/27/12	1082.68	10/30/12	NM
MW-117B	Shallow	1122.06	3/29/11	1083.98	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-117D	Deep	1122.41	3/29/11	1083.97	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-118A	Intermediate	1143.87	3/29/11	1092.76	8/26/11	1093.22	10/28/11	NM	3/29/12	1093.09	8/27/12	1092.62	10/30/12	NM
MW-118B	Shallow	1143.91	3/29/11	1092.76	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-119A	Intermediate	1159.14	3/29/11	1115.69	8/26/11	1116.39	10/28/11	NM	3/29/12	1116.12	8/27/12	1115.98	10/30/12	NM
MW-119B	Deep	1159.28	3/29/11	1115.72	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-120A	Intermediate	1166.32	3/29/11	1114.19	8/26/11	1115.02	10/28/11	NM	3/29/12	1114.49	8/27/12	1114.36	10/30/12	NM
MW-120B	Shallow	1166.33	3/29/11	1114.18	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-120D	Deep	1166.62	3/29/11	1114.03	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-120E	Intermediate	1166.43	3/29/11	1114.12	8/26/11	1115.02	10/28/11	NM	3/29/12	1114.55	8/27/12	1114.38	10/30/12	NM
MW-121A	Intermediate	1170.04	3/29/11	1115.37	8/26/11	1116.97	10/28/11	NM	3/29/12	1115.79	8/27/12	1115.69	10/30/12	NM
MW-121B	Shallow	1170.13	3/29/11	1115.40	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-121E	Intermediate	1170.07	3/29/11	1115.63	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-122A	Intermediate	1165.76	3/29/11	1112.24	8/26/11	1112.67	10/28/11	NM	3/29/12	1112.54	8/27/12	1111.84	10/30/12	NM
MW-122B	Shallow	1166.52	3/29/11	1112.22	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-123A	Intermediate	1168.99	3/29/11	1114.63	8/26/11	NM	10/28/11	NM	3/29/12	1115.13	8/27/12	1115.37	10/30/12	NM
MW-123B	Shallow	1168.97	3/29/11	1114.78	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-124A	Intermediate	1161.89	3/29/11	1119.82	8/26/11	1120.54	10/28/11	NM	3/29/12	1120.51	8/27/12	1120.34	10/30/12	NM
MW-124B	Shallow	1161.59	3/29/11	1119.81	8/26/11	1120.49	10/28/11	NM	3/29/12	1120.52	8/27/12	1120.33	10/30/12	NM
MW-124D	Deep	1161.82	3/29/11	1119.42	8/26/11	1120.13	10/28/11	NM	3/29/12	1120.06	8/27/12	1119.93	10/30/12	NM
MW-125A	Intermediate	1162.05	3/29/11	1116.75	8/26/11	1118.14	10/28/11	NM	3/29/12	1117.25	8/27/12	1116.29	10/30/12	NM
MW-125B	Shallow	1162.14	3/29/11	1116.67	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-125D	Deep	1161.52	3/29/11	1116.59	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-126A	Intermediate	1170.87	3/29/11	1131.09	8/26/11	1131.50	10/28/11	NM	3/29/12	1132.21	8/27/12	1130.78	10/30/12	NM
MW-126B	Shallow	1171.29	3/29/11	1131.14	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-126D	Deep	1170.26	3/29/11	1131.24	8/26/11	1131.59	10/28/11	NM	3/29/12	1132.37	8/27/12	1130.86	10/30/12	NM
MW-127A	Intermediate	1168.95	3/29/11	1136.88	8/26/11	1137.25	10/28/11	NM	3/29/12	1138.32	8/27/12	1136.57	10/30/12	NM
MW-127B	Shallow	1169.37	3/29/11	1136.97	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-127E	Shallow	1169.40	3/29/11	1136.78	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-128A	Intermediate	1156.97	3/29/11	1095.92	8/26/11	1096.42	10/28/11	NM	3/29/12	1096.42	8/27/12	1095.96	10/30/12	NM
MW-128B	Shallow	1156.94	3/29/11	1095.89	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-128D	Deep	1156.84	3/29/11	1095.99	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-129A	Intermediate	1149.77	3/29/11	1089.01	8/26/11	1089.04	10/28/11	NM	3/29/12	1089.03	8/27/12	1088.48	10/30/12	NM
MW-129B	Shallow	1149.72	3/29/11	1089.01	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-129D	Deep	1149.46	3/29/11	1089.22	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-130A	Intermediate	1145.47	3/29/11	1086.55	8/26/11	1086.48	10/28/11	NM	3/29/12	1086.49	8/27/12	1085.57	10/30/12	NM
MW-130B	Shallow	1145.92	3/29/11	1086.66	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-130D	Deep	1145.15	3/29/11	1086.63	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-131A	Intermediate	1148.09	3/29/11	1092.04	8/26/11	1092.34	10/28/11	NM	3/29/12	1092.28	8/27/12	1091.81	10/30/12	NM
MW-131B	Shallow	1147.94	3/29/11	1091.99	8/26/11	1092.34	10/28/11	NM	3/29/12	1092.30	8/27/12	1091.84	10/30/12	NM
MW-131D	Deep	1148.10	3/29/11	1092.08	8/26/11	1092.39	10/28/11	NM	3/29/12	1092.34	8/27/12	1091.87	10/30/12	NM

Table 2-3
Groundwater Elevations March 2011 through October 2012
2012 Groundwater Model Update
Former Nebraska Ordnance Plant

Location Identification	Zone Designation	Top of Casing Elevation (fteet AMSL)	Date	Groundwater Elevation (ft AMSL) March 2011	Date	Groundwater Elevation (ft AMSL) August 2011	Date	Groundwater Elevation (ft AMSL) October 2011	Date	Groundwater Elevation (ft AMSL) March 2012	Date	Groundwater Elevation (ft AMSL) August 2012	Date	Groundwater Elevation (ft AMSL) October 2012
MW-132A	Intermediate	1160.09	3/29/11	1094.24	8/26/11	1094.77	10/28/11	NM	3/29/12	1094.70	8/27/12	1094.27	10/30/12	NM
MW-132B	Shallow	1159.81	3/29/11	1094.16	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-132D	Deep	1160.44	3/29/11	1094.21	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-133A	Intermediate	1167.41	3/29/11	1123.59	8/26/11	1124.33	10/28/11	NM	3/29/12	1123.59	8/27/12	1122.49	10/30/12	NM
MW-133B	Shallow	1167.55	3/29/11	1123.76	8/26/11	1124.51	10/28/11	NM	3/29/12	1123.74	8/27/12	1122.85	10/30/12	NM
MW-133D	Deep	1167.19	3/29/11	1123.35	8/26/11	1124.09	10/28/11	NM	3/29/12	1123.35	8/27/12	1122.24	10/30/12	NM
MW-134A	Intermediate	1168.44	3/29/11	1122.43	8/26/11	1122.88	10/28/11	NM	3/29/12	1122.36	8/27/12	1120.92	10/30/12	NM
MW-134B	Shallow	1168.55	3/29/11	1122.68	8/26/11	1122.94	10/28/11	NM	3/29/12	1122.43	8/27/12	1120.95	10/30/12	NM
MW-134D	Deep	1168.68	3/29/11	1122.63	8/26/11	1122.23	10/28/11	NM	3/29/12	1122.72	8/27/12	1121.08	10/30/12	NM
MW-135A	Intermediate	1165.77	3/29/11	1122.72	8/26/11	1123.46	10/28/11	NM	3/29/12	1122.68	8/27/12	1121.42	10/30/12	NM
MW-135B	Shallow	1165.71	3/29/11	1122.71	8/26/11	1123.49	10/28/11	NM	3/29/12	1122.65	8/27/12	1121.41	10/30/12	NM
MW-135D	Deep	1165.51	3/29/11	1123.39	8/26/11	1124.06	10/28/11	NM	3/29/12	1123.32	8/27/12	1121.99	10/30/12	NM
MW-136A	Intermediate	1167.96	3/29/11	1125.50	8/26/11	1126.05	10/28/11	NM	3/29/12	1125.18	8/27/12	1126.59	10/30/12	NM
MW-136B	Shallow	1168.14	3/29/11	1125.61	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-136D	Deep	1167.61	3/29/11	1125.38	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-136E	Shallow	1168.29	3/29/11	1125.83	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-137A	Intermediate	1166.31	3/29/11	1130.81	8/26/11	1131.54	10/28/11	NM	3/29/12	1130.93	8/27/12	1129.95	10/30/12	NM
MW-137B	Shallow	1166.04	3/29/11	1130.60	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-137D	Deep	1165.98	3/29/11	1130.75	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-137E	Shallow	1166.17	3/29/11	1130.63	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-138A	Intermediate	1175.83	3/29/11	1133.83	8/26/11	1134.53	10/28/11	NM	3/29/12	1134.14	8/27/12	1133.33	10/30/12	NM
MW-138B	Shallow	1176.22	3/29/11	1133.84	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-139A	Intermediate	1180.32	3/29/11	1136.94	8/26/11	1137.63	10/28/11	NM	3/29/12	1137.52	8/27/12	1136.63	10/30/12	NM
MW-139B	Shallow	1180.61	3/29/11	1136.93	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-140A	Intermediate	1092.50	3/29/11	1086.68	8/26/11	1085.96	10/28/11	NM	3/29/12	1086.51	8/27/12	1083.25	10/30/12	NM
MW-140B	Shallow	1092.42	3/29/11	1086.79	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	NM	NM
MW-140D	Deep	1092.30	3/29/11	1086.64	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	NM	NM
MW-140O	Overburden	1092.60	3/29/11	1083.07	8/26/11	1082.84	10/28/11	NM	3/29/12	1083.39	8/27/12	1081.30	10/30/12	NM
MW-141A	Intermediate	1162.07	3/29/11	1124.80	8/26/11	1125.45	10/28/11	NM	3/29/12	1125.88	8/27/12	1125.13	10/30/12	NM
MW-141B	Shallow	1162.10	3/29/11	1124.90	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-141E	Intermediate	1162.07	3/29/11	1124.89	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-142A	Intermediate	1154.43	3/29/11	1107.71	8/26/11	1108.29	10/28/11	NM	3/29/12	1107.99	8/27/12	1106.12	10/30/12	NM
MW-142E	Intermediate	1154.15	3/29/11	1107.70	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-143B	Shallow	1155.87	3/29/11	1110.45	8/26/11	1110.86	10/28/11	NM	3/29/12	1111.24	8/27/12	1110.55	10/30/12	NM
MW-144A	Intermediate	1164.17	3/29/11	1124.15	8/26/11	1124.65	10/28/11	NM	3/29/12	1124.94	8/27/12	1124.04	10/30/12	NM
MW-144E	Intermediate	1164.47	3/29/11	1124.16	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-145A	Intermediate	1160.75	3/29/11	1112.75	8/26/11	1113.20	10/28/11	NM	3/29/12	1113.63	8/27/12	1113.32	10/30/12	NM
MW-145E	Intermediate	1160.89	3/29/11	1112.74	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-146A	Intermediate	1148.18	3/29/11	1100.04	8/26/11	1100.88	10/28/11	NM	3/29/12	1101.04	8/27/12	1100.48	10/30/12	NM
MW-146B	Shallow	1148.01	3/29/11	1100.06	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-147A	Intermediate	1148.92	3/29/11	1098.24	8/26/11	1099.12	10/28/11	NM	3/29/12	1099.22	8/27/12	1098.61	10/30/12	NM
MW-147B	Shallow	1148.74	3/29/11	1098.26	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-147D	Deep	1148.52	3/29/11	1098.26	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-148B	Shallow	1160.53	3/29/11	1117.71	8/26/11	1117.85	10/28/11	NM	3/29/12	1118.42	8/27/12	1117.21	10/30/12	NM
MW-149A	Intermediate	1152.23	3/29/11	1107.08	8/26/11	1107.49	10/28/11	NM	3/29/12	1107.79	8/27/12	1107.03	10/30/12	NM
MW-150A	Intermediate	1147.59	3/29/11	1099.47	8/26/11	1100.03	10/28/11	NM	3/29/12	1100.13	8/27/12	1099.50	10/30/12	NM

Table 2-3
Groundwater Elevations March 2011 through October 2012
2012 Groundwater Model Update
Former Nebraska Ordnance Plant

Location Identification	Zone Designation	Top of Casing Elevation (fteet AMSL)	Date	Groundwater Elevation (ft AMSL) March 2011	Date	Groundwater Elevation (ft AMSL) August 2011	Date	Groundwater Elevation (ft AMSL) October 2011	Date	Groundwater Elevation (ft AMSL) March 2012	Date	Groundwater Elevation (ft AMSL) August 2012	Date	Groundwater Elevation (ft AMSL) October 2012
MW-150B	Shallow	1147.51	3/29/11	1099.53	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-151A	Intermediate	1158.65	3/29/11	1115.93	8/26/11	1115.78	10/28/11	NM	3/29/12	1115.88	8/27/12	1113.74	10/30/12	NM
MW-151B	Shallow	1158.72	3/29/11	1115.90	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-152B	Shallow	1148.37	3/29/11	1108.69	8/26/11	1108.76	10/28/11	NM	3/29/12	1108.12	8/27/12	1107.00	10/30/12	NM
MW-153A	Intermediate	1146.17	3/29/11	1102.37	8/26/11	1102.13	10/28/11	NM	3/29/12	1101.97	8/27/12	1099.98	10/30/12	NM
MW-153B	Shallow	1146.28	3/29/11	1102.38	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-154A	Intermediate	1141.11	3/29/11	1094.79	8/26/11	1094.23	10/28/11	NM	3/29/12	1094.40	8/27/12	1090.70	10/30/12	NM
MW-154B	Shallow	1141.16	3/29/11	1095.50	8/26/11	1094.90	10/28/11	NM	3/29/12	1095.01	8/27/12	1091.48	10/30/12	NM
MW-155A	Intermediate	1141.95	3/29/11	1095.97	8/26/11	1095.64	10/28/11	NM	3/29/12	1095.49	8/27/12	1093.26	10/30/12	NM
MW-155E	Intermediate	1141.78	3/29/11	1095.92	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-156A	Intermediate	1093.89	3/29/11	1088.49	8/26/11	1088.20	10/28/11	NM	3/29/12	1088.31	8/27/12	1088.72	10/30/12	NM
MW-156B	Shallow	1093.96	3/29/11	1088.64	8/26/11	1088.33	10/28/11	NM	3/29/12	1088.38	8/27/12	1086.67	10/30/12	NM
MW-157A	Intermediate	1102.64	3/29/11	1083.59	8/26/11	1083.53	10/28/11	NM	3/29/12	1083.55	8/27/12	1081.85	10/30/12	NM
MW-157B	Shallow	1101.91	3/29/11	1083.58	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
MW-158A	Intermediate	1076.69	3/29/11	1074.79	8/26/11	1074.22	10/28/11	1076.11	3/29/12	1074.48	8/27/12	1071.75	10/30/12	1075.77
MW-158B	Shallow	1076.36	3/29/11	1074.74	8/26/11	1074.20	10/28/11	NM	3/29/12	1074.46	8/27/12	1072.00	10/30/12	NM
MW-158D	Deep	1076.63	3/29/11	1074.73	8/26/11	1074.17	10/28/11	NM	3/29/12	1074.43	8/27/12	1072.00	10/30/12	NM
MW-159A	Intermediate	1163.51	3/29/11	1116.46	8/26/11	1115.97	10/28/11	NM	3/29/12	1115.57	8/27/12	1112.54	10/30/12	NM
MW-159B	Shallow	1163.57	3/29/11	1116.29	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
OW-01	Intermediate	1161.41	3/29/11	1115.79	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
OW-02	Intermediate	1161.57	3/29/11	1115.88	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
OW-03	Intermediate	1161.69	3/29/11	1115.98	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
OW-04	Intermediate	1161.75	3/29/11	1115.82	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
OW-05	Intermediate	1080.35	3/29/11	1071.48	8/26/11	1070.07	10/28/11	NM	3/29/12	1070.78	8/27/12	1068.59	10/30/12	NM
OW-06	Intermediate	1079.22	3/29/11	1073.12	8/26/11	1071.93	10/28/11	NM	3/29/12	1072.55	8/27/12	1070.03	10/30/12	NM
OW-07	Intermediate	1079.06	3/29/11	1073.58	8/26/11	1072.51	10/28/11	NM	3/29/12	1072.84	8/27/12	1070.65	10/30/12	NM
OW-08	Intermediate	1078.43	3/29/11	1074.01	8/26/11	1073.03	10/28/11	NM	3/29/12	1073.40	8/27/12	1071.22	10/30/12	NM
OW-09	Intermediate	1080.96	3/29/11	1073.23	8/26/11	1072.04	10/28/11	NM	3/29/12	1072.60	8/27/12	1070.36	10/30/12	NM
OW-10	Intermediate	1079.79	3/29/11	1073.91	8/26/11	1073.13	10/28/11	NM	3/29/12	1073.41	8/27/12	1069.42	10/30/12	NM
OW-11	Intermediate	1078.66	3/29/11	1074.48	8/26/11	1073.76	10/28/11	NM	3/29/12	1074.02	8/27/12	1069.77	10/30/12	NM
OW-12	Intermediate	1080.19	3/29/11	1075.53	8/26/11	1074.82	10/28/11	NM	3/29/12	1075.10	8/27/12	1072.45	10/30/12	NM
OW-13	Intermediate	1081.25	3/29/11	1073.32	8/26/11	1071.67	10/28/11	NM	3/29/12	1072.68	8/27/12	1070.44	10/30/12	NM
OW-14	Intermediate	1080.52	3/29/11	1074.22	8/26/11	1073.25	10/28/11	NM	3/29/12	1073.64	8/27/12	1071.43	10/30/12	NM
OW-15	Intermediate	1080.66	3/29/11	1074.52	8/26/11	1073.67	10/28/11	NM	3/29/12	1074.01	8/27/12	1072.57	10/30/12	NM
OW-16	Intermediate	1078.22	3/29/11	1076.79	8/26/11	1076.34	10/28/11	NM	3/29/12	1076.52	8/27/12	1075.07	10/30/12	NM
OW-17	Intermediate	1161.58	3/29/11	1116.26	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
OW-18	Intermediate	1162.21	3/29/11	1115.96	8/26/11	1116.94	10/28/11	NM	3/29/12	1116.45	8/27/12	1116.58	10/30/12	NM
OW-19	Intermediate	1172.28	3/29/11	1114.72	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
OW-20	Intermediate	1162.79	3/29/11	1115.87	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
OW-21	Intermediate	1159.81	3/29/11	1115.40	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
OW-22	Intermediate	1161.24	3/29/11	1115.53	8/26/11	1116.21	10/28/11	NM	3/29/12	1115.93	8/27/12	1115.78	10/30/12	NM
OW-23	Intermediate	1162.08	NM	NM	8/26/11	NM	10/28/11	NM	3/29/12	1117.20	8/27/12	1117.05	10/30/12	NM
OW-24	Intermediate	1153.07	3/29/11	1084.97	8/26/11	1084.81	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
OW-25	Intermediate	1155.71	3/29/11	1085.53	8/26/11	1085.33	10/28/11	NM	3/29/12	1085.36	8/27/12	1084.30	10/30/12	NM
OW-26	Intermediate	1148.64	3/29/11	1086.84	8/26/11	1086.72	10/28/11	NM	3/29/12	1086.68	8/27/12	1085.75	10/30/12	NM
OW-27	Intermediate	1153.30	3/29/11	1085.19	8/26/11	1085.05	10/28/11	NM	3/29/12	1084.99	8/27/12	1083.97	10/30/12	NM

Table 2-3
Groundwater Elevations March 2011 through October 2012
2012 Groundwater Model Update
Former Nebraska Ordnance Plant

Location Identification	Zone Designation	Top of Casing Elevation (fteet AMSL)	Date	Groundwater Elevation (ft AMSL) March 2011	Date	Groundwater Elevation (ft AMSL) August 2011	Date	Groundwater Elevation (ft AMSL) October 2011	Date	Groundwater Elevation (ft AMSL) March 2012	Date	Groundwater Elevation (ft AMSL) August 2012	Date	Groundwater Elevation (ft AMSL) October 2012
OW-28	Intermediate	1153.81	3/29/11	1085.31	8/26/11	1085.12	10/28/11	NM	3/29/12	1085.10	8/27/12	1084.08	10/30/12	NM
OW-30	Intermediate	1131.58	3/29/11	1086.10	8/26/11	1085.88	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
OW-31	Intermediate	1155.78	3/29/11	1096.86	8/26/11	1097.53	10/28/11	NM	3/29/12	1097.49	8/27/12	1097.05	10/30/12	NM
OW-32	Intermediate	1153.87	3/29/11	1096.87	8/26/11	1097.54	10/28/11	NM	3/29/12	1097.51	8/27/12	1097.06	10/30/12	NM
OW-33	Intermediate	1154.67	3/29/11	1096.82	8/26/11	1097.58	10/28/11	NM	3/29/12	1097.53	8/27/12	1097.12	10/30/12	NM
OW-34	Intermediate	1154.70	3/29/11	1096.39	8/26/11	1097.03	10/28/11	NM	3/29/12	1097.00	8/27/12	1096.58	10/30/12	NM
OW-35	Intermediate	1154.10	3/29/11	1096.43	8/26/11	1097.10	10/28/11	NM	3/29/12	1097.04	8/27/12	1106.54	10/30/12	NM
OW-36	Intermediate	1157.23	3/29/11	1095.94	8/26/11	1096.52	10/28/11	NM	3/29/12	1096.59	8/27/12	1096.12	10/30/12	NM
OW-37	Intermediate	1157.36	3/29/11	1095.90	8/26/11	1096.37	10/28/11	NM	3/29/12	NM	8/27/12	1095.98	10/30/12	NM
OW-38	Intermediate	1151.19	3/29/11	1092.57	8/26/11	1094.00	10/28/11	NM	3/29/12	1093.79	8/27/12	1093.34	10/30/12	NM
OW-39	Intermediate	1151.39	3/29/11	1094.88	8/26/11	1096.24	10/28/11	NM	3/29/12	1096.01	8/27/12	1095.63	10/30/12	NM
OW-40	Intermediate	1157.66	3/29/11	1096.54	8/26/11	1097.67	10/28/11	NM	3/29/12	1097.61	8/27/12	1097.21	10/30/12	NM
OW-41	Intermediate	1150.22	3/29/11	1091.74	8/26/11	1093.13	10/28/11	NM	3/29/12	1092.95	8/27/12	1092.51	10/30/12	NM
OW-42	Intermediate	1151.21	3/29/11	1093.99	8/26/11	1095.31	10/28/11	NM	3/29/12	1095.07	8/27/12	1094.68	10/30/12	NM
OW-43	Intermediate	1156.74	3/29/11	1095.70	8/26/11	1096.86	10/28/11	NM	3/29/12	1096.66	8/27/12	1096.30	10/30/12	NM
OW-44	Intermediate	1147.84	3/29/11	1096.41	8/26/11	1097.55	10/28/11	NM	3/29/12	1097.39	8/27/12	1096.93	10/30/12	NM
OW-45	Intermediate	1152.47	3/29/11	1100.08	8/26/11	1100.82	10/28/11	NM	3/29/12	1100.96	8/27/12	1100.34	10/30/12	NM
OW-46	Intermediate	1151.55	3/29/11	1100.35	8/26/11	1101.05	10/28/11	NM	3/29/12	1101.25	8/27/12	1100.59	10/30/12	NM
OW-47	Intermediate	1153.44	3/29/11	1100.95	8/26/11	1101.64	10/28/11	NM	3/29/12	1101.80	8/27/12	1101.24	10/30/12	NM
OW-48	Intermediate	1153.38	3/29/11	1100.07	8/26/11	1100.80	10/28/11	NM	3/29/12	1100.96	8/27/12	1100.29	10/30/12	NM
OW-49	Intermediate	1154.09	3/29/11	1099.82	8/26/11	1100.55	10/28/11	NM	3/29/12	1100.71	8/27/12	1100.07	10/30/12	NM
OW-50	Intermediate	1151.16	3/29/11	1099.67	8/26/11	1100.38	10/28/11	NM	3/29/12	1100.53	8/27/12	1099.86	10/30/12	NM
OW-51	Intermediate	1149.86	3/29/11	1099.15	8/26/11	1099.97	10/28/11	NM	3/29/12	1100.08	8/27/12	1099.50	10/30/12	NM
OW-52	Intermediate	1107.14	3/29/11	1093.15	8/26/11	1095.37	10/28/11	NM	3/29/12	1093.18	8/27/12	1092.64	10/30/12	NM
OW-53	Intermediate	1107.13	3/29/11	1095.14	8/26/11	1096.14	10/28/11	NM	3/29/12	1095.15	8/27/12	1094.43	10/30/12	NM
OW-54	Intermediate	1115.39	3/29/11	1103.35	8/26/11	1103.74	10/28/11	NM	3/29/12	1103.41	8/27/12	1102.29	10/30/12	NM
OW-55	Intermediate	1107.05	3/29/11	1091.96	8/26/11	1093.17	10/28/11	NM	3/29/12	1091.83	8/27/12	1091.33	10/30/12	NM
OW-56	Intermediate	1112.15	3/29/11	1103.10	8/26/11	1103.59	10/28/11	NM	3/29/12	1103.14	8/27/12	1102.15	10/30/12	NM
OW-57	Intermediate	1114.84	3/29/11	1103.46	8/26/11	1103.84	10/28/11	NM	3/29/12	1103.53	8/27/12	1102.54	10/30/12	NM
OW-58	Intermediate	1109.00	3/29/11	1100.87	8/26/11	1101.30	10/28/11	NM	3/29/12	1100.85	8/27/12	1099.70	10/30/12	NM
OW-59	Intermediate	1110.50	3/29/11	1102.01	8/26/11	1102.44	10/28/11	NM	3/29/12	1102.03	8/27/12	1101.00	10/30/12	NM
OW-60	Intermediate	1149.15	3/29/11	1089.87	8/26/11	1089.95	10/28/11	NM	3/29/12	1089.99	8/27/12	1089.56	10/30/12	NM
OW-61	Intermediate	1148.81	3/29/11	1090.56	8/26/11	1090.63	10/28/11	NM	3/29/12	1090.67	8/27/12	1090.21	10/30/12	NM
OW-62	Intermediate	1151.40	3/29/11	1091.49	8/26/11	1091.48	10/28/11	NM	3/29/12	1091.50	8/27/12	1090.91	10/30/12	NM
OW-63	Intermediate	1152.90	3/29/11	1091.00	8/26/11	1091.00	10/28/11	NM	3/29/12	1091.01	8/27/12	1090.41	10/30/12	NM
OW-64	Intermediate	1148.12	3/29/11	1089.97	8/26/11	1090.04	10/28/11	NM	3/29/12	1090.05	8/27/12	1089.61	10/30/12	NM
OW-65	Intermediate	1147.36	3/29/11	1089.47	8/26/11	1089.48	10/28/11	NM	3/29/12	1089.51	8/27/12	1088.93	10/30/12	NM
OW-66	Intermediate	1147.09	3/29/11	1096.24	8/26/11	1097.25	10/28/11	NM	3/29/12	1097.16	8/27/12	1096.71	10/30/12	NM
OW-67	Intermediate	1149.64	3/29/11	1096.31	8/26/11	1097.35	10/28/11	NM	3/29/12	1097.23	8/27/12	1096.76	10/30/12	NM
OW-68	Intermediate	1146.89	3/29/11	1095.88	8/26/11	1097.00	10/28/11	NM	3/29/12	1096.79	8/27/12	1096.37	10/30/12	NM
OW-69	Intermediate	1147.02	3/29/11	1096.12	8/26/11	1097.14	10/28/11	NM	3/29/12	1097.01	8/27/12	1096.53	10/30/12	NM
OW-70	Intermediate	1146.14	3/29/11	1095.99	8/26/11	1096.96	10/28/11	NM	3/29/12	1096.78	8/27/12	1095.85	10/30/12	NM
OW-71	Intermediate	1158.23	3/29/11	1096.22	8/26/11	1097.02	10/28/11	NM	3/29/12	1096.94	8/27/12	1096.50	10/30/12	NM
OW-72	Intermediate	1156.05	3/29/11	1096.55	8/26/11	1097.52	10/28/11	NM	3/29/12	1097.57	8/27/12	1097.05	10/30/12	NM
OW-73	Intermediate	1157.61	3/29/11	1097.36	8/26/11	1098.26	10/28/11	NM	3/29/12	1098.35	8/27/12	1097.80	10/30/12	NM
OW-74	Intermediate	1148.38	3/29/11	1098.63	8/26/11	1099.47	10/28/11	NM	3/29/12	1099.56	8/27/12	1098.93	10/30/12	NM

Table 2-3
Groundwater Elevations March 2011 through October 2012
2012 Groundwater Model Update
Former Nebraska Ordnance Plant

Location Identification	Zone Designation	Top of Casing Elevation (fteet AMSL)	Date	Groundwater Elevation (ft AMSL) March 2011	Date	Groundwater Elevation (ft AMSL) August 2011	Date	Groundwater Elevation (ft AMSL) October 2011	Date	Groundwater Elevation (ft AMSL) March 2012	Date	Groundwater Elevation (ft AMSL) August 2012	Date	Groundwater Elevation (ft AMSL) October 2012
OW-75	Intermediate	1154.51	3/29/11	1097.18	8/26/11	1098.09	10/28/11	NM	3/29/12	1098.15	8/27/12	1097.62	10/30/12	NM
OW-76	Intermediate	1148.68	3/29/11	1097.49	8/26/11	1098.37	10/28/11	NM	3/29/12	1098.41	8/27/12	1097.85	10/30/12	NM
OW-77	Intermediate	1157.82	3/29/11	1096.12	8/26/11	1097.23	10/28/11	NM	3/29/12	1097.16	8/27/12	1096.70	10/30/12	NM
OW-78	Intermediate	1163.94	3/29/11	1111.12	8/26/11	1117.13	10/28/11	NM	3/29/12	1111.43	8/27/12	1111.73	10/30/12	NM
OW-79	Intermediate	1167.29	3/29/11	1113.12	8/26/11	1116.95	10/28/11	NM	3/29/12	1113.52	8/27/12	1113.75	10/30/12	NM
OW-80	Intermediate	1169.30	NM	NM	8/26/11	1116.34	10/28/11	NM	3/29/12	1115.03	8/27/12	1115.29	10/30/12	NM
OW-81	Intermediate	1164.13	3/29/11	1113.75	8/26/11	1116.07	10/28/11	NM	3/29/12	1114.29	8/27/12	1114.41	10/30/12	NM
OW-82	Intermediate	1169.05	3/29/11	1114.25	8/26/11	1115.13	10/28/11	NM	3/29/12	1114.64	8/27/12	1114.49	10/30/12	NM
OW-83	Intermediate	1173.20	3/29/11	1115.59	8/26/11	1117.21	10/28/11	NM	3/29/12	1116.02	8/27/12	1115.98	10/30/12	NM
OW-89	Intermediate	1092.56	3/29/11	1080.13	8/26/11	1079.83	10/28/11	NM	3/29/12	1079.93	8/27/12	1078.48	10/30/12	NM
OW-90	Intermediate	1153.30	3/29/11	1093.67	8/26/11	1094.05	10/28/11	NM	3/29/12	1094.09	8/27/12	1093.60	10/30/12	NM
OW-92	Intermediate	1154.30	3/29/11	1095.40	8/26/11	1095.75	10/28/11	NM	3/29/12	1096.82	8/27/12	1095.33	10/30/12	NM
OW-93	Intermediate	1156.87	3/29/11	1093.42	8/26/11	1093.76	10/28/11	NM	3/29/12	1093.71	8/27/12	1093.12	10/30/12	NM
OW-94	Intermediate	1153.21	3/29/11	1095.20	8/26/11	1095.57	10/28/11	NM	3/29/12	1095.59	8/27/12	1095.10	10/30/12	NM
OW-95	Intermediate	1150.04	3/29/11	1094.89	8/26/11	1095.24	10/28/11	NM	3/29/12	1095.23	8/27/12	1094.76	10/30/12	NM
OW-96	Intermediate	1146.64	3/29/11	1088.24	8/26/11	1088.19	10/28/11	NM	3/29/12	1088.18	8/27/12	1087.46	10/30/12	NM
OW-97	Intermediate	1146.21	3/29/11	1087.85	8/26/11	1087.77	10/28/11	NM	3/29/12	1087.77	8/27/12	1087.02	10/30/12	NM
OW-98	Intermediate	1150.67	3/29/11	1088.19	8/26/11	1088.15	10/28/11	NM	3/29/12	1088.13	8/27/12	1087.34	10/30/12	NM
OW-99	Intermediate	1146.97	3/29/11	1087.47	8/26/11	1087.38	10/28/11	NM	3/29/12	1087.40	8/27/12	1086.63	10/30/12	NM
OW-100	Intermediate	1147.39	3/29/11	1086.96	8/26/11	1086.78	10/28/11	NM	3/29/12	1086.84	8/27/12	1086.00	10/30/12	NM
OW-101	Intermediate	1168.26	3/29/11	1121.53	8/26/11	1122.34	10/28/11	NM	3/29/12	1121.47	8/27/12	1120.41	10/30/12	NM
OW-102	Intermediate	1166.49	3/29/11	1123.05	8/26/11	NM	10/28/11	NM	3/29/12	1123.03	8/27/12	1121.88	10/30/12	NM
OW-103	Intermediate	1169.13	3/29/11	1125.41	8/26/11	1126.14	10/28/11	NM	3/29/12	1125.29	8/27/12	1124.03	10/30/12	NM
OW-104	Intermediate	1167.73	3/29/11	1122.32	8/26/11	1123.07	10/28/11	NM	3/29/12	1122.30	8/27/12	1120.93	10/30/12	NM
OW-105	Intermediate	1165.40	3/29/11	1122.73	8/26/11	1123.38	10/28/11	NM	3/29/12	1122.69	8/27/12	1121.40	10/30/12	NM
PZ-01	Intermediate	1116.38	3/29/11	1084.18	8/26/11	1083.96	10/28/11	NM	3/29/12	1082.28	8/27/12	1082.19	10/30/12	NM
PZ-02	Intermediate	1130.80	3/29/11	1087.40	8/26/11	1087.21	10/28/11	NM	3/29/12	1083.60	8/27/12	1086.74	10/30/12	NM
PZ-03	Intermediate	1087.47	3/29/11	1086.98	8/26/11	1086.51	10/28/11	NM	3/29/12	1086.70	8/27/12	1084.21	10/30/12	NM
PZ-04	Intermediate	1086.65	3/29/11	1082.58	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
PZ-05	Intermediate	1085.66	3/29/11	1081.54	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
PZ-06	Intermediate	1088.42	3/29/11	1085.57	8/26/11	NM	10/28/11	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
PZ-11	Deep	1094.18	3/29/11	1088.60	8/26/11	1088.36	10/28/11	NM	3/29/12	1088.46	8/27/12	1085.87	10/30/12	NM
PZ-12	Deep	1101.36	3/29/11	1083.48	8/26/11	1083.42	10/28/11	NM	3/29/12	1083.46	8/27/12	1082.39	10/30/12	NM
PZ-13	Intermediate	1081.23	3/29/11	1079.55	8/26/11	1079.53	10/28/11	NM	3/29/12	1079.69	8/27/12	1078.47	10/30/12	NM
PZ-14	Intermediate	1080.52	3/29/11	1079.47	8/26/11	1079.44	10/28/11	NM	3/29/12	1079.91	8/27/12	1078.36	10/30/12	NM
TH-EW-12	Intermediate	1107.37	3/29/11	1079.07	8/26/11	1080.93	10/28/11	NM	3/29/12	1077.71	8/27/12	1077.82	10/30/12	NM
TH-EW-13	Intermediate	1111.04	3/29/11	1101.82	8/26/11	1102.26	10/28/11	NM	3/29/12	1101.85	8/27/12	1100.79	10/30/12	NM
TH-EW-14R1	Intermediate	1156.72	3/29/11	1093.52	8/26/11	1093.87	10/28/11	NM	3/29/12	1093.87	8/27/12	1093.30	10/30/12	NM
TH-EW-14R2	Intermediate	1151.08	3/29/11	1094.57	8/26/11	1094.92	10/28/11	NM	3/29/12	1094.88	8/27/12	1094.44	10/30/12	NM
TH-EW-15	Intermediate	1172.51	3/29/11	1123.02	8/26/11	1123.79	10/28/11	NM	3/29/12	1122.94	8/27/12	1121.85	10/30/12	NM
TH-EW-16	Intermediate	1147.71	3/29/11	1087.31	8/26/11	1087.24	10/28/11	NM	3/29/12	1087.23	8/27/12	1086.53	10/30/12	NM
Brabec		1150.00	3/29/11	1100.48	8/26/11	1100.90	10/28/11	1100.98	3/29/12	1101.14	8/27/12	1099.94	10/30/12	1100.04
D.Starns		1064.50	3/29/11	1054.55	8/26/11	1053.45	10/28/11	1050.19	3/29/12	1055.92	8/27/12	1042.89	10/30/12	1045.22
Frahm		1146.00	3/29/11	1091.68	8/26/11	1091.88	10/28/11	1091.89	3/29/12	1091.75	8/27/12	1090.20	10/30/12	1090.28
Hanson		1144.40	3/29/11	1095.26	8/26/11	1093.89	10/28/11	1095.73	3/29/12	1095.78	8/27/12	1094.71	10/30/12	1094.56
LPN 06-01		1066.68	3/29/11	1064.96	8/26/11	1064.86	10/28/11	1064.17	3/29/12	1065.06	8/27/12	1062.40	10/30/12	1062.35

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Location Identification	Zone Designation	Top of Casing Elevation (fteet AMSL)	Date	Groundwater Elevation (ft AMSL) March 2011	Date	Groundwater Elevation (ft AMSL) August 2011	Date	Groundwater Elevation (ft AMSL) October 2011	Date	Groundwater Elevation (ft AMSL) March 2012	Date	Groundwater Elevation (ft AMSL) August 2012	Date	Groundwater Elevation (ft AMSL) October 2012
LPN 06-18		1088.45	3/29/11	1086.77	8/26/11	1085.76	10/28/11	1085.69	3/29/12	1086.54	8/27/12	1082.89	10/30/12	1084.09
LPN 06-19		1140.81	3/29/11	1105.17	8/26/11	1102.98	10/28/11	1104.52	3/29/12	1104.88	8/27/12	1096.11	10/30/12	1099.97
LPN 06-20		1208.77	3/29/11	1148.83	8/26/11	1149.60	10/28/11	1149.77	3/29/12	1150.01	8/27/12	1148.33	10/30/12	1147.57
LPN 06-21		1204.53	3/29/11	1154.72	8/26/11	1153.78	10/28/11	1154.74	3/29/12	1155.28	8/27/12	1144.46	10/30/12	1146.91
M90-01		1074.38	3/29/11	1072.34	8/26/11	1071.44	10/28/11	1070.03	3/29/12	1071.96	8/27/12	1068.18	10/30/12	1068.04
M90-02		1075.70	3/29/11	1071.58	8/26/11	1070.89	10/28/11	1070.02	3/29/12	1071.34	8/27/12	1068.83	10/30/12	1067.27
M90-04		1071.08	3/29/11	1068.45	8/26/11	1067.71	10/28/11	1066.62	3/29/12	1068.23	8/27/12	1064.92	10/30/12	1065.06
M90-05R		1076.50	3/29/11	1065.80	8/26/11	NM	10/28/11	1065.63	3/29/12	1066.31	8/27/12	1063.97	10/30/12	1064.55
M90-09		1067.97	3/29/11	1064.80	8/26/11	1064.19	10/28/11	1063.61	3/29/12	1064.65	8/27/12	1061.96	10/30/12	1062.07
M90-12R		1070.00	3/29/11	1063.94	8/26/11	NM	10/28/11	1063.85	3/29/12	1063.83	8/27/12	1059.62	10/30/12	1061.97
M90-15		1065.39	3/29/11	1060.74	8/26/11	1059.85	10/28/11	1059.43	3/29/12	1060.64	8/27/12	1057.72	10/30/12	1057.69
M90-16R		1063.57	3/29/11	1060.83	8/26/11	NM	10/28/11	1060.45	3/29/12	1061.12	8/27/12	1056.34	10/30/12	1057.39
M90-17R		1067.54	3/29/11	1060.56	8/26/11	NM	10/28/11	1059.19	3/29/12	1060.23	8/27/12	1053.89	10/30/12	1057.14
M90-20R		1066.45	3/29/11	1059.08	8/26/11	NM	10/28/11	1058.06	3/29/12	1058.52	8/27/12	1055.52	10/30/12	1056.92
M90-21		1064.09	3/29/11	1057.75	8/26/11	1057.72	10/28/11	1056.42	3/29/12	1057.28	8/27/12	1055.17	10/30/12	1054.41
M90-22R		1063.17	3/29/11	1056.54	8/26/11	NM	10/28/11	1054.04	3/29/12	1056.74	8/27/12	1046.30	10/30/12	1047.96
M90-23R		1056.70	3/29/11	1052.70	8/26/11	NM	10/28/11	1047.06	3/29/12	1053.36	8/27/12	1037.01	10/30/12	1043.48
M90-24R		1059.05	3/29/11	1049.43	8/26/11	NM	10/28/11	1045.46	3/29/12	1050.83	8/27/12	1041.01	10/30/12	1043.18
M90-26R		1057.07	3/29/11	1052.47	8/26/11	NM	10/28/11	1051.18	3/29/12	1053.09	8/27/12	1048.10	10/30/12	1048.89
M90-36R		1059.30	3/29/11	1053.34	8/26/11	NM	10/28/11	1052.12	3/29/12	1053.23	8/27/12	1050.65	10/30/12	1051.37
M90-37		1054.19	3/29/11	1052.11	8/26/11	1051.51	10/28/11	1050.98	3/29/12	1051.86	8/27/12	1048.93	10/30/12	1049.87
MUD 90-10		1099.56	3/29/11	1091.19	8/26/11	1089.76	10/28/11	1089.33	3/29/12	1091.07	8/27/12	1086.96	10/30/12	1089.10
MUD 94-3		1085.52	3/29/11	1079.77	8/26/11	1079.25	10/28/11	1078.17	3/29/12	1079.27	8/27/12	1077.03	10/30/12	1076.98
MUD 94-4		1094.81	3/29/11	1084.93	8/26/11	1082.97	10/28/11	1079.68	3/29/12	1084.86	8/27/12	1081.98	10/30/12	1082.51
MUD 94-5		1097.79	3/29/11	1093.60	8/26/11	1092.54	10/28/11	1092.40	3/29/12	1093.39	8/27/12	1089.54	10/30/12	1091.37
MUD 94-6		1085.55	3/29/11	1083.18	8/26/11	1081.92	10/28/11	1081.28	3/29/12	1082.82	8/27/12	1079.55	10/30/12	1080.49
MUD 94-7		1083.07	3/29/11	1076.26	8/26/11	1075.33	10/28/11	1074.63	3/29/12	1075.93	8/27/12	1072.79	10/30/12	1072.83
N.Keiser		1104.20	3/29/11	1081.41	8/26/11	1081.09	10/28/11	1081.10	3/29/12	1081.25	8/27/12	1079.88	10/30/12	1080.00
N.Wann		1107.30	3/29/11	1104.85	8/26/11	1103.82	10/28/11	1104.31	3/29/12	1104.13	8/27/12	1101.76	10/30/12	1103.18
PV-37		1100.90	3/29/11	1091.01	8/26/11	1089.78	10/28/11	1088.87	3/29/12	1091.05	8/27/12	1086.38	10/30/12	1088.16
PV-38		1100.00	3/29/11	1095.03	8/26/11	1093.96	10/28/11	1093.94	3/29/12	1094.80	8/27/12	1091.70	10/30/12	1093.45
PV-39		1084.00	3/29/11	1083.02	8/26/11	1082.31	10/28/11	1082.20	3/29/12	1082.85	8/27/12	1080.05	10/30/12	1080.82
PV-40		1088.90	3/29/11	1081.57	8/26/11	1080.84	10/28/11	1079.35	3/29/12	1081.01	8/27/12	1078.82	10/30/12	1079.07
PV-41		1096.20	3/29/11	1091.12	8/26/11	1089.81	10/28/11	1089.26	3/29/12	1091.11	8/27/12	1087.23	10/30/12	1088.89
S.Keiser		1114.20	3/29/11	1080.58	8/26/11	1080.03	10/28/11	1080.20	3/29/12	1080.42	8/27/12	1078.80	10/30/12	1079.11
TV-16		1140.30	3/29/11	1094.34	8/26/11	1094.45	10/28/11	1094.57	3/29/12	1094.62	8/27/12	1092.78	10/30/12	1093.06
TV-17A		1137.75	3/29/11	1088.12	8/26/11	1087.89	10/28/11	1087.81	3/29/12	1087.75	8/27/12	1084.55	10/30/12	1084.31

Table 2-3
Groundwater Elevations March 2011 through October 2012
2012 Groundwater Model Update
Former Nebraska Ordnance Plant

Location Identification	Zone Designation	Top of Casing Elevation (fteet AMSL)	Date	Groundwater Elevation (ft AMSL) March 2011	Date	Groundwater Elevation (ft AMSL) August 2011	Date	Groundwater Elevation (ft AMSL) October 2011	Date	Groundwater Elevation (ft AMSL) March 2012	Date	Groundwater Elevation (ft AMSL) August 2012	Date	Groundwater Elevation (ft AMSL) October 2012
13N_10E32ADDD1_M90-30R		1055.83(1)	3/18/11	1052.29	8/15/11	1052.41	10/28/11	NM	3/6/12	1052.09	8/27/12	1046.39	10/31/12	1050.02
13N_10E32DBBA1_M28R_ISLAND_NORTH_WELL		1057.81(1)	3/15/11	1054.38	8/24/11	1054.53	10/28/11	NM	3/14/12	1054.14	8/27/12	1051.33	10/15/12	1052.56
13N_10E32DCAA1_M91-58R		1056.35(3)	3/15/11	1047.48	8/16/11	1048.94	10/28/11	NM	3/14/12	1045.74	9/5/12	1042.21	10/31/12	1048.33
13N_10E32DCAC1_M90-29R		1054.43(3)	3/15/11	1046.21	8/24/11	1047.57	10/28/11	NM	3/14/12	1046.12	9/5/12	1042.18	10/31/12	1046.48
13N_10E32DCAD1_M91-50R		1055.84(1)	3/15/11	1042.19	8/16/11	1044.16	10/28/11	NM	3/14/12	1040.23	8/27/12	1039.52	10/31/12	1044.43
13N_10E32DDBC1_M91-54R		1055.34(1)	3/15/11	1045.91	8/16/11	1047.66	10/28/11	NM	3/14/12	1045.27	9/5/12	1040.57	10/31/12	1046.80
14N_10E5CBDD1(V1)		1103.40(3)	3/29/11	NM	8/29/11	1093.89	NM	NM	3/29/12	NM	8/27/12	NM	10/30/12	NM
14N_8E14CC1		1175.85(5)	4/12/11	1143.67	8/26/11	NM	10/25/11	1144.79	3/29/12	NM	8/27/12	NM	10/24/12	1143.19
14N_8E24ACD2_MEAD		1175.09(5)	3/29/11	NM	8/26/11	NM	10/25/11	1134.70	3/9/12	1134.88	8/27/12	NM	10/30/12	NM
14N_8E27BAAB1		1167.67(5)	3/29/11	1132.65	8/26/11	NM	10/28/11	1133.18	3/29/12	1133.17	8/27/12	NM	10/30/12	NM
14N_8E2ADDA1		1205 (2)	3/29/11	1177.95	8/26/11	NM	10/28/11	1180.28	3/29/12	1179.82	8/27/12	NM	10/30/12	NM
14N_8E36DD1		1151.80(5)	4/12/11	1102.71	8/26/11	NM	10/25/11	1102.71	NM	NM	8/27/12	NM	10/24/12	1101.74
14N_8E3AACC1		1194.51(5)	3/28/11	1173.67	8/26/11	NM	10/27/11	1176.00	3/28/12	1175.46	8/27/12	NM	10/30/12	NM
14N_9E20DD1		1160.64(5)	3/29/11	NM	8/26/11	NM	10/25/11	1110.04	NM	NM	8/27/12	NM	10/24/12	1108.19
14N_9E26CBAB1		1082 (2)	3/29/11	1081.02	8/26/11	NM	10/28/11	1080.20	3/29/12	1080.85	8/27/12	NM	10/30/12	NM
14N_9E32DD1		1137.03(5)	3/29/11	NM	8/26/11	NM	10/25/11	1094.24	NM	NM	8/27/12	NM	10/24/12	1092.98
14N_9E4BD1		1254.51(5)	3/28/11	1156.65	8/26/11	NM	10/28/11	NM	NM	NM	8/27/12	NM	10/30/12	NM

Notes:

Bold location identifications indicate removal from site wide water levels following the March 2011 water level measurement event

(1) Ground surface elevation from LWS
(2) Ground surface elevation from USGS reference elevation
(3) Ground surface elevation from DEM
(4) Location from DNR registration database
(5) Location and ground surface elevation from USACE survey
(6) Location from USGS on-line water level database

AMSL = above mean sea level
EW = Extraction Well
FEW = Focused Extraction Well
ft = feet
LPNNRD = Lower Platte North Natural Resources District
NM = Not Measured
MW = Monitoring Well

M.U.D. = Metropolitan Utilities District
OW =Observation Well
USGS = United States Geological Survey
PZ = Piezometer
TH = Test Hole
TOC= Top of Casing

USGS Source: http://nwis.waterdata.usgs.gov/ne/nwis/gwlevels?search_criteria=search_station_nm&submitted_form=introductior

Table 2-4
USGS Stream Gauge Statistics
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Stream	USGS Gauge Location	Period of Record	Exceedance Frequency (percent)	Flow (cfs)	Flow (MGD)
Platte River	Leshara	2000 to 2012	99	354	229
			90	1,320	853
			50	3,700	2,391
	Ashland	2000 to 2012	99	490	317
			90	1,800	1,163
			50	5,160	3,335
Elkhorn River	Waterloo	2000 to 2012	99	193	125
			90	548	354
			50	1,240	801
Johnson Creek	Memphis	2000 to 2011*	99	0.5	0.3
			90	0.8	0.5
			50	1.4	0.9
Wahoo Creek	Ithaca	2000 to 2012	99	13	8.4
			90	18	11.6
			50	43	27.8
	Ashland	2000 to 2012	99	23	14.9
			90	33	21.3
			50	73	47.2
Silver Creek - Ithaca	Ithaca	1949 to 1958*	99	1.6	1.0
			90	2.7	1.7
			50	5.0	3.2

Notes: USGS - U.S. Geological Survey
cfs - Cubic feet per second
MGD - Million Gallons per Day
NOP - Nebraska Ordnance Plant
*This site has been discontinued.

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Table 2-5
Surface Water Elevation Measurements March 2011 - October 2012
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Description	Easting (NAD 83)	Northing (NAD 83)	Monitoring Point (NAVD88)*	Date	Measurment to Water (feet) March 2011	Water Elevation (ft AMSL) March 2011	Date	Measurment to Water (feet) August 2011	Water Elevation (ft AMSL) August 2011	Date	Measurment to Water (feet) October 2011	Water Elevation (ft AMSL) October 2011	Date	Measurment to Water (feet) March 2012	Water Elevation (ft AMSL) March 2012	Date	Measurment to Water (feet) August 2012	Water Elevation (ft AMSL) August 2012	Date	Measurment to Water (feet) October 2012	Water Elevation (ft AMSL) October 2012
Platte River																					
USGS 06796550 Platte River near Venice, Nebr*	2647109.18	518421.66	1090.00	3/29/11	12.46	1102.46	8/26/11	11.86	1101.86	10/28/11	11.76	1101.76	3/29/12	12.47	1102.47	8/27/12	10.12	1100.12	10/30/12	11.39	1101.39
USGS 06801000 Platte River near Ashland, Nebr.*	2653340.91	469165.64	1040.34	3/29/11	16.87	1057.21	8/26/11	15.81	1056.15	10/28/11	16.13	1056.47	3/29/12	16.48	1056.82	8/27/12	13.75	1054.09	10/30/12	15.48	1055.82
Elkhorn River																					
USGS 06800500 Elkhorn River at Waterloo, Nebr*	2660970.08	553789.85	1105.13	3/29/11	4.02	1109.15	8/26/11	3.28	1108.41	10/28/11	3.02	1108.15	3/29/12	3.98	1109.11	8/27/12	1.04	1106.17	10/30/12	1.30	1106.43
MUD Elk Horn River-1	2658801.15	521384.22	1117.50	3/29/11	NM	NM	8/26/11	25.95	1091.55	10/28/11	NM	NM	3/29/12	21.30	1096.20	8/27/12	29.03	1146.53	10/30/12	NM	NM
Wahoo Creek																					
MUD Wahoo-5-Bridge-Rail-N	2561971.29	554785.08	1248.50	3/29/11	22.30	1226.20	8/26/11	19.95	1228.55	10/28/11	NM	NM	3/29/12	21.30	1227.20	8/27/12	NM	NM	10/30/12	NM	NM
USGS 06804000 Wahoo Creek at Ithaca, Nebr.*	2593410.59	497778.58	1110.90	3/29/11	4.48	1115.38	8/26/11	4.53	1115.43	10/28/11	4.08	1114.98	3/29/12	4.50	1115.40	8/27/12	4.06	1114.96	10/30/12	4.09	1114.99
MUD Wahoo Creek-2	2603461.18	492183.23	1122.52	3/29/11	22.80	1099.72	8/26/11	22.70	1099.82	10/28/11	NM	NM	3/29/12	23.90	1098.62	8/27/12	24.22	1146.74	10/30/12	NM	NM
MUD Wahoo-1	2621893.97	477485.72	1097.78	3/29/11	22.15	1075.63	8/26/11	22.00	1075.78	10/28/11	NM	NM	3/29/12	23.40	1074.38	8/27/12	23.76	1121.54	10/30/12	NM	NM
USGS 06804700 Wahoo Creek at Ashland, Nebr.*	2641613.33	465530.43	1049.11	3/29/11	5.18	1054.29	8/26/11	4.98	1054.09	10/28/11	4.68	1053.79	3/29/12	5.00	1054.11	8/27/12	4.04	1053.15	10/30/12	4.15	1053.26
Silver Creek																					
MUD Silver Creek-5	2584075.71	555659.62	1224.91	3/29/11	10.30	1214.61	8/26/11	9.65	1215.26	10/28/11	NM	NM	3/29/12	10.90	1214.01	8/27/12	10.19	1235.10	10/30/12	NM	NM
MUD Silver Creek-4	2589964.55	534711.40	1195.72	3/29/11	13.65	1182.07	8/26/11	NM	NM	10/28/11	NM	NM	3/29/12	NM	NM	8/27/12	NM	NM	10/30/12	NM	NM
Gauge-4 Silver Creek Guard-Rail-S	2590016.26	529380.83	1187.27	3/29/11	14.95	1172.32	8/26/11	13.22	1174.05	10/28/11	NM	NM	3/29/12	13.10	1174.17	8/27/12	13.42	1200.69	10/30/12	NM	NM
Gauge-3 Silver Creek Bridge-Deck-N	2593062.03	508611.85	1153.30	3/29/11	18.20	1135.10	8/26/11	NM	NM	10/28/11	NM	NM	3/29/12	19.10	1134.20	8/27/12	19.47	1172.77	10/30/12	NM	NM
MUD Silver Creek-2	2599185.42	497967.86	1125.99	3/29/11	12.10	1113.89	8/26/11	NM	NM	10/28/11	NM	NM	3/29/12	9.60	1116.39	8/27/12	9.16	1135.15	10/30/12	NM	NM
Gauge-2 Silver Creek Steel-Border-E	2597941.78	498699.95	1124.80	3/29/11	NM	NM	8/26/11	NM	NM	10/28/11	NM	NM	3/29/12	NM	NM	8/27/12	NM	NM	10/30/12	NM	NM
Gauge-1 Silver Creek	2609218.05	492882.27	1103.88	3/29/11	10.60	1093.28	8/26/11	11.25	1092.63	10/28/11	NM	NM	3/29/12	12.50	1091.38	8/27/12	11.22	1115.10	10/30/12	NM	NM
Clear Creek																					
CC-2-Bridge-Rail-N	2641598.79	520655.68	1108.00	3/29/11	7.60	1100.40	8/26/11	15.64	1092.36	10/28/11	NM	NM	3/29/12	8.70	1099.30	8/27/12	7.98	1115.98	10/30/12	NM	NM
CC-1-Bridge-Deck-N	2638802.49	504656.44	1088.80	3/29/11	10.50	1078.30	8/26/11	11.75	1077.05	10/28/11	NM	NM	3/29/12	11.30	1077.50	8/27/12	11.82	1100.62	10/30/12	NM	NM
MUD Clear Creek-1	2637598.46	499320.48	1084.68	3/29/11	11.80	1072.88	8/26/11	NM	NM	10/28/11	NM	NM	3/29/12	12.80	1071.88	8/27/12	14.74	1099.42	10/30/12	NM	NM
CC-3-Bridge-Deck-N	2635065.12	493906.86	1082.90	3/29/11	14.41	1068.49	8/26/11	NM	NM	10/28/11	NM	NM	3/29/12	15.40	1067.50	8/27/12	10.24	1093.14	10/30/12	NM	NM
CC-4-Bridge-Deck-N	2637618.41	478158.50	1078.50	3/29/11	15.30	1063.20	8/26/11	NM	NM	10/28/11	NM	NM	3/29/12	16.50	1062.00	8/27/12	16.67	1095.17	10/30/12	NM	NM
Johnson Creek																					
USGS 06804900 Johnson Creek Near Memphis, NE*	2634921.48	499072.98	1070.38	3/29/11	14.20	NM	8/26/11	NM	NM	10/28/11	NM	NM	3/29/12	NM	NM	8/27/12	NM	NM	10/30/12	NM	NM
JC-2 Bridge Deck below BM#1	2634263.82	504476.59	1098.35	3/29/11	13.60	1084.75	8/26/11	NM	NM	10/28/11	NM	NM	3/29/12	14.60	1083.75	8/27/12	NM	NM	10/30/12	NM	NM

Notes:
AMSL = Above Mean Sea Level
ft = feet
CC = Clear Creek
JC = Johnson Creek
MUD = Omaha Metropolitan Utilities District
NAD 83 = North American Datum of 1983
NAVD 88 = North American Vertical Datum of 1988
NM = Not Measured
USGS = United States Geological Survey
*USGS Gauging data from http://waterdata.usgs.gov/ne/nwis/sw (Accessed January 2013)
Ground Surface Elevations taken from 2008 GWM Update Report Table 2.5-2
USGS Stream gage data is a stage elevation measured above the Gage Height (instead of below bridge deck)
Platte River at Leshara a did not have stage data for these corresponding dates

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Table 2-6
Platte River Flow Statistics
2012 Groundwater Model Report
Former NOP, Mead, Nebraska

	Platte at Ashland (cfs)	**Platte at Leshara (cfs)**	**Elkhorn at Waterloo (cfs)**	**Leshara + Waterloo (cfs)**
Average Monthly Flow (Oct. 2000 - Sept. 2012)	6373	4464	1904	6368
Historic Seven Day Minimum Flow	308	245	66	311

Notes:
cfs - cubic feet per second
NOP - Nebraska Ordnance Plant
USGS 2012 Water-Data Report (2013)

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Table 2-7
Monthly Total Precipitation (inches)
MEAD_6_S, NE (NWS Station 255362)
November 1968 to December 2012
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	0.95	1.88	2.83(1)
1969	0.55	1.01	0.67	3.21	3.29	4.37	2.37	2.71	0.83	2.34	0.15	1.19	22.69
1970	0.07	0.10	0.58	2.23	2.68	4.48	1.53	4.06	4.22	4.22	1.33	0.19	25.69
1971	0.01	1.22	0.31	0.97	7.78	2.83	1.50	1.00	0.71	4.41	2.40	0.59	23.73
1972	0.04	0.18	0.76	4.85	8.56	1.95	2.43	3.06	2.65	3.07	3.51	1.34	32.40
1973	1.05	0.35	5.09	2.34	4.96	1.95	5.72	0.53	6.30	4.15	1.90	1.36	35.70
1974	0.26	0.07	0.67	2.37	4.07	1.10	0.11	5.81	1.76	3.15	0.84	0.65	20.86
1975	0.61	0.97	1.38	2.71	2.73	3.45	0.93	2.13	1.21	0.00	2.51	0.76	19.39
1976	0.21	1.31	2.14	3.02	3.00	2.46	2.43	1.66	2.93	0.35	0.00	0.04	19.55
1977	0.33	0.27	2.60	2.20	4.54	1.69	1.54	6.84	3.54	5.30	1.84	0.31	31.00
1978	0.15	0.45	0.81	6.54	3.48	3.48	3.96	1.56	5.52	0.82	1.32	0.28	28.37
1979	0.90	0.27	3.40	3.12	3.04	2.46	2.82	2.73	0.74	5.02	1.20	NP	25.7(2)
1980	0.53	0.37	0.76	1.54	1.78	3.58	1.73	6.83	0.16	2.05	0.04	0.29	19.66
1981	0.07	0.09	0.66	2.02	4.33	1.57	3.29	7.51	2.31	1.25	3.31	0.31	26.72
1982	0.80	0.13	2.80	1.79	8.80	5.43	3.22	7.58	4.56	1.79	1.39	1.50	39.79
1983	1.09	0.41	3.75	0.87	4.87	7.03	0.78	2.42	2.83	1.62	3.47	0.18	29.32
1984	0.33	0.67	1.97	5.95	4.90	6.55	1.64	0.97	1.71	5.54	0.52	3.48	34.23
1985	0.12	0.55	0.85	2.96	NP	2.29	3.65	3.01	3.35	2.35	0.86	0.19	20.18(2)
1986	0.00	0.43	2.94	5.29	2.74	3.19	4.40	5.60	7.60	4.65	0.50	0.73	38.07
1987	0.00	0.09	4.13	1.41	6.22	1.67	3.84	8.68	1.86	0.68	1.23	0.58	30.39
1988	0.46	0.09	0.05	1.43	3.28	1.02	3.57	0.72	4.80	0.07	1.60	0.48	17.57
1989	0.80	0.60	0.06	0.99	0.85	4.14	4.16	1.62	4.48	0.85	0.05	0.66	19.26
1990	0.52	0.26	3.24	0.34	4.55	4.42	7.09	0.80	0.71	1.50	0.88	0.93	25.24
1991	0.85	0.28	3.49	2.65	2.89	9.94	3.05	1.80	2.52	1.03	2.59	2.01	33.10
1992	0.76	1.08	2.57	1.43	1.69	1.82	7.18	1.78	2.24	2.07	2.06	0.51	25.19
1993	0.84	0.56	1.70	3.41	4.02	7.94	9.85	7.14	3.70	1.34	0.70	0.21	41.41
1994	0.49	0.23	0.01	1.27	1.43	9.07	4.23	1.68	3.73	1.32	2.43	0.64	26.53
1995	0.77	0.41	2.44	4.29	5.70	1.31	1.03	1.34	2.49	1.36	0.48	0.35	21.97
1996	0.51	0.06	0.90	3.22	7.30	5.50	1.46	3.01	1.99	0.67	2.32	0.38	27.32
1997	0.24	0.95	0.72	2.45	1.12	2.53	3.03	2.03	4.24	3.46	2.44	0.42	23.63
1998	0.65	1.29	2.31	2.87	5.03	7.65	3.94	6.16	0.87	2.45	2.44	0.14	35.80
1999	0.32	0.84	1.31	5.61	6.16	5.06	2.84	3.64	3.17	0.00	0.98	0.68	30.61
2000	0.07	0.79	1.60	2.28	2.29	5.63	3.83	1.17	0.80	2.13	1.78	0.75	23.12
2001	1.13	1.25	1.04	2.15	8.84	1.82	0.87	2.50	2.90	2.40	2.21	0.24	27.35
2002	0.37	0.66	0.88	3.31	3.29	0.50	2.52	8.26	1.33	4.06	0.26	0.00	25.44
2003	0.42	1.00	0.75	2.87	5.17	4.05	0.95	1.70	3.58	1.72	2.83	0.59	25.63
2004	0.98	0.64	3.32	0.99	4.77	3.09	3.00	1.94	4.03	0.86	3.15	0.31	27.08
2005	0.95	2.85	0.66	3.61	2.74	3.47	3.97	0.77	0.99	1.69	1.15	1.02	23.87
2006	1.59	0.11	3.52	4.20	1.38	0.97	3.03	6.14	6.26	0.77	0.20	2.17	30.34
2007	0.53	1.83	2.45	4.65	6.87	2.45	1.65	10.15	2.99	4.75	0.00	2.08	40.40
2008	0.23	0.39	0.65	4.64	5.96	9.89	3.73	1.01	4.33	5.06	1.78	1.19	38.86
2009	0.27	0.47	0.32	1.63	1.20	6.49	2.62	7.27	1.55	4.34	0.00	2.65	28.81
2010	0.90	0.68	1.63	4.03	2.66	9.82	7.22	2.51	5.84	0.23	1.93	0.33	37.78
2011	0.91	0.30	0.59	3.22	7.61	5.57	3.32	5.47	0.89	0.84	1.43	1.33	31.48

Table 2-7
Monthly Total Precipitation (inches)
MEAD_6_S, NE (NWS Station 255362)
November 1968 to December 2012
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2012	0.16	1.84	0.62	2.81	3.80	4.24	0.26	0.91	1.18	1.36	0.25	1.06	18.49
Avg	0.52	0.65	1.66	2.86	4.24	4.09	3.10	3.55	2.87	2.25	1.45	0.84	28.19

Notes:

Avg - Average
(1) - Annual precipitation based on two months
(2) - Annual precipitation based on 11 months
NP - Not Provided
Data Source (1968-2008) - 2008 Groundwater Model Update
Data Source (2009-2012) - National Climatic Data Center
Station - 255362 MEAD_6_S, NE
NOP - Nebraska Ordnance Plant
NWS - National Weather Service

Table 2-8
Monthly Total Precipitation (inches)
ASHLAND_2, NE (NWS Station 250375)
January 1893 to December 2012
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1893	0.05	NP	0.85	NP	4.71	7.27	3.92	6.43	2.35	0.05	NP	0.65	26.28(2)
1894	0.26	0.72	0.62	2.01	0.92	5.03	NP	0.12	0.52	2.52	0.25	NP	12.97(3)
1895	0.14	0.38	0.48	2.31	2.62	NP	2.00	6.36	0.97	0.00	0.82	0.26	16.34(4)
1896	0.21	0.30	0.98	2.97	10.57	1.80	5.56	2.85	5.45	3.28	1.88	0.35	36.20
1897	0.32	0.43	1.23	7.29	2.12	2.31	1.66	1.44	NP	3.39	0.25	NP	20.44(3)
1898	0.31	NP	1.51	NP	NP	2.21	1.18	2.95	2.90	1.53	0.44	0.16	13.19(2)
1899	0.03	10.65	0.45	NP	4.34	10.65	3.54	NP	0.58	2.47	0.96	1.74	35.41(3)
1900	0.10	0.62	0.44	NP	2.27	3.15	6.52	6.07	2.76	4.27	0.00	0.68	26.88(4)
1901	0.13	0.42	NP	NP	NP	3.20	5.63	1.12	5.29	2.16	0.71	0.28	18.94(2)
1902	1.31	0.02	0.40	0.94	3.22	8.72	13.86	5.41	2.70	2.67	1.49	1.79	42.53
1903	0.00	1.16	0.50	3.88	NP	2.30	5.92	5.77	2.84	NP	0.50	0.00	22.87(3)
1904	0.50	0.05	0.74	4.46	5.96	2.74	3.40	3.71	2.36	1.44	0.27	0.30	25.93
1905	0.95	0.70	0.56	5.04	3.77	2.54	2.73	5.54	5.62	1.75	2.52	0.14	31.86
1906	0.48	1.05	2.00	3.74	1.90	5.93	4.68	3.09	5.74	2.05	0.40	1.94	33.00
1907	0.50	1.46	0.39	1.35	5.13	6.96	7.11	2.73	3.03	1.42	0.79	0.21	31.08
1908	0.35	2.00	0.69	1.13	5.20	11.86	6.80	3.59	0.31	2.61	0.63	0.16	35.33
1909	0.67	0.86	0.35	1.54	3.76	4.99	3.33	0.96	5.09	0.98	7.66	2.53	32.72
1910	0.87	0.23	0.09	0.11	2.74	1.42	0.67	5.55	2.69	0.88	0.02	0.39	15.66
1911	0.21	2.30	0.44	2.04	4.68	0.54	1.90	1.76	1.84	0.93	0.16	2.18	18.98
1912	0.17	1.14	2.07	1.46	0.40	3.65	2.00	3.43	5.31	3.04	0.68	0.09	23.44
1913	0.72	0.96	1.93	2.62	8.06	2.31	3.45	0.25	3.67	0.71	1.65	3.06	29.39
1914	0.30	0.54	2.21	2.64	4.35	7.72	2.02	1.00	3.72	2.58	0.05	0.88	28.01
1915	1.72	2.45	1.68	1.15	5.08	4.30	7.41	4.01	3.11	1.06	1.49	0.68	34.14
1916	1.26	0.40	0.64	1.13	3.25	3.15	1.66	4.45	0.76	0.98	0.86	0.37	18.91
1917	0.59	0.04	1.42	4.31	3.81	7.53	0.71	3.26	0.92	0.41	0.13	0.76	23.89
1918	0.62	0.86	0.23	0.66	3.39	1.94	3.83	1.06	1.09	4.49	2.61	0.77	21.55
1919	0.11	1.90	1.05	2.24	2.00	6.49	1.47	3.15	5.40	1.78	2.94	0.72	29.25
1920	0.24	0.71	0.59	3.00	3.11	3.21	3.64	2.74	0.78	3.56	1.43	1.00	24.01
1921	0.33	0.42	0.64	2.09	4.40	3.43	3.43	2.88	4.21	1.04	0.14	0.06	23.07
1922	0.80	0.32	1.38	1.81	2.25	2.44	4.48	1.73	1.95	1.23	2.81	0.08	21.28
1923	0.56	0.02	1.22	2.83	3.96	5.04	2.93	4.07	4.67	0.53	0.01	0.50	26.34
1924	0.38	0.96	1.20	0.33	1.84	5.48	5.78	1.17	2.18	0.79	0.31	1.36	21.78
1925	0.67	0.83	0.57	1.73	1.15	4.61	1.85	5.69	2.62	1.71	0.04	0.78	22.25
1926	0.82	0.60	0.85	0.46	2.31	2.74	2.05	5.17	8.34	1.20	2.11	1.09	27.74
1927	0.10	1.05	1.18	5.15	1.41	2.05	2.50	2.63	4.06	0.52	0.00	0.43	21.08
1928	0.05	0.81	0.48	1.25	2.09	5.46	4.51	4.76	3.29	2.44	3.56	0.08	28.78
1929	0.80	1.66	0.17	3.00	2.33	2.84	3.87	1.70	1.80	4.01	1.44	0.12	23.74
1930	0.84	0.35	0.47	2.51	2.57	3.32	1.96	5.50	1.32	0.47	1.78	0.23	21.32
1931	0.20	0.05	0.75	1.72	5.13	5.62	2.89	2.80	4.85	2.37	4.67	2.04	33.09
1932	2.93	0.64	0.59	1.11	3.06	6.26	1.67	7.29	2.14	1.61	0.05	0.52	27.87
1933	0.10	0.19	1.52	1.28	1.26	1.32	4.12	2.05	6.63	0.14	0.88	1.50	20.99
1934	0.98	0.43	0.62	0.00	0.38	2.34	0.47	1.46	2.43	1.71	2.84	0.77	14.43
1935	0.08	NP	NP	1.64	4.69	5.57	3.44	2.03	3.56	2.70	1.88	0.40	25.99(3)
1936	2.87	0.89	0.10	0.90	1.69	NP	0.05	1.74	5.48	0.23	0.15	0.73	14.83(4)
1937	0.79	0.09	1.95	NP	3.93	3.51	4.46	4.73	1.17	2.21	0.35	0.09	23.28(4)
1938	0.18	0.77	1.32	2.94	5.20	3.86	4.52	4.65	3.58	1.84	1.13	0.15	30.14

Table 2-8
Monthly Total Precipitation (inches)
ASHLAND_2, NE (NWS Station 250375)
January 1893 to December 2012
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1939	0.28	1.07	0.60	1.08	1.71	4.61	NP	2.08	0.61	2.61	0.00	2.12	16.77(4)
1940	0.94	1.12	1.16	1.95	0.78	5.43	0.93	5.21	1.27	1.99	1.67	1.25	23.70
1941	1.11	0.78	0.40	4.13	2.18	5.01	1.22	2.11	NP	1.25	1.28	2.49	21.96(4)
1942	0.27	0.88	2.72	0.39	3.56	3.20	1.94	2.60	4.81	0.95	0.18	1.08	22.58
1943	NP	0.63	0.89	1.69	3.66	6.37	5.36	2.61	1.83	1.25	0.55	0.00	24.84(4)
1944	0.75	1.08	1.63	9.76	4.58	5.45	NP	NP	NP	1.39	1.97	NP	26.61(1)
1945	0.52	2.52	1.83	4.73	6.55	6.56	6.18	1.63	NP	NP	NP	NP	30.52(1)
1946	NP	0.03	2.77	0.78	4.97	9.76	NP	NP	NP	3.81	2.13	0.06	24.31(1)
1947	NP	0.12	1.00	6.35	3.31	11.71	2.00	0.91	1.30	1.61	1.04	1.46	30.81(4)
1948	0.38	1.88	1.93	2.07	2.08	2.58	9.41	5.85	3.82	1.77	2.16	0.83	34.76
1949	2.94	0.89	1.13	0.96	4.70	7.13	2.65	2.56	3.51	1.68	0.03	0.21	28.39
1950	0.73	1.46	0.56	1.18	3.54	1.00	5.20	4.06	0.60	2.64	0.50	0.13	21.60
1951	0.58	2.03	3.21	5.19	4.90	7.92	3.56	7.24	2.06	1.97	0.28	0.95	39.89
1952	0.48	0.83	2.83	3.75	3.48	5.08	1.65	6.48	0.81	0.00	3.95	1.16	30.50
1953	0.63	1.08	2.14	3.63	2.12	3.43	3.05	1.92	0.70	0.32	2.12	1.30	22.44
1954	0.11	2.38	0.80	2.24	4.84	NP	0.45	9.18	1.47	3.04	0.00	NP	24.51(3)
1955	1.20	0.62	0.62	2.28	1.02	4.72	0.63	1.02	4.69	0.51	0.11	0.19	17.61
1956	NP	NP	0.12	1.22	1.12	4.36	2.93	3.10	2.93	1.32	1.36	0.11	18.57(3)
1957	0.31	0.15	3.02	1.85	3.24	6.21	3.86	5.71	1.26	3.56	2.27	0.52	31.96
1958	0.96	1.51	1.05	2.96	1.60	0.99	11.20	5.29	6.06	0.10	0.83	0.00	32.55
1959	0.45	0.58	3.79	2.68	10.70	2.10	5.64	5.24	3.06	2.31	0.34	0.60	37.49
1960	1.57	1.30	0.85	2.58	3.93	5.73	4.23	6.55	4.15	0.86	0.27	0.24	32.26
1961	0.23	0.55	2.89	2.00	3.11	1.57	2.88	4.41	5.04	2.50	1.71	0.71	27.60
1962	0.38	1.51	0.97	0.85	4.72	3.18	7.60	3.93	2.95	2.53	0.74	0.53	29.89
1963	0.65	0.28	2.20	1.71	2.71	6.73	2.14	3.18	5.19	0.39	0.28	0.38	25.84
1964	0.20	0.30	1.29	5.54	4.16	10.38	5.01	3.85	4.37	0.36	1.06	0.65	37.17
1965	0.29	2.05	2.95	3.61	9.18	8.11	6.02	2.49	11.63	0.50	1.07	1.08	48.98
1966	0.65	0.49	0.70	1.08	2.66	NP	4.96	3.46	2.04	0.59	0.24	0.53	17.4(4)
1967	0.42	0.13	1.36	2.19	2.62	13.29	1.72	1.32	3.34	3.23	NP	0.77	30.39(4)
1968	NP	NP	0.31	3.10	3.89	2.34	3.63	5.51	5.33	4.01	0.79	1.44	30.35(3)
1969	0.71	0.94	0.84	4.74	4.60	3.57	2.78	2.26	1.30	2.00	0.22	1.46	25.42
1970	0.13	0.10	0.68	2.39	2.39	2.66	2.56	2.85	5.59	3.42	1.14	0.17	24.08
1971	0.64	2.57	0.46	0.46	9.79	2.56	1.22	2.75	0.75	4.61	2.91	0.96	29.68
1972	0.03	0.23	0.91	5.45	7.68	2.01	2.25	3.51	2.70	3.41	3.59	1.40	33.17
1973	1.86	0.65	5.66	2.74	5.76	1.68	5.24	0.28	7.78	3.62	2.10	1.75	39.12
1974	0.55	0.28	0.80	2.52	3.83	1.34	0.27	5.42	0.75	2.24	1.25	0.54	19.79
1975	1.18	1.01	1.62	2.60	2.68	4.34	1.05	5.36	1.53	0.08	3.40	0.52	25.37
1976	0.40	1.36	2.46	4.08	3.71	1.02	2.32	0.96	3.09	0.71	0.00	0.07	20.18
1977	0.51	0.22	2.18	2.34	5.77	2.13	1.84	10.41	1.80	3.16	1.72	0.24	32.32
1978	0.29	0.94	1.15	7.25	4.43	2.18	6.62	2.10	4.17	1.18	1.41	0.30	32.02
1979	1.31	0.37	3.53	2.68	1.93	3.54	3.14	2.33	1.01	4.63	1.27	0.37	26.11
1980	NP	0.42	1.46	1.78	0.97	5.70	2.07	8.13	0.39	2.11	0.07	0.81	23.91(4)
1981	0.00	0.45	0.96	1.99	3.56	2.13	2.63	8.59	1.35	2.38	2.77	1.39	28.20
1982	0.79	0.23	2.34	1.83	9.68	3.11	3.30	7.60	3.61	1.82	1.96	1.90	38.17
1983	0.94	0.69	3.96	1.42	3.73	8.22	0.28	2.89	2.79	1.78	2.58	0.63	29.91
1984	0.47	0.78	2.74	5.43	4.87	6.62	1.69	1.01	1.22	4.34	1.12	4.03	34.32

Table 2-8
Monthly Total Precipitation (inches)
ASHLAND_2, NE (NWS Station 250375)
January 1893 to December 2012
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1985	0.29	0.68	1.60	2.63	6.08	1.89	4.37	3.28	3.98	1.91	0.57	0.36	27.64
1986	0.00	0.76	2.75	6.17	3.11	3.54	4.95	6.96	7.13	5.64	0.83	1.09	42.93
1987	0.03	0.19	5.05	1.86	7.96	3.15	2.08	11.86	1.45	0.75	1.88	0.72	36.98
1988	0.49	0.19	0.02	2.08	3.43	2.06	3.04	1.60	4.03	0.10	1.82	0.73	19.59
1989	0.98	0.85	0.16	1.07	0.56	5.08	2.78	2.47	5.11	1.47	0.00	0.41	20.94
1990	0.58	0.24	2.54	0.52	4.79	3.41	7.10	1.98	0.61	1.65	1.28	1.17	25.87
1991	1.35	0.25	2.65	3.98	3.78	4.84	3.20	2.61	1.13	1.61	3.01	1.70	30.11
1992	1.52	0.81	2.68	2.98	1.81	1.62	7.66	2.58	2.93	2.39	2.17	1.20	30.35
1993	1.66	0.94	2.36	2.93	6.21	6.54	15.81	8.81	3.21	1.82	1.01	0.50	51.80
1994	0.58	0.79	0.00	1.23	2.10	8.66	4.68	1.07	2.90	1.63	1.90	1.41	26.95
1995	1.16	0.52	2.90	4.27	7.70	1.73	1.16	1.08	2.80	1.13	1.00	0.35	25.80
1996	1.21	0.05	0.99	3.65	7.85	3.56	2.97	3.08	2.70	1.04	2.48	0.53	30.11
1997	0.48	0.85	0.55	2.91	1.67	3.84	3.82	1.90	2.43	5.32	2.54	0.55	26.86
1998	0.89	1.09	3.40	2.83	7.91	6.76	2.78	4.83	0.75	2.71	2.38	0.30	36.63
1999	0.55	1.25	1.40	6.08	7.40	3.72	4.91	4.16	2.45	0.00	0.90	0.70	33.52
2000	0.10	1.39	1.33	1.36	2.24	5.09	3.61	1.12	0.88	2.53	2.83	1.25	23.73
2001	1.32	2.58	0.88	1.72	10.07	1.25	0.60	1.62	2.88	2.85	1.86	0.50	28.13
2002	0.61	0.68	1.20	2.44	4.60	1.43	0.78	9.06	1.14	3.66	0.33	0.00	25.93
2003	0.51	1.45	0.83	2.59	3.56	3.42	0.98	1.46	2.57	1.47	2.68	1.09	22.61
2004	1.70	0.94	3.74	1.20	3.45	3.35	3.72	1.55	4.30	0.43	2.71	0.28	27.37
2005	1.28	2.65	0.65	4.46	2.21	3.51	6.15	0.55	0.35	1.79	1.14	0.86	25.60
2006	1.05	0.17	1.92	3.93	1.26	0.88	1.77	8.41	4.14	0.68	0.02	2.25	26.48
2007	1.08	1.73	3.27	5.06	5.24	2.23	1.51	8.37	2.66	4.96	0.08	2.05	38.24
2008	0.35	0.69	1.05	4.23	6.30	8.62	4.36	0.68	3.92	4.97	1.08	0.80	37.05
2009	0.35	0.68	0.53	1.98	1.95	8.78	2.46	5.56	1.60	3.83	0.04	2.36	30.12
2010	0.94	0.76	1.65	NP	3.21	8.94	6.83	2.45	6.00	NP	2.09	0.32	33.19(3)
2011	1.08	0.35	0.60	4.10	4.02	4.69	4.33	6.23	0.83	0.84	1.33	1.22	29.62
2012	0.12	2.19	1.04	4.07	4.15	4.17	0.24	0.50	1.65	1.84	0.26	1.57	21.80
Avg	0.66	0.94	1.41	2.69	3.92	4.43	3.58	3.70	2.98	1.96	1.30	0.84	28.57

Notes:

(1) - Annual precipitation based on eight months
(2) - Annual precipitation based on nine months
(3) - Annual precipitation based on 10 months
(4) - Annual precipitation based on 11 months
NP - Not Provided
Avg - Average
Data Source (1968-2008) - 2008 Groundwater Model Update
Data Source (2009-2012) - National Climatic Data Center
NOP - Nebraska Ordnance Plant
NWS - National Weather Service
Station - 250375 ASHLAND_2, NE

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Table 2-9
Monthly Total Precipitation (inches)
MEAD (AWDN Station a255369) May 1981 to December 2012
2012 Groundwater Model Update
Former NOP, Mead Nebraska

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1981	NM	NM	NM	NM	0.43	1.85	3.35	5.13	1.69	1.08	3.41	0.59	17.54
1982	0.71	0.32	0.04	0.00	8.77	3.48	2.78	6.77	4.53	3.50	1.12	1.29	33.30
1983	0.97	0.96	2.09	0.12	3.86	4.61	1.50	2.13	3.07	1.68	0.13	0.27	21.36
1984	0.00	0.67	2.69	6.05	4.76	7.62	1.54	1.30	1.97	5.83	0.66	3.03	36.12
1985	0.18	0.67	1.61	4.68	4.53	3.06	5.03	2.27	4.49	2.05	0.70	0.00	29.25
1986	0.00	1.00	3.22	6.66	4.65	3.98	6.10	6.02	8.31	5.12	0.83	0.15	46.03
1987	0.00	0.00	5.96	1.69	4.27	1.73	3.07	10.04	1.73	1.62	0.84	0.86	31.80
1988	0.86	0.00	0.00	1.47	4.51	0.75	3.94	0.43	6.62	0.24	1.77	0.34	20.92
1989	0.72	0.49	0.00	0.61	1.56	5.39	2.87	1.69	4.61	1.14	0.00	0.21	19.30
1990	0.32	0.12	0.59	0.00	1.22	4.14	7.48	0.84	0.59	1.69	0.73	0.81	18.53
1991	0.89	0.47	1.66	2.44	2.87	9.24	2.73	1.38	2.72	2.52	1.92	2.07	30.90
1992	0.85	0.95	2.95	1.10	1.89	1.57	7.28	1.69	2.16	2.29	1.90	1.01	25.65
1993	0.97	1.19	1.92	1.97	2.64	7.72	6.81	5.13	3.49	1.30	0.40	0.20	33.73
1994	0.44	0.32	0.00	1.26	1.38	8.41	3.50	1.61	3.70	1.06	2.11	0.60	24.39
1995	0.74	0.30	2.13	4.71	5.31	0.99	1.10	1.42	2.28	1.31	0.26	0.27	20.81
1996	0.42	0.00	0.70	3.47	6.81	4.77	1.47	2.63	1.85	0.67	2.12	0.21	25.12
1997	0.00	0.74	0.67	1.89	1.18	2.01	2.87	2.08	4.61	3.43	2.38	0.23	22.08
1998	1.33	0.00	2.19	2.63	5.08	6.92	3.72	3.72	1.02	2.20	2.35	0.00	31.17
1999	0.27	0.65	1.33	5.34	6.51	5.76	1.77	2.62	3.70	0.00	0.97	0.49	29.40
2000	0.00	1.45	0.67	2.13	2.50	5.75	3.98	1.10	0.59	2.48	1.46	0.49	22.59
2001	0.96	1.19	0.85	2.32	8.35	1.61	0.79	2.20	2.16	2.09	2.16	0.16	24.85
2002	0.65	0.39	0.87	2.79	2.95	0.51	1.42	7.36	1.14	3.27	0.16	0.00	21.52
2003	0.32	0.92	0.64	2.64	4.92	3.50	0.31	1.30	2.91	1.61	2.38	0.58	22.04
2004	0.89	1.11	2.75	0.90	4.29	3.27	2.32	1.57	3.98	0.67	2.86	0.32	24.92
2005	0.77	2.76	0.43	3.17	3.21	2.56	3.95	0.52	1.19	1.55	1.44	0.54	22.08
2006	1.48	0.00	3.13	4.15	1.19	0.91	3.25	5.84	5.43	0.74	0.18	2.35	28.65
2007	0.16	2.08	2.35	3.47	6.28	1.58	1.35	9.11	2.51	4.22	0.41	1.61	35.13
2008	0.13	0.35	1.51	3.89	5.38	9.21	4.41	0.75	3.86	4.65	1.39	1.12	36.66
2009	0.00	0.40	0.25	1.39	1.00	4.22	2.80	5.46	1.15	4.08	0.00	2.54	23.29
2010	0.78	0.00	0.00	3.20	2.24	8.35	6.51	2.63	4.82	0.01	1.90	0.00	30.44
2011	0.00	0.00	0.00	3.14	7.59	5.21	3.12	4.28	1.17	0.79	1.20	0.00	26.50
2012	0.00	0.00	0.00	0.73	3.41	3.88	0.10	0.89	0.99	1.29	0.08	0.00	11.37
AVERAGE	0.51	0.63	1.39	2.58	3.92	4.20	3.23	3.19	2.97	2.07	1.26	0.70	26.48

Notes:

Annual precipitation for 1981 represents May-December.

Average annual precipitation for station represents 1982-2012.

AWDN - Automated Weather Data Network

NM - not measured

NOP - Nebraska Ordnance Plant

Source - High Plains Regional Climate Center, Automated Weather Data Network (awdn) Station a255369

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Table 2-10
Monthly Total Precipitation (inches)
MEADTURFFARM (AWDN Station a255368) January 1986 to December 2012
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1986	0.00	0.54	2.74	5.44	2.93	3.24	4.54	7.66	10.01	6.67	1.05	0.57	45.38
1987	0.00	0.00	4.77	2.52	5.47	1.54	3.27	8.82	1.54	1.34	0.92	0.82	31.01
1988	0.56	0.00	0.11	1.44	4.13	1.32	4.78	0.69	5.44	0.67	1.82	0.41	21.35
1989	0.74	0.65	0.00	0.68	0.91	6.26	2.13	1.77	4.41	0.84	0.00	0.21	18.60
1990	0.41	0.27	2.83	0.28	4.57	6.26	7.60	0.71	0.97	1.76	0.88	0.85	27.37
1991	0.92	0.56	3.42	2.53	6.24	6.56	2.76	1.62	2.60	3.14	1.49	2.12	33.96
1992	0.68	0.93	2.78	1.69	2.32	2.58	6.89	1.65	2.30	2.20	2.20	0.72	26.95
1993	0.88	0.80	2.38	3.04	4.11	7.45	9.24	5.28	2.76	3.78	0.41	0.31	40.44
1994	0.47	0.35	0.00	1.98	1.79	9.19	3.98	1.46	3.56	1.38	2.08	0.84	27.07
1995	0.77	0.25	1.99	4.22	5.28	1.03	0.91	1.53	1.69	0.91	0.40	0.35	19.32
1996	0.46	0.00	0.94	2.91	7.05	4.45	1.18	2.56	1.50	0.61	2.22	0.10	23.98
1997	0.00	0.71	0.61	2.09	0.67	2.32	3.23	1.99	4.60	3.50	2.29	0.21	22.21
1998	1.36	0.10	2.40	2.60	3.90	6.58	2.91	4.41	0.47	1.97	2.07	0.11	28.87
1999	0.27	1.00	1.49	5.31	4.93	5.42	1.97	2.87	3.11	0.00	0.97	0.42	27.78
2000	0.00	1.59	0.83	1.81	2.13	5.71	4.49	1.06	0.59	2.95	1.38	0.66	23.20
2001	0.90	1.53	0.79	2.17	9.17	1.57	0.22	2.30	2.37	1.93	2.10	0.28	25.31
2002	0.75	0.43	0.91	3.58	2.87	0.43	1.89	8.40	1.34	3.66	0.16	0.00	24.42
2003	0.34	0.95	0.69	2.36	4.72	2.72	0.67	1.26	2.56	1.46	1.66	0.68	20.06
2004	1.33	1.17	2.80	0.98	4.41	3.50	3.17	1.73	3.98	0.35	2.89	0.32	26.63
2005	0.82	2.72	0.44	3.52	3.16	2.74	3.87	0.87	1.48	1.69	1.42	0.53	23.25
2006	1.31	0.00	2.89	3.81	1.19	0.80	3.06	5.63	5.43	0.68	0.17	2.32	27.29
2007	0.31	2.06	2.73	3.49	7.18	1.85	2.11	7.01	2.39	4.19	0.34	1.67	35.34
2008	0.14	0.41	1.39	3.71	5.59	9.15	4.33	0.96	3.92	4.96	1.46	1.04	37.06
2009	0.00	0.44	0.37	1.44	1.35	5.33	2.67	5.32	1.22	4.39	0.00	2.55	25.07
2010	0.77	0.00	0.00	3.34	2.08	8.53	6.16	2.81	5.28	0.23	1.60	0.00	30.80
2011	0.00	0.00	0.00	3.01	6.45	5.49	3.15	3.08	0.37	0.82	1.22	0.00	23.59
2012	0.00	0.00	0.00	0.64	3.34	3.96	0.10	0.88	0.89	1.31	0.08	0.00	11.20
AVERAGE	0.52	0.65	1.49	2.61	4.00	4.30	3.38	3.12	2.84	2.13	1.23	0.67	26.94

Notes:
AWDN - Automated Weather Data Network
NOP - Nebraska Ordnance Plant
Source - High Plains Regional Climate Center, Automated Weather Data Network (AWDN) Station a255368

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Table 2-11
Monthly Total Precipitation (inches)
MEADAGROFARM (AWDN Station a255367) January 1994 to December 2012
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1994	0.48	0.41	0.00	3.43	1.69	11.56	1.68	2.12	7.79	1.12	1.98	0.96	33.22
1995	0.81	0.24	2.06	4.68	5.66	1.31	0.81	1.34	2.25	1.30	0.56	0.12	21.13
1996	0.51	0.00	0.85	3.04	7.00	2.71	0.35	1.00	2.05	0.80	2.40	0.00	20.70
1997	0.23	0.72	0.60	2.25	0.71	2.88	5.52	2.27	4.01	3.76	2.48	0.24	25.67
1998	1.69	0.24	2.66	1.95	4.01	6.31	3.87	6.16	0.89	2.43	2.00	0.23	32.44
1999	0.37	1.25	1.38	5.56	5.86	5.03	2.19	3.16	2.76	0.00	0.67	0.54	28.77
2000	0.00	1.49	0.66	2.01	2.77	5.99	3.47	1.33	0.61	2.55	1.52	0.72	23.12
2001	1.02	1.59	0.76	1.80	9.04	1.58	0.98	3.11	2.63	2.10	2.08	0.36	27.05
2002	0.75	0.45	1.02	2.72	2.96	0.80	1.24	6.59	1.41	3.65	0.25	0.00	21.84
2003	0.36	1.14	0.65	2.95	4.62	2.60	1.26	1.14	2.09	1.54	2.28	0.81	21.44
2004	1.32	1.18	2.65	1.13	3.94	2.67	2.33	1.00	3.51	0.71	3.05	0.29	23.77
2005	0.89	2.97	0.47	3.25	3.54	3.27	4.12	1.20	1.25	1.78	1.39	0.54	24.67
2006	1.16	0.00	2.55	3.76	0.89	1.17	3.11	5.58	5.29	0.76	0.11	2.37	26.75
2007	0.40	1.94	2.74	3.39	5.68	1.44	1.91	8.43	3.34	4.58	0.26	1.74	35.86
2008	0.14	0.46	1.96	3.99	5.61	11.31	4.33	0.56	3.78	4.51	1.07	0.87	38.59
2009	0.00	0.45	0.41	1.52	1.61	5.48	2.80	6.09	1.89	3.71	0.00	2.51	26.47
2010	0.76	0.00	0.00	3.59	2.48	8.75	6.87	3.81	4.21	0.23	1.79	0.00	32.49
2011	0.00	0.00	0.00	3.24	6.33	5.05	2.89	3.46	0.77	0.62	1.36	0.00	23.72
2012	0.00	0.00	0.00	0.72	3.15	3.64	0.08	0.56	1.33	1.37	0.08	0.00	10.93
AVERAGE	0.57	0.76	1.13	2.89	4.08	4.40	2.62	3.10	2.73	1.97	1.33	0.65	26.24

Notes:

AWDN- Automated Weather Data Network

NOP - Nebraska Ordnance Plant

Source - High Plains Regional Climate Center, Automated Weather Data Network (AWDN) Station a255367

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Table 2-12
Total Potential Evapotranspiration (inches)
MEAD (AWDN Station a255369) May 1981 to December 2012
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1981	NM	NM	NM	NM	3.59	7.17	7.10	5.95	4.89	3.84	2.90	1.07	36.52
1982	2.31	2.97	3.79	6.01	6.22	8.79	6.86	6.40	5.47	4.32	2.04	0.87	56.06
1983	1.03	1.89	4.43	5.05	6.03	7.37	7.03	6.36	5.65	4.02	0.98	0.93	50.79
1984	1.67	2.16	4.06	5.72	7.04	7.08	5.25	5.34	5.09	2.93	1.02	0.86	48.20
1985	0.96	0.94	2.47	4.35	5.75	6.85	5.70	5.67	4.28	3.38	1.60	1.44	43.38
1986	8.02	7.79	4.68	5.39	4.60	2.97	0.88	0.76	0.87	1.96	5.89	7.59	51.39
1987	7.64	7.28	6.23	3.77	3.39	2.46	1.10	0.86	0.75	2.22	2.65	5.72	44.06
1988	6.52	8.15	7.58	6.03	3.88	1.13	0.46	0.45	0.98	1.42	2.64	5.38	44.60
1989	6.60	7.89	8.97	7.06	4.12	2.88	1.70	1.30	1.42	3.32	5.41	6.18	56.85
1990	7.69	8.88	5.67	4.92	3.16	1.99	0.81	1.98	1.65	2.49	5.81	6.74	51.79
1991	7.20	7.79	7.06	4.35	3.64	2.13	1.39	1.13	2.81	3.39	4.49	10.04	55.41
1992	7.87	7.54	7.92	4.66	5.45	3.00	1.67	1.41	1.63	4.61	7.76	10.16	63.68
1993	10.54	8.19	8.46	7.38	4.95	3.41	1.77	1.96	2.01	2.06	6.21	8.99	65.91
1994	1.25	1.67	5.04	7.22	9.59	7.32	7.22	5.86	5.89	3.45	2.31	0.70	57.52
1995	0.84	2.32	3.14	4.47	4.79	7.90	8.68	7.30	5.40	5.00	2.26	1.20	53.28
1996	1.36	2.94	4.32	7.19	4.03	7.57	6.34	4.47	3.91	4.55	1.27	0.93	48.88
1997	1.40	1.38	5.03	4.21	7.72	7.69	7.13	5.35	4.91	3.90	1.58	0.90	51.20
1998	0.72	1.19	1.75	5.36	7.14	6.50	5.94	5.10	5.70	3.24	2.07	2.01	46.71
1999	1.19	2.43	4.14	4.15	6.35	5.79	7.80	5.27	4.98	5.54	3.55	1.49	52.67
2000	1.82	2.51	3.93	6.13	7.96	8.73	6.54	6.09	7.53	4.31	1.59	1.06	58.20
2001	1.18	1.11	2.68	6.55	7.56	8.63	6.97	7.06	4.79	4.50	2.81	1.65	55.48
2002	2.41	2.16	3.25	6.14	7.76	10.24	8.87	6.90	5.70	2.99	2.26	1.92	60.60
2003	1.75	1.44	4.33	6.15	6.48	6.68	7.87	6.85	5.59	4.66	2.39	1.43	55.64
2004	1.42	1.70	4.09	7.10	7.69	6.68	5.74	6.07	7.18	4.08	1.83	1.76	55.31
2005	0.82	1.77	4.71	6.00	8.20	8.18	8.38	5.68	6.21	4.32	2.88	0.87	58.02
2006	2.34	2.73	3.37	6.23	8.79	9.09	7.97	5.26	4.45	3.91	2.52	1.85	58.50
2007	1.29	1.30	3.75	5.79	7.09	7.20	7.24	5.47	5.38	3.64	2.88	0.71	51.73
2008	1.07	1.34	3.50	5.23	7.09	7.38	7.15	6.37	4.36	4.01	2.27	1.61	51.37
2009	1.65	2.38	4.23	5.84	8.35	6.05	5.77	5.66	4.09	2.02	2.27	0.72	49.03
2010	0.48	0.88	3.04	5.96	6.97	7.15	6.48	6.53	4.75	5.21	2.74	1.16	51.35
2011	0.93	1.70	3.04	5.73	7.11	7.15	6.11	4.90	4.31	5.18	2.73	1.26	50.15
2012	2.53	1.73	5.57	6.49	8.78	8.73	8.96	7.54	6.38	4.52	3.03	1.55	65.81
AVERAGE	3.05	3.42	4.65	5.70	6.29	6.31	5.59	4.79	4.34	3.72	2.96	2.84	53.13

Notes:

Annual evapotranspiration for 1981 represents May-December.

Average annual evapotranspiration for station represents 1982-2012.

AWDN - Automated Weather Data Network

NM - not measured

NOP - Nebraska Ordnance Plant

Source - High Plains Regional Climate Center, Automated Weather Data Network (AWDN) Station a255369

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Table 2-13
Total Potential Evapotranspiration (inches)
MEADTURFFARM (AWDN Station a255368) August 1990 to December 2012
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1990	NM	NM	NM	NM	NM	NM	NM	1.50	1.72	2.75	6.12	7.21	19.30
1991	7.64	7.92	6.94	4.13	2.97	1.95	1.22	0.93	2.71	3.24	4.49	9.90	54.03
1992	7.64	7.64	8.03	4.92	5.53	2.82	1.56	1.26	1.54	4.31	7.59	9.48	62.32
1993	10.33	7.98	8.28	7.23	4.80	3.20	1.52	1.76	1.95	2.00	6.10	8.22	63.37
1994	1.32	1.75	5.09	7.44	7.06	6.40	6.69	5.58	5.49	3.22	2.06	0.74	52.86
1995	0.89	2.25	3.00	4.63	4.55	7.64	8.52	6.77	4.91	4.58	2.01	1.04	50.77
1996	1.24	2.71	4.15	6.65	3.47	6.69	6.15	4.52	4.32	4.79	1.20	0.85	46.73
1997	1.32	1.32	5.05	4.06	7.65	8.11	7.79	5.67	5.05	3.86	1.55	0.66	52.09
1998	0.73	1.29	1.83	5.03	6.86	7.02	6.29	5.40	5.82	2.96	1.80	1.73	46.75
1999	1.02	2.24	4.11	4.02	5.91	5.89	8.04	5.75	5.43	5.56	3.58	1.67	53.22
2000	1.94	2.62	4.21	6.36	7.89	8.29	6.15	5.73	7.15	3.76	1.46	0.93	56.47
2001	0.98	0.91	2.25	6.23	6.39	7.79	6.60	6.67	4.70	4.58	2.72	1.67	51.46
2002	2.43	2.20	3.33	6.16	7.52	9.86	8.56	6.62	5.69	2.90	2.07	1.82	59.14
2003	1.65	1.38	4.10	5.84	5.96	6.33	7.94	6.58	5.38	4.19	2.10	1.25	52.71
2004	1.29	1.52	3.77	6.42	7.11	6.18	5.45	5.77	6.48	3.53	1.61	1.63	50.76
2005	0.74	1.57	4.42	5.42	7.59	8.49	8.80	5.90	6.43	4.20	2.88	0.91	57.35
2006	2.36	2.76	3.40	6.19	8.60	9.07	8.54	5.68	4.69	3.76	2.40	1.79	59.24
2007	1.26	1.27	3.70	5.86	7.07	7.70	7.85	5.84	5.86	3.94	2.92	0.72	53.98
2008	1.04	1.30	3.47	5.18	6.95	7.20	7.11	6.55	4.44	3.92	2.13	1.58	50.86
2009	1.62	2.29	4.05	5.63	8.12	6.07	5.66	5.96	4.28	2.12	2.21	0.79	48.77
2010	0.53	0.98	3.12	6.10	7.05	7.43	6.95	7.12	5.09	5.11	2.75	1.18	53.41
2011	0.87	1.70	3.13	5.90	7.35	7.60	6.90	5.70	4.90	5.30	2.81	1.32	53.48
2012	2.59	1.84	5.91	6.84	9.30	8.67	9.36	7.91	6.70	4.31	2.98	1.57	67.98
AVERAGE	2.34	2.61	4.33	5.74	6.62	6.84	6.53	5.27	4.81	3.86	2.94	2.55	52.92

Notes:

Annual evapotranspiration for 1990 represents August-December.

Average annual evapotranspiration for station represents 1991-2012.

AWDN - Automated Weather Data Network

NM - not measured

NOP - Nebraska Ordnance Plant

Source - High Plains Regional Climate Center, Automated Weather Data Network (AWDN) Station a255368

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Table 2-14
Total Potential Evapotranspiration (inches)
MEADAGROFARM (AWDN Station a255367) January 1994 to December 2012
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1994	1.45	2.01	5.69	7.60	9.10	7.34	7.63	6.50	6.44	3.65	2.43	0.78	60.62
1995	0.94	2.48	2.95	4.24	4.43	7.43	9.33	7.43	5.03	4.75	2.03	1.02	52.06
1996	1.08	2.82	4.52	7.53	4.26	7.79	7.28	5.18	4.68	5.34	1.36	0.90	52.74
1997	1.36	1.41	5.29	4.39	8.41	8.90	7.95	5.66	5.14	4.03	1.74	0.75	55.02
1998	0.85	1.42	1.98	5.49	7.26	7.44	6.77	5.60	6.26	3.41	2.21	2.10	50.77
1999	1.33	2.69	4.80	4.69	6.43	6.21	7.74	5.65	5.57	5.88	3.74	1.55	56.26
2000	1.91	2.55	4.27	6.46	8.14	8.48	6.40	6.52	8.28	4.50	1.73	1.18	60.42
2001	1.23	1.14	2.82	6.73	7.73	8.57	7.54	7.63	5.12	4.98	3.12	1.83	58.42
2002	2.74	2.29	3.55	6.32	7.95	9.94	9.22	7.04	5.97	2.96	2.16	1.89	62.03
2003	1.74	1.41	4.28	6.12	6.29	7.00	9.08	7.39	6.02	4.87	2.28	1.33	57.79
2004	1.40	1.58	3.98	7.13	7.68	6.63	5.47	6.09	6.94	4.11	1.90	1.78	54.69
2005	0.86	1.78	4.81	6.01	8.22	8.70	9.25	6.05	6.98	4.48	3.10	0.95	61.17
2006	2.47	3.00	3.47	6.49	8.94	9.24	8.33	5.50	4.50	3.70	2.53	1.87	60.03
2007	1.26	1.28	3.80	5.84	7.24	7.99	8.05	5.60	5.74	3.93	3.07	0.71	54.49
2008	1.08	1.33	3.50	5.22	6.84	6.83	6.97	6.74	4.58	4.03	2.29	1.64	51.05
2009	1.62	2.39	4.18	5.79	8.36	6.09	5.95	5.92	4.30	2.09	2.24	0.82	49.73
2010	0.52	0.98	3.21	6.30	7.36	7.53	7.27	7.58	4.95	5.27	2.88	1.22	55.07
2011	0.96	1.76	3.33	6.18	7.58	7.69	7.07	5.74	4.96	5.52	2.95	1.37	55.11
2012	2.63	1.86	5.99	7.03	9.40	8.93	9.77	8.53	7.17	4.54	3.13	1.61	70.59
AVERAGE	1.44	1.90	4.02	6.08	7.45	7.83	7.74	6.44	5.72	4.32	2.47	1.33	56.74

Notes:

AWDN - Automated Weather Data Network

NOP - Nebraska Ordnance Plant

Source - High Plains Regional Climate Center, Automated Weather Data Network (AWDN) Station a255367

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Table 2-15
Former NOP Extraction Well Pumping Rates
2012 Groundwater Model Update
Former NOP, Mead, Nebraska
(gallons per minute)

Month	EW-01/EW-1R	EW-02	EW-03	EW-04	EW-05	EW-06	EW-07	EW-08	EW-09	EW-10	FEW-11	EW-12	EW-13	FEW-14	FEW-15	EW-16	Total
Feb-02	185	175	236	132	252	306	331	316	268	428	0	0	0	0	0	0	2,629
Feb-02	185	175	236	132	227	306	331	315	269	427	0	0	0	0	0	0	2,603
Feb-02	183	175	235	132	228	306	332	316	269	422	0	0	0	0	0	0	2,598
Feb-02	184	175	235	131	220	306	332	316	269	422	0	0	0	0	0	0	2,590
Feb-02	184	174	238	129	225	306	331	316	269	422	0	0	0	0	0	0	2,594
Feb-02	183	174	237	132	225	306	331	316	269	422	0	0	0	0	0	0	2,595
Feb-02	183	175	233	129	249	305	330	314	268	421	0	0	0	0	0	0	2,607
Mar-02	182	175	233	132	251	311	330	317	268	422	0	0	0	0	0	0	2,621
Mar-02	181	174	229	133	250	310	329	315	265	421	0	0	0	0	0	0	2,607
Mar-02	180	175	229	132	250	306	330	328	264	418	0	0	0	0	0	0	2,612
Mar-02	181	175	227	132	251	305	329	322	263	420	0	0	0	0	0	0	2,605
Apr-02	180	175	228	124	250	307	328	324	261	419	0	0	0	0	0	0	2,596
May-02	179	175	220	119	251	310	328	319	250	418	0	0	0	0	0	0	2,569
Jun-02	177	174	220	120	249	309	328	320	250	414	0	0	0	0	0	0	2,561
Jul-02	175	176	220	123	250	311	330	321	231	410	0	0	0	0	0	0	2,547
Aug-02	174	175	221	120	250	309	330	322	231	409	0	0	0	0	0	0	2,541
Nov-02	171	175	220	115	250	314	320	323	226	376	0	0	0	0	0	0	2,490
Feb-03	168	175	220	110	249	294	315	319	221	379	0	0	0	0	0	0	2,450
May-03	164	174	219	109	250	290	314	312	216	380	0	0	0	0	0	0	2,428
Aug-03	160	173	218	105	251	292	299	310	215	392	0	0	0	0	0	0	2,415
Nov-03	154	169	221	107	249	280	300	312	215	396	0	0	0	0	0	0	2,403
Mar-04	148	168	220	117	245	264	299	310	210	375	0	0	0	0	0	0	2,356
Apr-04	148	168	219	116	244	253	280	310	185	374	0	0	0	0	0	0	2,297
Aug-04	198	150	220	122	250	276	298	335	194	401	0	0	0	0	0	0	2,444
Oct-04	200	150	220	119	248	260	302	336	185	400	0	0	0	0	0	0	2,420
Jan-05	197	151	220	115	249	240	274	338	180	406	0	0	0	0	0	0	2,370
May-05	200	151	219	110	252	233	264	333	180	409	0	0	0	0	0	0	2,351
Aug-05	197	150	219	105	251	276	305	305	178	401	0	0	0	0	0	0	2,387
Oct-05	187	150	220	104	249	276	304	304	171	396	0	0	0	0	0	0	2,361
Jan-06	177	149	219	105	229	252	308	305	158	345	0	0	0	0	0	0	2,247
Feb-06	163	143	209	95	210	231	294	291	143	228	0	0	0	0	0	0	2,006
Mar-06	171	153	223	89	225	255	316	314	152	270	0	350	0	0	0	0	2,517
Apr-06	156	142	207	98	221	243	294	292	141	276	0	275	0	0	0	0	2,343
May-06	157	148	216	103	229	250	312	306	145	308	0	303	0	0	0	0	2,477
Jun-06	85	111	208	90	210	215	284	277	138	289	0	268	0	0	0	0	2,174
Jul-06	134	99	215	83	211	275	302	295	144	351	0	323	0	0	0	0	2,434
Aug-06	74	54	215	102	201	245	308	296	125	289	0	321	0	0	0	0	2,230
Sep-06	220	119	205	109	191	252	300	281	129	284	0	306	0	0	0	0	2,395
Oct-06	234	149	217	115	201	268	303	299	137	303	0	318	0	0	0	0	2,543
Nov-06	204	148	122	96	128	168	194	298	86	181	0	316	0	0	0	0	1,943
Dec-06	183	138	130	81	76	268	281	269	148	260	0	263	0	0	0	0	2,096
Jan-07	211	151	168	84	155	260	294	297	137	273	0	307	0	0	0	0	2,336
Feb-07	198	147	243	81	194	250	290	290	129	255	0	300	0	0	0	0	2,377
Mar-07	187	140	186	79	149	253	288	279	121	248	0	280	0	0	0	0	2,210
Apr-07	188	148	253	81	181	261	308	287	96	195	0	313	0	0	0	0	2,310
May-07	140	139	139	72	181	253	269	281	109	274	0	249	0	0	0	0	2,106
Jun-07	202	153	261	80	218	270	321	278	157	398	0	182	0	0	0	0	2,519
Jul-07	202	149	247	65	214	264	310	290	154	402	0	329	0	0	0	0	2,624
Aug-07	184	137	231	73	191	231	274	255	127	214	0	238	0	0	0	0	2,156
Sep-07	190	145	247	79	199	251	292	0	146	381	0	315	0	0	0	0	2,245
Oct-07	190	152	255	81	131	232	296	0	148	405	0	320	0	0	0	0	2,211
Nov-07	116	154	261	77	207	259	301	0	151	402	0	325	0	0	0	0	2,252
Dec-07	193	154	262	70	204	255	299	0	150	401	0	324	0	0	0	0	2,312
Jan-08	168	138	238	59	185	231	286	36	138	387	0	313	0	0	0	0	2,178
Feb-08	177	148	258	64	193	244	293	63	147	395	0	324	0	0	0	0	2,306
Mar-08	181	152	263	65	183	145	177	0	87	391	236	305	0	0	0	0	2,185
Apr-08	181	156	266	68	169	256	314	0	156	418	441	325	0	0	0	0	2,752
May-08	167	147	249	64	148	239	292	0	143	380	459	323	0	0	0	0	2,612
Jun-08	160	148	246	69	186	238	277	0	144	351	328	320	0	0	0	0	2,465
Jul-08	166	159	279	78	210	270	304	0	160	414	277	321	0	0	0	0	2,639
Aug-08	160	156	266	77	210	267	309	0	161	418	542	324	0	0	0	0	2,889
Sep-08	156	154	270	73	206	263	245	0	160	414	545	323	0	0	0	0	2,808
Oct-08	96	154	272	66	202	258	261	0	159	388	495	320	0	0	0	0	2,672
Nov-08	48	160	282	44	205	264	319	0	164	417	562	324	0	0	0	0	2,789
Dec-08	81	156	280	61	203	254	313	0	158	267	548	314	0	0	0	0	2,635

Table 2-15
Former NOP Extraction Well Pumping Rates
2012 Groundwater Model Update
Former NOP, Mead, Nebraska
(gallons per minute)

Month	EW-01/EW-1R	EW-02	EW-03	EW-04	EW-05	EW-06	EW-07	EW-08	EW-09	EW-10	FEW-11	EW-12	EW-13	FEW-14	FEW-15	EW-16	Total
Jan-09	185	151	279	93	200	265	322	0	166	419	542	308	0	0	0	0	2,932
Feb-09	185	85	260	86	118	245	314	0	159	442	585	313	0	0	0	0	2,794
Mar-09	169	0	201	93	0	184	231	0	112	268	467	321	0	0	0	0	2,044
Apr-09	189	0	233	92	0	212	237	0	134	304	476	307	0	0	0	0	2,183
May-09	178	0	217	93	0	203	227	0	125	305	379	301	0	0	0	0	2,028
Jun-09	186	0	276	91	0	259	298	0	165	399	480	317	0	165	0	140	2,776
Jul-09	172	0	290	88	0	65	302	0	139	406	520	212	0	184	0	94	2,470
Aug-09	168	0	274	73	0	63	216	0	137	569	441	175	0	186	0	90	2,391
Sep-09	169	0	263	77	0	74	278	0	131	203	491	196	0	176	0	88	2,145
Oct-09	177	0	275	78	0	68	293	0	142	385	530	269	0	188	0	90	2,495
Nov-09	173	0	257	81	0	70	288	0	126	386	526	321	0	188	0	90	2,505
Dec-09	147	0	263	68	0	63	254	0	122	345	426	260	0	164	0	81	2,192
Jan-10	160	0	286	76	0	76	277	0	133	377	477	273	0	179	9	88	2,411
Feb-10	155	0	294	79	0	78	287	0	135	315	533	303	0	187	0	87	2,454
Mar-10	151	0	290	77	0	62	282	0	140	0	506	320	0	185	0	84	2,098
Apr-10	148	0	299	78	0	56	288	0	144	0	523	322	0	191	110	85	2,244
May-10	143	0	302	77	0	57	292	0	147	0	533	320	0	194	329	87	2,482
Jun-10	140	0	302	76	0	48	261	0	131	0	173	306	0	195	340	92	2,066
Jul-10	131	0	297	75	0	53	294	0	140	0	347	294	0	194	345	105	2,275
Aug-10	109	0	303	76	0	53	300	0	146	0	391	277	0	204	372	105	2,335
Sep-10	138	0	294	75	0	54	292	0	144	0	285	291	0	202	246	117	2,137
Oct-10	166	0	273	71	0	59	274	0	126	0	536	237	0	205	221	111	2,279
Nov-10	121	0	177	39	0	45	292	0	146	0	547	120	0	205	495	105	2,292
Dec-10	168	0	229	78	0	50	288	0	142	0	534	255	0	171	480	90	2,485
Jan-11	162	0	293	94	0	58	287	0	141	0	534	306	0	188	489	103	2,656
Feb-11	176	0	297	95	0	58	292	0	143	0	535	323	0	192	487	101	2,699
Mar-11	176	0	299	95	0	59	292	0	144	0	489	323	0	194	496	98	2,664
Apr-11	171	0	290	93	0	55	284	0	140	0	512	310	0	189	474	95	2,613
May-11	179	0	303	98	0	57	277	0	145	0	518	315	0	195	344	96	2,526
Jun-11	141	0	293	93	0	62	270	0	135	0	432	306	0	186	304	95	2,317
Jul-11	190	0	296	97	0	61	289	0	130	0	501	306	0	190	297	99	2,454
Aug-11	214	0	297	97	0	52	172	0	84	0	245	291	0	189	319	98	2,059
Sep-11	196	0	298	93	0	50	285	0	140	0	514	279	0	192	458	97	2,601
Oct-11	196	0	297	93	0	50	288	0	140	0	543	292	0	192	497	105	2,692
Nov-11	140	0	297	88	0	50	281	0	140	0	494	120	0	191	317	101	2,219
Dec-11	199	0	290	96	0	50	286	0	135	0	540	261	0	182	493	99	2,631
Jan-12	200	0	300	89	0	50	287	0	139	0	546	313	0	183	528	99	2,734
Feb-12	97	0	290	95	0	48	279	0	135	0	515	306	0	183	487	96	2,531
Mar-12	250	0	290	93	0	48	276	0	135	0	513	319	0	184	485	96	2,688
Apr-12	198	0	289	93	0	51	280	0	133	0	518	296	0	179	466	105	2,608
May-12	196	0	292	92	0	50	280	0	130	0	522	309	0	186	476	99	2,631
Jun-12	199	0	298	94	0	51	284	0	142	0	517	316	0	188	467	98	2,653
Jul-12	199	0	298	94	0	50	284	0	129	0	N/A	307	0	190	487	93	2,130
Aug-12	197	0	295	75	0	50	282	0	134	0	312	120	0	184	483	94	2,228
Sep-12	165	0	247	77	0	41	240	0	118	0	391	175	0	156	451	82	2,143
Oct-12	194	0	299	90	0	50	281	0	144	0	508	237	0	176	447	90	2,514
Nov-12	200	0	299	76	0	49	287	0	136	0	280	210	0	180	444	100	2,259
Dec-12	185	0	260	64	0	44	264	0	137	0	455	210	0	173	415	91	2,297

Notes:
NOP - Nebraska Ordnance Plant
N/A - Not available
EW - Extraction Well
FEW - Focused Extraction Well

Values reported from 2006 -2012 are the cumulative monthly average, calculated by the total gallons pumped in a time period divided by the total number of minutes in that time period

Table 2-16
M.U.D. Platte West Well Field - Saunders County Monthly Pumping Rates (2011-2012)
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

	Monthly Pumpage (MG)																							
	2011												2012											
WELL #	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC
PW91-30	0.00	11.48	2.27	14.54	27.18	5.00	57.41	30.39	31.49	19.99	11.03	0.00	38.14	0.00	5.88	33.31	10.30	62.15	25.84	0.00	0.00	7.69	11.70	21.88
PW94-31	0.00	0.00	0.00	23.97	18.84	39.26	101.42	26.98	83.99	75.75	51.09	0.59	8.43	23.46	0.50	73.92	39.36	90.76	37.26	27.13	90.47	30.79	0.00	21.72
PW94-32	100.17	0.00	0.00	0.00	0.00	12.58	39.09	36.92	14.80	8.74	19.16	0.00	0.00	57.02	36.61	0.00	25.54	0.00	32.84	1.36	64.82	7.31	11.73	37.77
PW94-33	0.00	61.00	61.95	24.58	57.97	49.76	99.80	68.92	90.92	82.05	0.00	0.00	64.28	3.13	0.00	0.00	8.25	72.20	13.78	0.00	0.00	0.00	74.03	53.56
PW94-34	97.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	69.83	56.93	86.37	98.14	23.03	81.34	58.71	66.61	55.14	37.67	99.00
PW94-35	108.27	6.17	0.00	2.70	56.76	54.25	20.22	34.63	64.23	81.48	0.00	26.70	71.43	0.00	27.65	1.53	10.86	35.85	91.21	77.14	84.40	56.64	20.00	0.00
PW94-36	120.14	100.58	107.07	110.54	0.00	76.95	64.03	73.53	102.40	117.50	48.02	1.90	78.50	0.39	32.92	45.03	24.32	81.47	108.42	111.79	83.26	54.63	47.69	122.04
PW94-37	1.17	6.63	0.00	0.00	0.40	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	97.50	117.18	111.92	5.46	0.00	55.04	123.00	98.97	66.05	91.75	18.41
PW04-38	102.75	1.40	51.06	76.49	50.56	61.18	105.20	81.40	41.31	48.41	33.14	57.32	0.00	11.83	0.59	87.12	57.15	46.22	99.41	104.14	66.76	48.14	23.80	5.23
PW04-39	96.41	0.00	12.96	30.03	85.27	47.50	76.17	57.85	82.91	44.74	28.82	0.00	80.75	84.38	36.65	1.63	23.62	57.26	65.03	93.66	61.85	72.70	27.33	85.73
PW04-40	3.66	83.45	62.29	0.00	47.05	48.71	30.11	53.81	100.08	100.36	70.66	101.07	14.95	0.02	24.44	40.76	105.28	76.09	88.24	79.86	62.87	40.88	42.75	56.99
PW04-41	0.00	0.84	0.00	3.01	15.94	10.89	7.05	0.00	8.09	36.89	25.76	64.29	0.00	16.49	0.00	31.03	12.01	0.00	8.07	0.00	0.00	18.34	11.51	2.47
PW04-42	19.44	91.36	107.14	95.58	7.94	32.97	6.89	36.40	39.27	1.88	0.00	91.64	90.83	0.00	0.99	0.00	0.00	50.69	48.24	0.00	27.45	0.35	19.28	0.00
PW04-43	0.00	0.00	0.00	0.00	0.00	4.20	0.00	0.00	52.70	73.70	72.55	5.43	3.91	0.05	60.50	56.05	42.95	25.88	0.00	0.00	0.00	5.29	70.12	67.57
PW04-44	3.31	10.40	0.00	6.74	74.42	52.44	56.54	74.87	48.76	57.34	34.87	0.01	0.00	25.23	0.00	0.31	63.64	17.50	32.66	0.00	0.00	43.23	36.19	38.91
PW04-45	0.00	0.00	0.00	15.57	56.60	81.36	88.23	91.25	60.36	15.51	39.06	34.66	83.95	11.63	0.00	1.20	94.90	76.91	100.31	97.25	58.83	39.36	63.91	72.64
PW04-46	10.53	68.08	69.18	36.43	22.85	61.78	70.07	69.28	81.15	46.73	7.00	8.36	21.61	20.89	0.00	17.19	68.25	74.74	63.83	30.30	53.21	51.30	34.40	2.25
PW04-47	0.00	9.62	0.00	1.11	1.96	1.40	24.16	30.39	45.86	4.38	0.00	11.37	0.00	0.00	0.00	24.88	27.88	39.98	12.43	0.00	0.00	3.46	0.47	2.26
PW04-48	66.62	0.74	0.00	0.00	0.00	48.87	36.04	9.28	18.36	10.89	7.16	1.19	41.95	0.00	4.83	4.82	39.12	15.21	31.03	0.00	0.00	0.00	19.53	28.92
PW04-49	0.00	0.01	58.15	98.23	64.99	79.43	99.82	88.04	83.99	34.03	99.15	102.66	23.38	27.05	59.22	93.94	61.46	62.16	81.86	37.08	51.18	59.99	24.23	62.42
PW04-50	0.00	0.00	0.01	0.00	18.13	22.66	3.67	44.56	1.26	28.60	0.00	6.49	0.00	4.19	4.75	5.23	0.00	39.52	14.24	0.00	0.00	0.76	0.41	4.75
PW04-51	0.00	22.44	2.19	0.00	20.03	13.03	13.90	8.40	59.19	74.84	65.79	8.99	0.00	0.00	0.13	0.00	60.08	28.29	12.71	0.00	0.00	0.59	9.08	28.10
PW04-52	92.68	14.07	0.00	26.62	9.73	36.95	40.78	78.65	55.31	40.23	0.00	0.00	0.00	7.52	53.54	33.91	19.91	55.91	37.37	0.00	0.00	0.00	40.71	25.80
PW04-53	0.00	9.40	0.00	0.00	3.50	24.87	25.29	26.81	24.68	22.91	0.43	76.43	43.31	19.63	0.31	0.00	10.60	0.00	4.68	5.71	29.93	0.00	0.05	5.38
PW04-54	0.00	9.37	0.00	0.73	0.00	0.00	22.37	0.00	40.65	16.54	13.19	31.45	0.00	0.00	0.35	14.62	1.26	4.81	0.00	0.00	0.00	0.41	17.23	0.00
PW04-55	17.61	1.30	0.00	0.00	0.00	4.06	14.56	11.13	36.29	32.98	0.00	31.39	16.31	0.00	0.27	0.00	7.43	0.00	17.94	0.00	0.00	0.11	3.92	24.19
Monthly Totals, MG =	840.62	508.34	534.27	566.87	640.12	870.10	1102.82	1033.71	1268.05	1076.47	626.88	661.94	681.73	480.24	524.24	764.77	917.77	1036.63	1163.78	847.13	900.61	663.16	739.49	887.99
Daily Average, MGD =	27.12	18.16	17.23	18.90	20.65	29.00	35.57	33.35	42.27	34.72	20.90	21.35	21.99	16.56	16.91	25.49	29.61	34.55	37.54	27.33	30.02	21.39	24.65	28.64

Notes:
MG = Million Gallons
MGD = Million Gallons per Day
NOP = Nebraska Ordnance Plant
M.U.D. = Metropolitan Utilities District

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Table 2-17
Lincoln Water System Well Field Monthly Pumping Rates (2011-2012)
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

	Group A-10367 2011 Flow (MG)											
DNR#	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
A-010367Q(1R)	25.50559933	7.991224067	8.622770733	17.2238804	7.44	19.195	15.579	0.885	15.789	9.057	14.348	0
A-010367L	0	0	0.141984977	8.997630954	0.197	7.632	25.504	14.629	20.37	4.106	0	0
A-010367K	0	0	0.071611213	6.045379886	0.001	14.414	5.223	5.031	3.597	4.386	0	0
A-010367H	0	0.0046264	0.164864933	6.874669644	3.78	4.367	0.333	0.079	0.021	0	0	0
A-010367E(1R)	0	0	0.673786063	21.08965833	15.379	44.996	17.692	4.503	19.307	10.436	0	0
A-010367P	0	0	0.65586497	42.83611133	46.20576062	28.81549202	28.02490401	22.324656	6.252427553	44.62937967	3.480875667	0
A-010367N	0	0	0.349640187	34.75924347	29.281	19.879	14.499	9.167	15.3	27.018	0	0
A-010367J	17.76919437	17.7742324	10.79200094	7.266320033	3.896	13.011	2.16	12.462	6.79	5.804	10.971	0.433
A-010367I	0	0	0.171644353	11.39090164	3.5	2.883	3.292	5.793	5.022	3.609	0	0
A-010367T	32.84032667	27.07022667	20.799163	30.96827167	10.123	53.642	35.235	14.175	42.423	10.983	27.488	0
A-010367R	28.5016302	18.66911107	10.2317796	19.785944	2.471	28.855	19.538	27.684	28.229	25.259	22.337	0
A-010367S(1R)	0	0	0.559884333	7.352906	25.736	72.873	44.215	41.068	55.113	31.768	11.061	0
A-010367X(1R)	0	0	0.941536533	30.22762559	18.297	32.96	30.243	21.918	62.88	33.847	0	0
A-010367Y	13.15212457	13.89165687	17.67470723	17.69986837	18.37	23.285	47.972	1.494	0	0	0.218	0
A-010367CC	0	0	0	0	0	0	0	0	0	0	0	0
G-070412	20.52075057	21.09394422	26.14830833	26.75534264	38.299	36.799	37.24	15.172	34.174	28.979	29.678	0
A-010367DD	27.46078313	23.54428333	15.83270227	14.78890891	18.961	9.982	38.951	7.524	19.997	19.897	5.43	0
A-010367JJ	8.084874933	19.37445167	11.751939	5.701134	12.678	11.413	24.632	14.52	14.966	12.143	3.52	0.198
A-010367EE	17.67653446	15.78468244	9.967934633	7.758169667	31.434	20.422	21.98	20.442	19.278	11.347	6.196	0
A-010367KK	0.022863023	32.39780313	12.59078167	13.48223185	9.189	18.83	35.584	11.949	41.976	12.223	23.535	0.219
A-010367HH	15.5428879	14.212045	12.89243112	14.35295525	11.168	29.95	25.849	19.455	29.817	8.433	16.056	0.187
A-010367MM	19.62043633	55.10046413	40.87201833	20.762101	14.994	32.413	30.776	35.514	60.544	28.153	48.694	0.53
A-010367QQ	14.78344249	17.23052373	9.224418333	7.55913138	5.201	0.846	2.612	10.264	23.889	10.618	19.424	0
A-010367C	19.932484	13.56000369	13.76148773	23.33735333	22.112	33.632	45.804	19.032	47.04	25.137	0	0
A-010367D	16.92944907	11.98889068	11.7455296	15.46262267	4.719	27.117	24.399	25.84	33.277	11.977	23.124	0
A-010367A	0.627011707	3.177782687	0.108139667	4.608813333	0	4.372	0	0	0.168	0	0	0
A-010367B	39.09515333	15.59513625	19.71986729	21.191	14.688	27.838	32.43	34.387	0	0	0.037	0
Monthly Total =	**318.0655461**	**328.4610884**	**256.466797**	**438.2780609**	**368.1197606**	**620.421492**	**609.766904**	**395.311656**	**606.2194276**	**379.8093797**	**265.5978757**	**1.567**
Group A-10367 Total (MG) =	**4588.084988**											

	Group A-10367 2012 Flow (MG)											
DNR#	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12
A-010367Q(1R)	19.305	0.587	0.000	2.684	11.349	14.788	21.493	82.809	77.377	36.595	12.703	9.291
A-010367L	0.000	0.000	0.003	0.177	2.931	35.756	60.438	54.885	15.112	13.135	0.000	0.000
A-010367K	0.000	0.000	0.016	0.152	0.422	14.052	15.258	27.358	8.396	6.214	0.000	0.000
A-010367H	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
A-010367E(1R)	0.000	0.000	0.023	32.912	21.565	45.733	70.020	58.424	51.861	21.105	3.351	0.000
A-010367P	0.000	0.000	0.000	0.000	17.815	24.475	16.510	14.757	15.829	19.568	0.000	0.000
A-010367N	0.000	0.000	0.024	0.782	63.179	39.493	50.758	39.372	53.852	4.570	0.000	0.000
A-010367J	0.377	4.812	0.762	14.004	17.308	19.849	28.571	32.708	28.683	35.073	21.611	1.555
A-010367I	0.000	0.000	0.008	0.338	2.185	1.372	8.945	2.976	5.161	0.009	0.475	0.000
A-010367T	8.261	2.594	4.631	8.934	29.746	24.141	23.488	30.378	28.416	10.055	2.753	31.915
A-010367R	42.053	0.322	0.005	18.668	35.019	12.398	27.326	39.743	23.635	20.485	0.614	29.630
A-010367S(1R)	0.000	0.000	0.010	24.895	20.885	30.034	25.316	5.076	5.032	0.013	0.000	0.000
A-010367X(1R)	0.000	0.000	0.008	0.000	77.691	25.212	47.000	76.022	15.842	37.962	0.000	0.000
A-010367Y	31.029	17.174	0.273	13.670	22.943	14.639	35.468	41.116	19.431	33.142	0.517	3.994
A-010367CC	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
G-070412	34.476	19.506	4.875	22.264	42.200	20.033	56.418	49.360	3.995	0.022	0.782	18.488
A-010367DD	2.155	13.876	0.004	10.779	7.640	19.120	21.184	23.333	5.105	19.357	0.000	4.224
A-010367JJ	30.865	9.713	3.918	15.000	0.896	29.726	44.207	42.044	32.148	37.221	0.499	24.197
A-010367EE	18.943	8.523	0.003	9.611	0.950	18.749	26.988	19.947	7.696	25.964	0.546	25.598
A-010367KK	41.510	17.762	4.379	11.602	23.824	22.598	51.092	40.942	37.746	43.517	0.536	0.000
A-010367HH	44.958	11.887	0.001	12.367	0.797	24.416	36.228	33.122	12.814	0.588	0.528	0.000
A-010367MM	36.908	0.481	0.032	39.322	29.551	67.293	67.174	48.008	74.500	26.076	1.047	14.233
A-010367QQ	35.074	12.236	4.372	0.490	0.006	37.028	46.083	46.244	33.282	1.560	0.480	7.972
A-010367C	54.176	8.377	3.598	2.648	35.666	39.025	52.165	55.890	46.702	62.178	38.354	5.390
A-010367D	19.509	10.765	0.001	12.716	25.155	30.731	36.536	28.196	13.238	9.862	15.631	4.286
A-010367A	0.000	0.000	0.000	0.336	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
A-010367B	0.000	0.000	0.000	0.168	14.701	47.623	47.603	48.775	22.579	1.102	29.707	9.081
Monthly Total =	**419.599**	**138.615**	**26.946**	**254.519**	**504.424**	**658.284**	**916.269**	**941.485**	**638.432**	**465.373**	**130.134**	**189.854**
Group A-10367 Total (MG) =	**5283.934**											

	Group A-16917 2011 Flow (MG)											
DNR#	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
G-070300	0	0	0.066634967	3.100708413	3.002	0	0	0	21.72	1.293	0	0
G-070304	0	0.195633667	0.2788962	5.262056997	6.424	12.576	0	21.015	30.76	25.075	0	0
G-070306	0	0.076718667	0.517418143	14.01703747	5.566	22.975	11.719	26.146	37.079	23.79	0	0
G-070307	0	0	0.036955187	3.18895861	3.478	0	19.554	1.801	26.571	18.92	0	0
G-070310(1R)	0	0	0.861585033	4.080792293	0	28.03	62.641	19.141	60.943	25.848	0	0
G-070303	115.8352977	137.3834833	164.0373667	57.122191	0	5.287	56.52	41.779	89.538	84.773	63.872	0
G-070305	0	0	0	0	0	0	0	0	0	0	0	0
G-070308	0.150442	62.919438	56.73678577	31.83600433	20.43107098	18.15999736	30.92990297	23.78992033	25.36784233	15.22361403	30.72749433	0.002
G-070309	49.96220033	79.32749333	92.31646667	32.77609761	26.62337057	22.84963333	9.244877	23.34902798	26.57346601	59.71146703	34.65365023	0
G-070311	74.4025276	91.871671	106.0463441	18.74894942	24.20363933	16.88662773	14.71888589	20.38173137	28.98671802	44.828227	45.91546567	0
G-070312	0.679583093	24.78136367	35.33557	0.068432333	0.003	9.953	5.239	6.261	16.54	15.442	0	0
G-072911	97.9481	219.7830073	228.5228493	76.02540726	90.657	74.171	60.027	31.644	74.044	44.591	24.704	0
G-072912	9.287404	70.781296	96.69473333	30.24927061	37.80906537	33.05885542	37.302031	30.35934464	33.194157	62.2973149	46.7272	0
G-076884	138.37082	26.94602607	75.64784833	146.1978193	287.316	107.216	305.147	404.122	62.279	256.841	185.386	367.938
G-077983	147.2351033	20.46907647	69.30585533	82.38692111	267.835	324.633	397.656	489.962	60.8	315.055	177.147	506.235
Monthly Total =	**633.871478**	**734.5352075**	**926.4053091**	**505.0606468**	**773.3481463**	**675.7961139**	**1010.698697**	**1139.751024**	**594.3961834**	**993.688623**	**609.1328102**	**874.175**
Group A-16917 Total (MG) =	**9470.859239**											

	Group A-16917 2012 Flow (MG)											
DNR#	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12
G-070300	0.000	0.000	0.027	0.745	0.000	10.048	16.632	8.830	0.000	0.011	6.707	0.000
G-070304	0.000	0.000	0.020	10.983	0.003	2.560	31.208	36.594	0.947	4.734	0.000	0.000
G-070306	0.000	0.000	0.012	8.378	33.194	6.675	23.175	6.651	0.186	0.008	0.000	0.000
G-070307	0.000	0.000	0.010	18.433	6.564	0.775	12.193	12.056	0.188	0.010	0.000	0.000
G-070310(1R)	0.000	0.000	0.017	37.900	26.800	43.251	43.797	50.083	57.833	8.631	0.000	0.000
G-070303	18.870	0.000	0.000	0.000	0.000	0.000	0.000	35.506	15.160	25.253	0.000	0.000
G-070305	3.894	0.000	0.000	0.009	69.281	19.860	14.688	16.743	0.408	0.041	0.000	0.000
G-070308	0.000	18.182	11.869	9.516	0.007	45.317	51.175	0.000	8.088	41.418	1.466	40.235
G-070309	0.000	0.000	0.000	39.817	68.870	52.864	84.541	32.398	56.200	0.485	0.000	0.000
G-070311	0.000	0.000	0.000	0.000	1.389	11.378	29.338	9.647	23.901	1.023	0.000	0.000
G-070312	0.295	0.050	0.000	19.853	66.651	10.851	20.545	13.441	24.848	21.904	0.000	0.000
G-072911	53.043	22.642	4.603	37.348	41.869	14.911	31.741	18.560	8.709	28.126	0.596	13.276
G-072912	0.000	0.000	0.000	54.745	33.362	71.585	64.691	47.711	80.218	0.444	0.000	0.000
G-076884	34.938	262.897	422.922	259.077	276.557	364.607	441.498	335.808	335.405	310.895	390.533	242.589
G-077983	65.088	281.544	457.992	239.898	142.047	355.167	426.858	320.893	331.253	285.404	345.183	234.461
Monthly Total =	**176.128**	**585.315**	**897.472**	**736.702**	**766.594**	**1009.849**	**1292.08**	**944.921**	**943.344**	**728.387**	**744.485**	**530.561**
Group A-16917 Total (MG) =	**9355.838**											

Note:
MG = Million Gallons
NOP = Nebraska Ordnance Plant

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Table 2-18
Mead and Ashland Total Municipal Pumping Rates
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Village of Mead	Total Gallons								gpm							
	2005	2006	2007	2008	2009	2010	2011	2012	2005	2006	2007	2008	2009	2010	2011	2012
January	1,787,000	1,555,000	1,646,000	1,851,000	1,725,000	2,095,000	1,766,610	2,437,000	40	35	37	41	39	47	40	55
February	1,478,000	1,404,000	1,539,000	1,630,000	1,423,000	1,563,000	1,479,870	1,689,000	37	35	38	39	35	39	37	38
March	1,712,000	1,520,000	1,659,000	1,682,000	1,567,000	1,668,000	1,375,380	1,880,000	38	34	37	38	35	37	31	42
April	1,832,000	1,614,000	1,696,000	1,628,000	1,621,000	1,950,000	1,481,490	1,878,000	42	37	39	38	38	45	34	42
May	2,142,000	2,340,000	1,804,000	1,888,000	2,167,000	1,768,000	1,782,080	2,170,000	48	52	40	42	49	40	40	49
June	2,736,000	4,423,000	3,587,000	1,806,000	2,124,000	2,124,000	1,690,470	2,641,000	63	102	83	42	49	49	39	59
July	4,043,000	3,556,000	3,757,000	2,192,000	2,586,000	2,050,000	1,899,450	4,306,000	91	80	84	49	58	46	43	96
August	2,424,000	2,104,000	2,166,000	2,675,000	2,234,000	3,074,000	1,666,980	2,995,000	54	47	49	60	50	69	37	67
September	2,413,000	1,752,000	1,986,000	1,803,000	2,126,000	2,517,000	1,752,840	2,676,000	56	41	46	42	49	58	41	60
October	2,036,000	1,915,000	1,772,000	1,661,000	1,990,000	2,350,000	1,675,890	1,877,000	46	43	40	37	45	53	38	42
November	1,679,000	1,593,000	1,740,000	1,594,000	2,189,000	1,995,000	1,800,050	1,754,000	39	37	40	37	51	46	42	39
December	1,569,000	1,563,000	1,744,000	1,767,000	2,234,000	2,033,600	1,829,790	1,531,000	35	35	39	40	50	46	41	34
June-August Average	3,068,000	3,361,000	3,170,000	2,224,000	2,315,000	2,416,000	1,752,000	3,314,000	69	76	72	50	52	55	40	74
September-May Average	1,850,000	1,695,000	1,732,000	1,723,000	1,894,000	1,993,000	1,660,000	1,988,000	42	39	40	39	43	46	38	45
Annual Average	2,154,000	2,112,000	2,091,000	1,848,000	1,999,000	2,099,000	1,683,000	2,320,000	49	48	48	42	46	48	38	52

City of Ashland	Total Gallons								gpm							
	2005	2006	2007	2008	2009	2010	2011	2012	2005	2006	2007	2008	2009	2010	2011	2012
January	7,130,000	7,601,000	7,920,000	7,224,000	7,788,000	9,733,000	8,034,000	7,499,000	160	170	177	162	174	218	180	168
February	6,425,000	7,066,000	7,386,000	6,878,000	6,705,000	7,594,000	7,356,000	7,365,000	159	175	183	165	166	188	182	165
March	6,965,000	8,608,000	7,899,000	8,515,000	7,599,000	7,523,000	8,788,000	8,168,000	156	193	177	191	170	169	197	183
April	8,346,000	9,632,000	8,577,000	7,482,000	8,243,000	8,795,000	9,104,000	9,849,000	193	223	199	173	191	204	211	221
May	11,938,000	14,620,000	11,308,000	9,476,000	11,144,000	10,459,000	9,967,000	13,652,000	267	328	253	212	250	234	223	306
June	14,281,000	22,389,000	15,706,000	9,431,000	11,457,000	10,105,000	12,015,000	17,501,000	331	518	364	218	265	234	278	392
July	20,439,000	24,513,000	20,316,000	13,785,000	14,469,000	12,847,000	14,908,000	28,060,000	458	549	455	309	324	288	334	629
August	16,994,000	14,704,000	14,695,000	17,208,000	12,728,000	18,211,000	12,658,000	21,464,000	381	329	329	385	285	408	284	481
September	19,414,000	10,341,000	14,325,000	10,137,000	10,783,000	12,453,000	11,693,000	15,343,000	449	239	332	235	250	288	271	344
October	13,685,000	9,523,000	11,040,000	8,977,000	8,436,000	9,699,000	11,770,000	11,188,000	307	213	247	201	189	217	264	251
November	8,399,000	7,593,000	7,259,000	7,401,000	7,543,000	7,830,000	7,697,000	8,022,000	194	176	168	171	175	181	178	180
December	7,773,000	8,079,000	6,963,000	8,276,000	7,628,000	7,570,000	7,541,000	8,514,000	174	181	156	185	171	170	169	191
June-August Average	17,238,000	20,535,000	16,906,000	13,475,000	12,885,000	13,721,000	13,194,000	22,342,000	390	466	383	304	291	310	299	500
September-May Average	10,008,000	9,229,000	9,186,000	8,263,000	8,430,000	9,073,000	9,106,000	9,956,000	229	211	210	188	193	208	208	223
Annual Average	11,816,000	12,056,000	11,116,000	9,566,000	9,544,000	10,235,000	10,128,000	13,052,000	269	275	253	217	217	233	231	292

Notes:
gpm - gallons per minute
NOP - Nebraska Ordnance Plant

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Table 2-19
Irrigation Wells and Estimated Pumping Rates (2010-2012)
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Easting (ft NAD 83)	Northing (ft NAD 83)	NDNR Well ID	NDNR Registration Code	Use ID	Acres on Registration	ARDC ID (5)	Registration Pumping Rate (gpm)	Peak Irrigation Rate (gpm) (2)	Avg. Pumping Rate Over Irrigation Season Based on 3/8 of Peak Irrigation Rate (gpm)	Pumping Rate Based on Average Net Irrig. Req. Over Irrigation Season (gpm) (3)	2010 Irrigation Season Avg. Pumping Rate (gpm)	Non-Irrigation Season Avg. Pumping Rate (gpm)	2011 Irrigation Season Avg. Pumping Rate (gpm)	2012 Non-Irrigation Season Avg. Pumping Rate (gpm)	2012 Irrigation Season Avg. Pumping Rate (gpm)	Notes:
2,599,734	502,608	3620	G-000350	I	160	NA	850	848	318	219	102	0	84	0	231	
2,661,697	501,034	3650	G-000377	I	186	NA	1000	986	370	255	118	0	97	0	269	
2,662,132	491,793	4083	G-000744	I	160	NA	NA	848	318	219	0	0	0	0	0	Possibly redundant
2,662,357	486,519	4084	G-000745	I	80	NA	NA	424	159	110	51	0	42	0	116	
2,659,212	498,273	4331	G-000961	I	154	NA	NA	816	306	211	98	0	81	0	223	
2,641,811	490,245	5723	G-002172	I	160	NA	NA	848	318	219	102	0	84	0	231	
2,631,364	503,696	5922	G-002341	I	85	NA	940	451	169	116	0	0	0	0	0	Possibly redundant
2,642,547	488,271	7643	G-003848	I	80	NA	1000	424	159	110	51	0	42	0	116	
2,637,438	484,094	7820	G-004004	I	50	NA	1000	265	99	68	32	0	26	0	72	
2,644,277	479,087	8001	G-004168	I	35	NA	700	186	70	48	22	0	18	0	51	
2,644,379	476,422	8002	G-004169	I	35	NA	700	186	70	48	22	0	18	0	51	
2,657,610	504,779	8018	G-004183	I	240	NA	1500	1272	477	329	0	0	0	0	0	Possibly redundant
2,597,949	520,804	13478	G-008876	I	120	NA	500	500	188	164	0	0	0	0	0	Possibly redundant
2,661,046	500,312	13661	G-009033	I	160	NA	1500	848	318	219	102	0	84	0	231	
2,631,136	497,962	13866	G-009205	I	80	NA	900	424	159	110	51	0	42	0	116	
2,659,538	513,493	16269	G-011280	I	70	NA	1000	371	139	96	45	0	37	0	102	
2,592,859	515,723	18508	G-013220	I	160	NA	1000	848	318	219	102	0	84	0	231	
2,659,433	507,749	19586	G-014161	I	225	NA	1000	1000	375	308	0	0	0	0	0	Possibly redundant
2,635,341	503,188	20347	G-014821	I	280	NA	1000	1000	375	383	0	0	0	0	0	Possibly redundant
2,636,659	503,244	20348	G-014822	I	280	NA	1000	1000	375	383	0	0	0	0	0	Possibly redundant
2,654,509	514,556	20395	G-014865	I	126	NA	1000	668	250	173	80	0	66	0	182	
2,654,612	511,906	20396	G-014866	I	105	NA	1000	557	209	144	67	0	55	0	152	
2,654,849	519,217	20787	G-015211	I	320	NA	1200	848	318	219	102	0	84	0	231	
2,643,489	470,451	21909	G-016190	I	200	NA	700	700	263	274	127	0	105	0	289	
2,650,680	527,623	23048	G-017199	I	160	NA	1100	848	318	219	102	0	84	0	231	
2,661,214	526,813	23050	G-017201	I	220	NA	1100	848	318	219	102	0	84	0	231	
2,628,140	485,091	24278	G-018285	I	100	NA	700	530	199	137	64	0	53	0	145	
2,608,603	531,249	26529	G-020313	I	200	NA	1200	1060	398	274	127	0	105	0	289	
2,655,955	511,295	26786	G-020550	I	NA	NA	800	689	258	178	83	0	68	0	189	
2,648,203	495,779	27484	G-021194	I	160	NA	800	800	300	219	102	0	84	0	231	
2,661,154	528,096	27800	G-021492	I	134	NA	650	650	244	183	86	0	70	0	195	
2,600,716	524,444	29812	G-023385	I	80	NA	600	424	159	110	51	0	42	0	116	
2,644,712	483,745	37552	G-030654	I	220	NA	1200	1166	437	301	140	0	115	0	319	
2,617,221	478,589	37578	G-030678	I	180	NA	750	750	281	246	115	0	94	0	261	
2,662,677	489,787	38884	G-031913	I	160	NA	1100	848	318	219	102	0	84	0	231	
2,629,665	478,469	40499	G-033472	I	120	NA	500	500	188	164	76	0	63	0	173	
2,590,137	524,024	40531	G-033505	I	170	NA	1000	901	338	233	109	0	89	0	247	
2,613,776	499,678	40778	G-033747	I	500	NA	1200	339	127	88	0	0	0	0	0	
2,609,163	510,257	132307	G-033749	I	90	3R	430	430	161	122	53	0	50(7)	0	87(7)	ARDC well with 2006-2012 data
2,619,957	506,332	40781	G-033750	I	500	IR 4	1100	530	199	137	81	0	94(7)	0	201(7)	ARDC well with 2006-2012 data
2,605,997	500,166	40782	G-033751	I	80	NA	450	424	159	110	0	0	0	0	0	
2,625,321	506,092	40783	G-033752	I	400	6	750	514	193	133	62	0	0	0	11(7)	ARDC well with 2012 Data
2,612,200	504,918	116317	G-033753	I	130	25	725	689	258	178	146	0	137(7)	0	299(7)	ARDC well with 2006-2012 data
2,626,694	506,075	40785	G-033754	I	200	7	400	0	0	0	0	0	0	0	0(7)	ARDC well with 2012 Data
2,624,963	505,301	40786	G-033755	I	300	IR9	400	400	150	136	12	0	0	0	13(7)	ARDC well with 2012 Data
2,622,683	483,848	42290	G-035213	I	173	NA	800	800	300	237	110	0	91	0	251	Updated acres irrigated per 1/3/2011
2,603,499	518,055	42314	G-035237	I	160	NA	650	650	244	219	102	0	84	0	231	
2,595,861	509,940	42355	G-035273	I	140	NA	1000	742	278	192	89	0	73	0	203	
2,611,836	528,695	42382	G-035300	I	68	NA	700	360	135	93	43	0	36	0	99	Replaced well 2008
2,663,380	494,452	42554	G-035461	I	85	NA	1000	451	169	116	54	0	44	0	123	

Table 2-19
Irrigation Wells and Estimated Pumping Rates (2010-2012)
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Easting (ft NAD 83)	Northing (ft NAD 83)	NDNR Well ID	NDNR Registration Code	Use ID	Acres on Registration	ARDC ID (5)	Registration Pumping Rate (gpm)	Peak Irrigation Rate (gpm) (2)	Avg. Pumping Rate Over Irrigation Season Based on 3/8 of Peak Irrigation Rate (gpm)	Pumping Rate Based on Average Net Irrig. Req. Over Irrigation Season (gpm) (3)	2010 Irrigation Season Avg. Pumping Rate (gpm)	Non-Irrigation Season Avg. Pumping Rate (gpm)	2011 Irrigation Season Avg. Pumping Rate (gpm)	2012 Non-Irrigation Season Avg. Pumping Rate (gpm)	2012 Irrigation Season Avg. Pumping Rate (gpm)	Notes:
2,652,217	527,684	42969	G-035862	I	130	NA	1250	689	258	178	83	0	68	0	189	
2,608,883	523,412	43086	G-035976	I	204	NA	1200	1081	405	279	130	0	107	0	295	
2,629,416	502,905	43211	G-036098	I	80	NA	1000	424	159	110	51	0	42	0	116	
2,603,182	506,566	43335	G-036212	I	100	12	1000	530	199	137	0(7)	0(7)	0(7)	0	0	ARDC "Municipal" Well
2,627,623	503,066	43336	G-036213	I	75	13	800	583	219	151	70	0	4(7)	0	14(7)	ARDC well with 2011-2012 Data
2,618,137	499,804	43337	G-036214	I	200	14	400	400	150	274	0	0	14(7)	0	38(7)	ARDC well with 2011-2012 Data
2,598,547	509,987	44795	G-037637	I	140	NA	1000	742	278	192	89	0	73	0	203	
2,600,801	515,355	44866	G-037707	I	160	NA	650	650	244	219	102	0	84	0	231	
2,600,719	516,647	44868	G-037709	I	120	NA	700	636	239	164	76	0	63	0	173	
2,596,927	504,903	45147	G-037984	I	145	NA	900	769	288	199	92	0	76	0	210	
2,590,041	517,726	47566	G-040328	I	240	NA	700	700	263	329	153	0	125	0	347	
2,608,787	518,096	47589	G-040351	I	240	NA	900	900	338	329	153	0	125	0	347	
2,660,659	480,472	48849	G-041584	I	154	NA	1000	816	306	211	98	0	81	0	223	
2,658,404	501,520	49065	G-041786	I	140	NA	1250	742	278	192	89	0	73	0	203	
2,613,567	517,458	49612	G-042325	I	160	NA	900	848	318	219	102	0	84	0	231	
2,590,307	520,329	51519	G-044173	I	151	NA	900	800	300	207	96	0	79	0	219	
2,628,012	504,591	51659	G-044312	I	75	16	1000	307	115	79	63	0	21(7)	0	78(7)	ARDC well with 2011-2012 Data
2,629,999	504,936	53886	G-046472	I	80	NA	800	424	159	110	51	0	42	0	116	
2,603,347	531,039	53968	G-046552	I	115	NA	700	610	229	157	73	0	60	0	166	
2,603,776	520,760	54074	G-046657	I	135	NA	750	716	268	185	86	0	71	0	196	Well replaced in 2011 with lower pumping rate and fewer irrigated acres
2,639,785	523,856	54445	G-047016	I	40	NA	500	212	80	55	25	0	21	0	58	
2,596,053	524,935	54518	G-047089	I	153	NA	900	811	304	209	97	0	80	0	221	
2,642,895	480,344	54796	G-047357	I	137	NA	1000	726	272	188	87	0	72	0	199	
2,639,386	484,836	55242	G-047789	I	80	NA	800	424	159	110	51	0	42	0	116	
2,641,391	515,996	55286	G-047830	I	120	NA	900	636	239	164	76	0	63	0	173	
2,605,586	516,108	55772	G-048312	I	220	NA	1100	1100	413	301	140	0	115	0	319	
2,614,022	523,423	158572	G-048425B	I	160	NA	1000	848	318	219	102	0	84	0	231	
2,601,807	510,732	56737	G-049256	I	160	NA	900	848	318	219	102	0	84	0	231	
2,663,535	475,318	56836	G-049353	I	137	NA	650	650	244	188	87	0	72	0	199	
2,632,495	509,007	56923	G-049439	I	240	NA	950	950	356	329	153	0	125	0	347	
2,645,404	483,101	57677	G-050176	I	160	NA	900	848	318	219	102	0	84	0	231	
2,641,514	481,602	57678	G-050177	I	160	NA	1000	848	318	219	102	0	84	0	231	
2,660,932	530,075	58400	G-050878	I	20	NA	900	106	40	27	13	0	11	0	30	
2,646,782	510,920	58520	G-050995	I	150	NA	800	795	298	205	95	0	79	0	217	
2,623,868	492,824	59223	G-051685	I	80	NA	800	424	159	110	51	0	42	0	116	
2,604,941	531,839	59224	G-051686	I	40	NA	800	212	80	55	25	0	21	0	58	
2,625,896	492,252	59327	G-051786	I	160	NA	850	848	318	219	102	0	84	0	231	
2,624,230	482,238	59328	G-051787	I	160	NA	650	650	244	219	102	0	84	0	231	
2,631,579	481,917	59402	G-051860	I	160	NA	850	848	318	219	102	0	84	0	231	
2,647,399	467,328	59421	G-051879	I	160	NA	950	848	318	219	102	0	84	0	231	
2,611,950	526,043	59472	G-051927	I	151	NA	850	800	300	207	96	0	79	0	219	
2,630,238	498,344	59723	G-052170	I	60	NA	500	318	119	82	38	0	32	0	87	
2,633,146	493,215	59908	G-052354	I	160	NA	900	848	318	219	102	0	84	0	231	
2,660,606	497,022	59969	G-052414	I	160	NA	850	848	318	219	102	0	84	0	231	
2,661,760	470,642	59970	G-052415	I	110	NA	600	583	219	151	70	0	58	0	159	
2,658,142	477,739	60120	G-052563	I	160	NA	800	800	300	219	102	0	84	0	231	
2,655,259	482,919	60342	G-052785	I	160	NA	800	800	300	219	102	0	84	0	231	
2,629,634	481,169	60636	G-053077	I	160	NA	850	848	318	219	102	0	84	0	231	
2,642,763	514,727	60991	G-053428	I	160	NA	600	600	225	219	102	0	84	0	231	
2,590,009	507,833	61033	G-053470	I	180	NA	650	650	244	246	115	0	94	0	261	

Table 2-19
Irrigation Wells and Estimated Pumping Rates (2010-2012)
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Easting (ft NAD 83)	Northing (ft NAD 83)	NDNR Well ID	NDNR Registration Code	Use ID	Acres on Registration	ARDC ID (5)	Registration Pumping Rate (gpm)	Peak Irrigation Rate (gpm) (2)	Avg. Pumping Rate Over Irrigation Season Based on 3/8 of Peak Irrigation Rate (gpm)	Pumping Rate Based on Average Net Irrig. Req. Over Irrigation Season (gpm) (3)	2010 Irrigation Season Avg. Pumping Rate (gpm)	Non-Irrigation Season Avg. Pumping Rate (gpm)	2011 Irrigation Season Avg. Pumping Rate (gpm)	2012 Non-Irrigation Season Avg. Pumping Rate (gpm)	2012 Irrigation Season Avg. Pumping Rate (gpm)	Notes:
2,638,290	462,981	61192	G-053629	I	80	NA	700	424	159	110	51	0	42	0	116	
2,635,395	501,244	61193	G-053630	I	76	NA	600	403	151	104	48	0	40	0	110	
2,657,971	496,890	61220	G-053656	I	160	NA	900	848	318	219	102	0	84	0	231	
2,633,231	490,577	61222	G-053658	I	100	NA	900	530	199	137	64	0	53	0	145	
2,592,944	505,359	61336	G-053764	I	100	NA	400	400	150	137	64	0	53	0	145	
2,633,419	485,276	61375	G-053801	I	160	NA	600	600	225	219	102	0	84	0	231	
2,633,077	519,051	61539	G-053963	I	70	NA	900	371	139	96	45	0	37	0	102	
2,611,474	495,720	62244	G-054654	I	200	IR19	800	800	300	216	78	0	95(7)	0	398(7)	ARDC well with 2006-2012 data
2,620,043	507,869	132304	G-054655	I	130	17R	787	641	240	166	108	0	60(7)	0	172(7)	ARDC well with 2006-2012 data
2,606,504	503,377	62246	G-054656	I	200	10A	800	800	300	274	41(7)	20(7)	20(7)	42(7)	83	ARDC "Municipal" Well (estimated rate for 2009-2010)
2,655,527	480,289	63526	G-055912	I	135	NA	800	716	268	185	86	0	71	0	196	
2,658,246	471,310	63528	G-055914	I	200	NA	900	900	338	274	127	0	105	0	289	
2,655,022	472,990	63529	G-055915	I	150	NA	800	795	298	205	95	0	79	0	217	
2,660,875	490,422	63905	G-056278	I	40	NA	700	212	80	55	25	0	21	0	58	
2,660,041	508,907	64148	G-056513	I	30	NA	750	159	60	41	19	0	16	0	44	
2,659,904	511,554	64149	G-056514	I	40	NA	750	212	80	55	25	0	21	0	58	
2,635,152	507,801	64375	G-056729	I	120	NA	900	636	239	164	76	0	63	0	173	
2,616,732	520,942	64848	G-057184	I	140	NA	800	742	278	192	89	0	73	0	203	
2,608,488	520,361	64983	G-057314	I	144	NA	950	763	286	197	0	0	0	0	0	Possibly redundant
2,603,020	514,751	64984	G-057315	I	100	NA	950	530	199	137	64	0	53	0	145	
2,613,899	479,133	65173	G-057497	I	160	NA	700	700	263	219	102	0	84	0	231	
2,630,732	486,524	65174	G-057498	I	160	NA	900	848	318	219	102	0	84	0	231	
2,633,844	476,036	65313	G-057634	I	320	NA	1000	1000	375	274	127	0	105	0	289	
2,657,858	528,629	65751	G-058057	I	40	NA	700	212	80	55	25	0	21	0	58	
2,657,817	529,948	65752	G-058058	I	60	NA	1000	318	119	82	38	0	32	0	87	
2,613,262	525,423	66030	G-058325	I	40	NA	1000	212	80	55	25	0	21	0	58	
2,660,354	472,541	66145	G-058437	I	60	NA	700	318	119	82	38	0	32	0	87	
2,596,692	507,873	66257	G-058543	I	130	NA	700	689	258	178	83	0	68	0	189	
2,597,411	517,229	66423	G-058723	I	80	NA	700	424	159	110	51	0	42	0	116	
2,620,524	476,762	66524	G-058820	I	175	NA	900	900	338	240	112	0	92	0	254	
2,633,280	521,723	66668	G-058958	I	160	NA	550	550	206	219	102	0	84	0	231	
2,594,054	507,951	66829	G-059114	I	40	NA	600	212	80	55	25	0	21	0	58	
2,596,796	506,557	66830	G-059115	I	160	NA	1100	424	159	110	51	0	42	0	116	
2,619,338	474,071	66950	G-059231	I	100	NA	300	300	113	137	64	0	53	0	145	
2,630,445	462,658	67297	G-059549	I	80	NA	NA	424	159	110	51	0	42	0	116	
2,616,593	476,599	67438	G-059681	I	75	NA	1100	398	149	103	48	0	39	0	109	
2,633,386	519,681	68020	G-060250	I	5	NA	100	27	10	7	3	0	3	0	7	
2,607,910	527,879	68196	G-060417	I	53	NA	800	281	105	73	33	0	28	0	76	
2,655,831	484,957	68690	G-060900	I	65	NA	700	345	129	89	42	0	34	0	94	
2,597,672	513,220	68797	G-060988	I	100	NA	800	530	199	137	64	0	53	0	145	
2,654,791	478,245	68825	G-061009	I	240	NA	800	800	300	329	153	0	125	0	347	
2,658,047	495,572	69456	G-061620	I	40	NA	400	212	80	55	25	0	21	0	58	
2,653,362	480,869	69538	G-061703	I	105	NA	600	557	209	144	67	0	55	0	152	
2,605,010	530,522	69919	G-062082	I	77	NA	700	408	153	105	49	0	40	0	111	
2,596,171	527,476	70227	G-062375	I	60	NA	750	318	119	82	38	0	32	0	87	
2,594,840	515,888	71086	G-063187	I	80	NA	850	424	159	110	51	0	42	0	116	
2,608,143	483,511	71102	G-063202	I	133	NA	480	480	180	182	85	0	70	0	193	
2,631,146	477,249	71989	G-064065	I	150	NA	700	700	263	205	95	0	79	0	217	
2,612,237	518,748	72149	G-064207	I	160	NA	800	800	300	219	102	0	84	0	231	
2,656,633	525,900	72185	G-064243	I	101	NA	600	535	201	138	64	0	53	0	147	

Table 2-19
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2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Easting (ft NAD 83)	Northing (ft NAD 83)	NDNR Well ID	NDNR Registration Code	Use ID	Acres on Registration	ARDC ID (5)	Registration Pumping Rate (gpm)	Peak Irrigation Rate (gpm) (2)	Avg. Pumping Rate Over Irrigation Season Based on 3/8 of Peak Irrigation Rate (gpm)	Pumping Rate Based on Average Net Irrig. Req. Over Irrigation Season (gpm) (3)	2010 Irrigation Season Avg. Pumping Rate (gpm)	Non-Irrigation Season Avg. Pumping Rate (gpm)	2011 Irrigation Season Avg. Pumping Rate (gpm)	2012 Non-Irrigation Season Avg. Pumping Rate (gpm)	2012 Irrigation Season Avg. Pumping Rate (gpm)	Notes:
2,654,149	523,139	72669	G-064703	I	50	NA	500	265	99	68	32	0	26	0	72	
2,603,229	510,775	72875	G-064906	I	150	NA	700	700	263	205	95	0	79	0	217	
2,625,241	523,320	73575	G-065584	I	131	NA	800	694	260	179	84	0	69	0	190	Well replaced in 2011 with lower pumping rate and fewer irrigated acres
2,606,725	521,389	73580	G-065589	I	160	NA	900	848	318	219	102	0	84	0	231	
2,606,138	518,093	73673	G-065682	I	130	NA	800	689	258	178	83	0	68	0	189	
2,606,423	512,831	73674	G-065683	I	85	NA	700	451	169	116	54	0	44	0	123	
2,614,308	515,515	73675	G-065684	I	170	NA	1000	901	338	233	109	0	89	0	247	
2,610,763	522,725	73866	G-065871	I	150	NA	850	795	298	205	95	0	79	0	217	
2,656,541	528,563	73905	G-065908	I	60	NA	600	318	119	82	38	0	32	0	87	
2,598,696	525,024	73985	G-065987	I	155	NA	700	700	263	212	99	0	81	0	224	
2,593,326	526,170	74254	G-066246	I	160	NA	800	800	300	219	102	0	84	0	231	
2,612,994	530,714	74376	G-066364	I	160	NA	800	800	300	219	102	0	84	0	231	
2,644,045	514,693	74550	G-066531	I	115	NA	600	600	225	157	73	0	60	0	166	
2,642,592	466,295	186197	G-066614	I	122	NA	900	647	242	167	78	0	64	0	176	Registered since 2006
2,619,945	523,080	75350	G-067290	I	65	NA	1000	345	129	89	42	0	34	0	94	
2,599,552	505,296	75535	G-067472	I	160	NA	900	848	318	219	102	0	84	0	231	
2,647,861	487,194	75689	G-067620	I	220	NA	1000	1000	375	301	140	0	115	0	319	
2,606,303	497,012	76137	G-068060	I	110	IR22	1000	302	113	78	52	0	40(7)	0	167(7)	ARDC well with 2006-2012 data
2,634,970	513,114	76467	G-068383	I	80	NA	850	424	159	110	51	0	42	0	116	
2,629,953	506,255	77324	G-069184	I	80	NA	900	424	159	110	51	0	42	0	116	
2,625,120	525,948	77350	G-069208	I	235	NA	1000	1000	375	322	149	0	123	0	340	
2,595,398	517,866	78376	G-070210	I	153	NA	800	800	300	209	97	0	80	0	221	
2,621,508	523,814	78560	G-070398	I	160	NA	900	848	318	219	102	0	84	0	231	
2,591,394	517,768	78777	G-070615	I	160	NA	1000	848	318	219	102	0	84	0	231	
2,618,516	525,630	79331	G-071170	I	110	NA	700	583	219	151	70	0	58	0	159	
2,601,249	508,782	79524	G-071362	I	90	NA	600	477	179	123	57	0	47	0	130	
2,603,064	528,589	79525	G-071363	I	130	NA	700	689	258	178	83	0	68	0	189	
2,596,137	524,213	80285	G-072122	I	111	NA	750	588	221	152	71	0	58	0	161	Well replaced in 2011 with higher rate and fewer irrigated acres
2,592,558	528,251	80286	G-072123	I	230	NA	850	850	319	315	146	0	120	0	333	
2,600,705	523,226	80302	G-072139	I	120	NA	650	636	239	164	76	0	63	0	173	
2,628,706	487,137	80939	G-072751	I	340	NA	900	345	129	89	42	0	34	0	94	
2,616,353	518,282	150951	G-072842	I	60	NA	900	318	119	82	38	0	32	0	87	
2,659,468	506,910	81487	G-073294	I	80	NA	800	424	159	110	51	0	42	0	116	
2,658,523	504,371	81662	G-073449	I	160	NA	800	800	300	219	102	0	84	0	231	
2,620,667	489,385	81881	G-073545	I	65	NA	900	345	129	89	42	0	34	0	94	
2,599,167	528,473	82087	G-073751	I	130	NA	700	689	258	178	83	0	68	0	189	
2,663,276	472,486	178675	G-073894	I	147	NA	1000	779	292	201	94	0	77	0	213	Registered since 2006
2,635,914	505,838	82694	G-074349	I	120	NA	1000	636	239	164	76	0	63	0	173	
2,636,320	495,923	82696	G-074351	I	80	NA	1000	424	159	110	51	0	42	0	116	
2,597,603	530,967	84869	G-076374	I	132	NA	650	650	244	181	84	0	69	0	192	
2,610,545	528,001	85302	G-076735	I	76	NA	750	403	151	104	48	0	40	0	110	
2,623,023	489,507	86633	G-077970	I	227.1	NA	800	689	258	178	83	0	68	0	189	
2,628,551	492,400	87038	G-078375	I	275	NA	750	689	258	178	83	0	68	0	189	
2,627,455	483,026	87039	G-078376	I	80	NA	400	400	150	110	51	0	42	0	116	
2,657,101	504,927	90371	G-081565	I	125	NA	1000	663	248	171	79	0	65	0	180	
2,658,832	491,034	90565	G-081652	I	135	NA	850	716	268	185	86	0	71	0	196	
2,660,838	489,061	90566	G-081653	I	78	NA	1035	413	155	107	50	0	41	0	113	
2,658,967	488,378	91816	G-082391	I	157	NA	800	800	300	215	100	0	82	0	227	
2,610,568	529,331	95399	G-084655	I	39	NA	400	207	78	53	25	0	20	0	56	
2,621,351	473,531	96480	G-085344	I	137	NA	500	500	188	188	87	0	72	0	199	

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Easting (ft NAD 83)	Northing (ft NAD 83)	NDNR Well ID	NDNR Registration Code	Use ID	Acres on Registration	ARDC ID (5)	Registration Pumping Rate (gpm)	Peak Irrigation Rate (gpm) (2)	Avg. Pumping Rate Over Irrigation Season Based on 3/8 of Peak Irrigation Rate (gpm)	Pumping Rate Based on Average Net Irrig. Req. Over Irrigation Season (gpm) (3)	2010 Irrigation Season Avg. Pumping Rate (gpm)	Non-Irrigation Season Avg. Pumping Rate (gpm)	2011 Irrigation Season Avg. Pumping Rate (gpm)	2012 Non-Irrigation Season Avg. Pumping Rate (gpm)	2012 Irrigation Season Avg. Pumping Rate (gpm)	Notes:
2,620,398	527,781	96791	G-085522	I	240	NA	1200	1200	450	329	153	0	125	0	347	
2,599,994	518,611	98823	G-087076	I	94	NA	750	498	187	129	60	0	49	0	137	
2,630,813	500,318	99112	G-087283	I	75	NA	1200	398	149	103	48	0	39	0	109	
2,619,232	491,940	99532	G-087637	I	120	NA	600	600	225	164	76	0	63	0	173	
2,614,733	511,212	99912	G-087929	I	150	IR24	720	657	246	170	153	0	151(7)	0	288(7)	ARDC well with 2006-2012 data
2,626,046	484,318	100360	G-088331	I	135	NA	800	716	268	185	86	0	71	0	196	
2,663,120	483,262	101558	G-089306	I	65	NA	850	345	129	89	42	0	34	0	94	
2,629,488	526,885	106078	G-090720	I	135	NA	800	716	268	185	86	0	71	0	196	
2,618,510	511,668	106430	G-091546	P	0	9	650	0	0	0	4(7)	66(7)	66(7)	73(7)	9	ARDC "Municipal" Well (estimated rate for 2009-2010)
2,597,944	523,229	104851	G-091614	I	120	NA	750	636	239	164	76	0	63	0	173	
2,643,731	492,946	102747	G-093865	I	120	NA	750	636	239	164	76	0	63	0	173	
2,592,368	530,855	109399	G-094011	I	NA	NA	800	689	258	178	83	0	68	0	189	
2,661,238	497,690	110243	G-094585	I	80	NA	900	424	159	110	51	0	42	0	116	
2,610,644	508,919	113182	G-096581	I	65	IR21	900	159	60	41	0	0	0	0	0	ARDC well with 2006-2008 data
2,604,932	506,494	113183	G-096582	I	55	IRR18	671	281	105	73	73	0	58(7)	0	149(7)	ARDC well with 2006-2012 data
2,609,434	507,530	113185	G-096584	I	130	IR20	850	700	262	181	108	0	133(7)	0	333(7)	ARDC well with 2006-2012 data
2,608,701	496,990		G-096587	P								10(7)	10(7)	0	0	
2,613,352	510,409	113196	G-096588	I	200	27	460	460	173	274	57(7)	4(7)	4(7)	32(7)	104	ARDC "Municipal" Well (estimated rate for 2009-2010)
2,625,333	502,770	113197	G-096589	I	100	15	800	795	298	205	48	0	8(7)	0(7)	30(7)	ARDC well with 2011-2012 Data
2,656,449	521,093	113269	G-096627	I	60	NA	130	130	49	82	38	0	32	0	87	
2,627,304	521,422	113075	G-096904	I	130	NA	800	689	258	178	83	0	68	0	189	
2,608,645	520,267	107409	G-096933	I	180	NA	500	500	188	246	115	0	94	0	261	
2,591,407	524,632	113193	G-097207	I	35	NA	350	186	70	48	22	0	18	0	51	
2,655,591	474,984	115706	G-098758	I	135	NA	1000	716	268	185	86	0	71	0	196	
2,656,877	509,493	119284	G-101198	I	100	NA	700	530	199	137	64	0	53	0	145	
2,645,496	529,372	124031	G-104278	I	139	NA	NA	737	276	190	89	0	73	0	202	
2,657,890	475,255	125702	G-105704	I	50	NA	800	265	99	68	32	0	26	0	72	
2,635,263	521,766	122511	G-105753	I	240	NA	650	650	244	274	127	0	105	0	289	
2,635,926	503,312	125873	G-105797	I	130	NA	650	650	244	178	83	0	68	0	189	
2,609,646	504,886	125876	G-105800	I	130	26	810	663	248	171	113	0	112(7)	0(7)	323(7)	ARDC well with 2006-2012 data
2,617,260	504,910	125877	G-105801	I	130	28	850	753	282	194	102	0	106(7)	0(7)	350(7)	ARDC well with 2006-2012 data
2,622,698	505,266	125878	G-105802	I	NA	29	740	636	239	164	103	0	93(7)	0(7)	247(7)	ARDC well with 2006-2012 data
2,653,492	525,227	128037	G-107321	I	110	NA	1000	583	219	151	70	0	58	0	159	
2,644,478	531,589	128080	G-108180	I	10	NA	35	35	13	14	6	0	5	0	14	
2,644,241	530,762	130103	G-108647	I	85	NA	500	451	169	116	54	0	44	0	123	
2,634,769	518,457	130341	G-109287	I	40	NA	400	212	80	55	25	0	21	0	58	
2,608,891	525,971	121253	G-109448	I	150	NA	750	750	281	205	95	0	79	0	217	
2,644,164	481,003	130750	G-109619	I	26	NA	670	138	52	36	17	0	14	0	38	
2,647,294	485,182	113192	G-110360	I	100	NA	700	530	199	137	64	0	53	0	145	
2,597,988	520,526	121252	G-112438	I	120	NA	750	636	239	164	76	0	63	0	173	
2,646,554	503,655	136953	G-113392	I	NA	NA	400	400	150	178	83	0	68	0	189	
2,646,418	469,230	136179	G-113882	I	85	NA	800	451	169	116	54	0	44	0	123	
2,630,350	510,942	166039	G-114521	I	133	NA	900	705	264	182	85	0	70	0	193	
2,662,287	491,290	140664	G-116108	I	90	NA	700	477	179	123	57	0	47	0	130	
2,645,742	483,954	141459	G-116504	I	90	NA	800	477	179	123	57	0	47	0	130	
2,637,394	474,771	154861	G-127035	I	100	NA	400	400	150	137	64	0	53	0	145	
2,644,878	468,099	154862	G-127071	I	150	NA	700	700	263	205	95	0	79	0	217	
2,627,701	513,550	157447	G-127133	I	160	NA	900	848	318	219	102	0	84	0	231	
2,597,927	528,136	157787	G-127250	I	110	NA	550	550	206	151	70	0	58	0	159	
2,600,659	518,630	151643	G-127321	I	280	NA	1200	530	199	137	64	0	53	0	145	

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2,629,718	465,845	159089	G-127545	I	65	NA	500	345	129	89	42	0	34	0	94	
2,598,308	514,886	159821	G-128997	I	75	NA	500	398	149	103	48	0	39	0	109	
2,625,209	508,095	186812	G-129063	I	309	NA	900	900	338	423	197	0	162	0	447	
2,637,989	519,189	159820	G-130797	I	80	NA	1100	424	159	110	51	0	42	0	116	
2,611,774	512,551	163675	G-131085	I	177	NA	780	780	293	242	113	0	93	0	257	
2,639,705	477,241	157114	G-132237	I	100	NA	400	400	150	137	64	0	53	0	145	
2,630,320	512,147	146189	G-133366	I	110	NA	800	583	219	151	70	0	58	0	159	
2,636,529	489,925	166038	G-134121	I	150	NA	800	795	298	205	95	0	79	0	217	
2,633,275	487,156	167378	G-134176	I	70	NA	800	371	139	96	45	0	37	0	102	
2,611,295	500,037	169687	G-135522	I	75	30	450	398	149	103	38	0	30(7)	0(7)	137(7)	ARDC well with 2006-2012 data
2,630,812	515,004	167115	G-135542	I	80	NA	200	200	75	110	51	0	42	0	116	
2,629,846	516,179	167117	G-135543	I	8	NA	200	42	16	11	5	0	4	0	11	
2,646,668	498,252	169693	G-135895	I	65	NA	800	345	129	89	42	0	34	0	94	
2,635,492	516,516	170362	G-136000	I	68	NA	700	360	135	93	43	0	36	0	99	
2,618,921	481,253	171088	G-136149	I	89	NA	600	472	177	122	56	0	46	0	128	
2,626,510	473,638	171089	G-136150	I	260	NA	800	800	300	356	166	0	136	0	376	
2,618,041	489,262	171258	G-136318	I	140	NA	950	742	278	192	89	0	73	0	203	
2,594,241	492,568	170410	G-136326	I	65	NA	1000	345	129	89	42	0	34	0	94	
2,595,476	493,878	170409	G-136327	I	87	NA	850	461	173	119	55	0	45	0	125	
2,636,623	494,993	177104	G-136409	I	90	NA	800	477	179	123	19(8)	0	7(8)	0	133(8)	This well was fitted with totalizer in 2010. Readings taken by field perso
2,631,126	514,814	170356	G-136517	I	80	NA	200	200	75	110	51	0	42	0	116	
2,635,080	511,738	169010	G-136617	I	100	NA	1000	530	199	137	64	0	53	0	145	
2,633,043	512,445	172606	G-137529	I	140	NA	800	742	278	192	89	0	73	0	203	
2,653,212	530,397	173328	G-137912	I	78	NA	800	413	155	107	50	0	41	0	113	
2,614,205	520,797	170711	G-138821	I	100	NA	1000	530	199	137	64	0	53	0	145	
2,639,999	502,121	174192	G-138924	I	205	NA	1200	1087	407	281	131	0	108	0	298	
2,632,824	517,710	170351	G-139140	I	136	NA	700	700	263	186	87	0	71	0	197	
2,627,189	524,061	176541	G-140041	I	160	NA	750	750	281	219	102	0	84	0	231	
2,611,211	530,658	176565	G-140862	I	3	NA	75	16	6	4	2	0	2	0	4	
2,619,388	521,052	175462	G-140863	I	80	NA	800	424	159	110	51	0	42	0	116	
2,638,335	499,295	165141	G-144326	I	67	NA	1000	355	133	92	43	0	35	0	97	
2,610,706	520,351	186125	G-146158	I	140	NA	600	600	225	192	89	0	73	0	203	
2,646,753	466,648	187763	G-146379	I	104	NA	800	551	207	142	66	0	55	0	151	
2,617,134	479,701	185006	G-146939	I	110	NA	800	583	219	151	70	0	58	0	159	
2,599,970	519,207	192140	G-149433	I	120	NA	700	636	239	164	76	0	63	0	173	
2,594,745	519,805	187727	G-151522	I	40	NA	885	212	80	55	25	0	21	0	58	
2,606,811	529,609	183872	G-152097	I	3	NA	200	16	6	4	2	0	2	0	4	
2,642,253	495,525	183845	G-152423	I	35	NA	250	186	70	48	22	0	18	0	51	
2,643,557	498,322	175697	G-152424	I	80	NA	250	250	94	110	51	0	42	0	116	
2,641,518	486,272	183844	G-152458	I	44	NA	250	233	87	60	28	0	23	0	63	
2,635,229	531,920	195662	G-155221	I	2.5	NA	20	13	5	3	0	0	2	0	4	Newly registered since 2010
2,592,818	521,510	205286	G-156154	I	180	NA	800	800	300	246	0	0	94	0	261	Newly registered since 2010
2,656,898	488,356	208534	G-157943	I	65	NA	0	0	0	89	0	0	34	0	94	Newly registered since 2010
2,594,609	530,204	204433	G-158669	I	63.7	NA	700	338	127	87	0	0	33	0	92	Newly registered since 2010
2,658,583	484,225	210554	G-158991	I	134	NA	3500	710	266	183	0	0	70	0	195	Newly registered since 2010
2,614,653	507,652	206757	G-159854	I	123	NA	0	0	0	168	0	0	64	0	178	Newly registered since 2010
2,608,084	491,426	212072	G-161181	I	77	NA	300	300	113	105	0	0	40	0	111	Newly registered since 2010
2,607,451	491,498	213489	G-161182	I	77	NA	300	300	113	105	0	0	40	0	111	Newly registered since 2010
2,653,688	481,545	215668	G-161915	I	70	NA	1250	371	139	96	0	0	37	0	102	Newly registered since 2010
2,631,823	508,025	215186	G-162095	I	68	NA	750	360	135	93	0	0	36	0	99	Newly registered since 2010

Table 2-19
Irrigation Wells and Estimated Pumping Rates (2010-2012)
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Easting (ft NAD 83)	Northing (ft NAD 83)	NDNR Well ID	NDNR Registration Code	Use ID	Acres on Registration	ARDC ID (5)	Registration Pumping Rate (gpm)	Peak Irrigation Rate (gpm) (2)	Avg. Pumping Rate Over Irrigation Season Based on 3/8 of Peak Irrigation Rate (gpm)	Pumping Rate Based on Average Net Irrig. Req. Over Irrigation Season (gpm) (3)	2010 Irrigation Season Avg. Pumping Rate (gpm)	Non-Irrigation Season Avg. Pumping Rate (gpm)	2011 Irrigation Season Avg. Pumping Rate (gpm)	2012 Non-Irrigation Season Avg. Pumping Rate (gpm)	2012 Irrigation Season Avg. Pumping Rate (gpm)	Notes:
2,621,624	497,756	175458	G-163023	I	24	NA	300	127	48	33	0	0	13	0	35	Newly registered since 2010

Notes:

1) Pumping simulated for only one well per quarter section if total acreage for quarter section exceeds 160 acres or total acreage of section exceeds 640 acres.
2) "Peak Irrigation Rate" is the peak pumping rate (during reproductive stage of development, typically in July)
assuming that all of the water will come from irrigation and none will come from precipitation or soil water storage.
The rate is based on a peak Crop Water Use of 0.33 inches per day, or 4.24gpm/acre, and an 80% water application efficiency.
The 4.24gpm/acre value is from "Minimum Center Pivot Design Capacities in Nebraska" (IANR, 1989).
This rate is a peak rate, and when used as an average rate over the season, results in greater dewatering than is supported by groundwater level observations.
3) The average net irrrigation requirement is 6.68 inches for fully irrigated corn based on temperature and precipitation data for Wahoo for the period 1949-2004.
From "2006 Annual Evaluation of Hydrologically Connected Water Supplies" (NDNR, 2005).
The estimated rate assumes a 92-day (June, July, and August) irrigation season, and assumes 100% water application efficiency.
Although the pumping rate must be higher than 6.68 inches due to inefficiencies in water application,
the reduction in rate due to the assumption of 100% efficiency is meant to compensate for the unknown number of unused wells in fallow fields or pasture.
4) The total registered acreage of wells in a section often exceed 640 acres. Aerial photos and NDNR 2005 irrigation map were used
in some instances to estimate acreage for wells having registered acreage greater than 160, or to identify older, redundant wells that have remained registered but unused.
5) Location from ARDC survey. All other locations from registration coordinates.
6) Location in inactive area of model.
7) Measured ARDC pumping rate.
8) Irrigation Season pumping rates are adjusted each year according to measured changes in ARDC wells and the assumptions used in Note 3
8) Measured totalizer reading, averaged over the 92 day summer irrigation period

ARDC - Agricultural Research and Development Center
Avg. - Average
Cr. - Creek
Est. - Estimated
AWDN - Automated Weather Data Network
ft - Feet
gpm - Gallons per minute
HPRCC - High Plains Regional Climate Center
I - Irrigation
ID - Identification
Irrig. Req. - Irrigation Requirement
NA - Not Available or Not Applicable
NAD 83 - North American Datum of 1983
NDNR - Nebraska Department of Natural Resources
NOP - Nebraska Ordnance Well
NWS - National Weather Service
P - Public
SW - Southwest

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Table 2-20
Groundwater Use Statistics, Saunders County
2012 Groundwater Model Report
Former NOP, Mead, Nebraska

	Public Supply	**Domestic**	**Irrigation**	**Aquaculture**	**Industrial**	**Live-stock**	**Total**
Average Volume (MGD)	43.52	1.29	96.86	0.6	0.09	0.87	143.23
Percent of Total	30.40%	0.90%	67.60%	0.40%	0.06%	0.60%	

From: *Water Use in Nebraska, 2005* (USGS, 2005)

Notes:
MGD -million gallons per day
NOP - Nebraska Ordnance Plant

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Table 3-1
RDX in Monitoring Wells and Direct-Push Samples (2008-2012)
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T53-03	LL1	506959.98	2606501.18	12/6/2008	Shallow	12
GP-T53-03	LL1	506959.98	2606501.18	12/6/2008	Shallow	ND
GP-T53-03	LL1	506959.98	2606501.18	12/6/2008	Shallow	0.3 J
GP-T53-03	LL1	506959.98	2606501.18	12/6/2008	Shallow	ND
GP-T53-03	LL1	506959.98	2606501.18	12/6/2008	Shallow	ND
GP-T53-03	LL1	506959.98	2606501.18	12/5/2008	Shallow	ND
GP-T53-03	LL1	506959.98	2606501.18	12/5/2008	Shallow	ND
GP-T53-03	LL1	506959.98	2606501.18	12/5/2008	Intermediate	ND
GP-T53-03	LL1	506959.98	2606501.18	12/5/2008	Intermediate	ND
GP-T53-03	LL1	506959.98	2606501.18	12/5/2008	Intermediate	ND
GP-T53-03	LL1	506959.98	2606501.18	12/5/2008	Intermediate	ND
GP-T53-04	LL1	507089.22	2606946.91	12/9/2008	Shallow	ND
GP-T53-04	LL1	507089.22	2606946.91	12/9/2008	Shallow	ND
GP-T53-04	LL1	507089.22	2606946.91	12/9/2008	Shallow	ND
GP-T53-04	LL1	507089.22	2606946.91	12/9/2008	Shallow	ND
GP-T53-04	LL1	507089.22	2606946.91	12/9/2008	Intermediate	ND
GP-T53-04	LL1	507089.22	2606946.91	12/9/2008	Intermediate	ND
GP-T53-04	LL1	507089.22	2606946.91	12/9/2008	Intermediate	ND
GP-T53-04	LL1	507089.22	2606946.91	12/9/2008	Intermediate	ND
GP-T53-04	LL1	507089.22	2606946.91	12/9/2008	Intermediate	ND
GP-T53-05	LL1	507214.37	2607362.06	12/9/2008	Shallow	ND
GP-T53-05	LL1	507214.37	2607362.06	12/9/2008	Shallow	ND
GP-T53-05	LL1	507214.37	2607362.06	12/9/2008	Shallow	ND
GP-T53-05	LL1	507214.37	2607362.06	12/9/2008	Shallow	ND
GP-T53-05	LL1	507214.37	2607362.06	12/9/2008	Intermediate	ND
GP-T53-05	LL1	507214.37	2607362.06	12/9/2008	Intermediate	ND
GP-T53-05	LL1	507214.37	2607362.06	12/9/2008	Intermediate	ND
GP-T53-05	LL1	507214.37	2607362.06	12/9/2008	Intermediate	ND
GP-T53-05	LL1	507214.37	2607362.06	12/9/2008	Intermediate	ND
GP-T54-01	LL1	505750.14	2607306.85	12/17/2008	Shallow	ND
GP-T54-01	LL1	505750.14	2607306.85	12/17/2008	Shallow	ND
GP-T54-01	LL1	505750.14	2607306.85	12/17/2008	Shallow	ND
GP-T54-01	LL1	505750.14	2607306.85	12/17/2008	Shallow	ND
GP-T54-01	LL1	505750.14	2607306.85	12/17/2008	Intermediate	ND
GP-T54-01	LL1	505750.14	2607306.85	12/17/2008	Intermediate	ND
GP-T54-01	LL1	505750.14	2607306.85	12/17/2008	Intermediate	ND
GP-T54-01	LL1	505750.14	2607306.85	12/17/2008	Intermediate	ND
GP-T54-01	LL1	505750.14	2607306.85	12/17/2008	Intermediate	ND
GP-T54-02	LL1	505900.47	2607762.52	12/10/2008	Shallow	ND
GP-T54-02	LL1	505900.47	2607762.52	12/10/2008	Shallow	ND
GP-T54-02	LL1	505900.47	2607762.52	12/10/2008	Shallow	ND
GP-T54-02	LL1	505900.47	2607762.52	12/10/2008	Shallow	ND
GP-T54-02	LL1	505900.47	2607762.52	12/10/2008	Shallow	ND
GP-T54-02	LL1	505900.47	2607762.52	12/10/2008	Intermediate	ND
GP-T54-02	LL1	505900.47	2607762.52	12/10/2008	Intermediate	ND
GP-T54-02	LL1	505900.47	2607762.52	12/10/2008	Intermediate	ND
GP-T54-02	LL1	505900.47	2607762.52	12/10/2008	Intermediate	ND

Table 3-1
RDX in Monitoring Wells and Direct-Push Samples (2008-2012)
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T54-02	LL1	505900.47	2607762.52	12/10/2008	Intermediate	ND
GP-T54-03	LL1	506024.71	2608101.97	12/10/2008	Shallow	ND
GP-T54-03	LL1	506024.71	2608101.97	12/10/2008	Shallow	ND
GP-T54-03	LL1	506024.71	2608101.97	12/10/2008	Shallow	ND
GP-T54-03	LL1	506024.71	2608101.97	12/10/2008	Shallow	ND
GP-T54-03	LL1	506024.71	2608101.97	12/9/2008	Shallow	ND
GP-T54-03	LL1	506024.71	2608101.97	12/9/2008	Intermediate	ND
GP-T54-03	LL1	506024.71	2608101.97	12/9/2008	Intermediate	ND
GP-T54-03	LL1	506024.71	2608101.97	12/9/2008	Intermediate	ND
GP-T54-03	LL1	506024.71	2608101.97	12/9/2008	Intermediate	ND
GP-T54-03	LL1	506024.71	2608101.97	12/9/2008	Intermediate	0.2 J
GP-T55-01	LL1	504273.64	2607044.95	12/7/2008	Shallow	ND
GP-T55-01	LL1	504273.64	2607044.95	12/7/2008	Shallow	1.2
GP-T55-01	LL1	504273.64	2607044.95	12/7/2008	Shallow	ND
GP-T55-01	LL1	504273.64	2607044.95	12/7/2008	Shallow	3.5
GP-T55-01	LL1	504273.64	2607044.95	12/7/2008	Shallow	ND
GP-T55-01	LL1	504273.64	2607044.95	12/7/2008	Intermediate	ND
GP-T55-01	LL1	504273.64	2607044.95	12/7/2008	Intermediate	ND
GP-T55-01	LL1	504273.64	2607044.95	12/7/2008	Intermediate	ND
GP-T55-01	LL1	504273.64	2607044.95	12/7/2008	Intermediate	ND
GP-T55-01	LL1	504273.64	2607044.95	12/7/2008	Intermediate	ND
GP-T55-02	LL1	504353.04	2607241.04	12/7/2008	Shallow	ND
GP-T55-02	LL1	504353.04	2607241.04	12/7/2008	Shallow	0.2 J
GP-T55-02	LL1	504353.04	2607241.04	12/7/2008	Shallow	ND
GP-T55-02	LL1	504353.04	2607241.04	12/7/2008	Shallow	ND
GP-T55-02	LL1	504353.04	2607241.04	12/6/2008	Shallow	ND
GP-T55-02	LL1	504353.04	2607241.04	12/6/2008	Shallow	ND
GP-T55-02	LL1	504353.04	2607241.04	12/6/2008	Intermediate	ND
GP-T55-02	LL1	504353.04	2607241.04	12/6/2008	Intermediate	ND
GP-T55-02	LL1	504353.04	2607241.04	12/6/2008	Intermediate	ND
GP-T55-02	LL1	504353.04	2607241.04	12/6/2008	Intermediate	ND
GP-T55-03	LL1	504487.13	2607494.36	12/8/2008	Shallow	6.3
GP-T55-03	LL1	504487.13	2607494.36	12/8/2008	Shallow	0.5 J
GP-T55-03	LL1	504487.13	2607494.36	12/8/2008	Shallow	ND
GP-T55-03	LL1	504487.13	2607494.36	12/8/2008	Shallow	ND
GP-T55-03	LL1	504487.13	2607494.36	12/8/2008	Shallow	ND
GP-T55-03	LL1	504487.13	2607494.36	12/8/2008	Intermediate	ND
GP-T55-03	LL1	504487.13	2607494.36	12/8/2008	Intermediate	ND
GP-T55-03	LL1	504487.13	2607494.36	12/8/2008	Intermediate	ND
GP-T55-03	LL1	504487.13	2607494.36	12/8/2008	Intermediate	ND
GP-T55-03	LL1	504487.13	2607494.36	12/8/2008	Intermediate	ND
GP-T55-04	LL1	504669.64	2607856.5	12/17/2008	Shallow	ND
GP-T55-04	LL1	504669.64	2607856.5	12/17/2008	Shallow	ND
GP-T55-04	LL1	504669.64	2607856.5	12/17/2008	Shallow	ND
GP-T55-04	LL1	504669.64	2607856.5	12/17/2008	Shallow	ND
GP-T55-04	LL1	504669.64	2607856.5	12/17/2008	Intermediate	0.4 J
GP-T55-04	LL1	504669.64	2607856.5	12/17/2008	Intermediate	ND

Table 3-1
RDX in Monitoring Wells and Direct-Push Samples (2008-2012)
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T55-04	LL1	504669.64	2607856.5	12/17/2008	Intermediate	ND
GP-T55-04	LL1	504669.64	2607856.5	12/17/2008	Intermediate	ND
GP-T55-04	LL1	504669.64	2607856.5	12/17/2008	Intermediate	ND
GP-T55-05	LL1	504804.03	2608116.05	12/7/2008	Shallow	ND
GP-T55-05	LL1	504804.03	2608116.05	12/7/2008	Shallow	ND
GP-T55-05	LL1	504804.03	2608116.05	12/7/2008	Shallow	ND
GP-T55-05	LL1	504804.03	2608116.05	12/7/2008	Shallow	ND
GP-T55-05	LL1	504804.03	2608116.05	12/7/2008	Shallow	ND
GP-T55-05	LL1	504804.03	2608116.05	12/7/2008	Intermediate	ND
GP-T55-05	LL1	504804.03	2608116.05	12/7/2008	Intermediate	ND
GP-T55-05	LL1	504804.03	2608116.05	12/7/2008	Intermediate	ND
GP-T55-05	LL1	504804.03	2608116.05	12/7/2008	Intermediate	ND
GP-T55-05	LL1	504804.03	2608116.05	12/7/2008	Intermediate	ND
GP-T56-01	LL1	501192.67	2608792.24	12/18/2008	Shallow	ND
GP-T56-01	LL1	501192.67	2608792.24	12/18/2008	Shallow	ND
GP-T56-01	LL1	501192.67	2608792.24	12/18/2008	Shallow	ND
GP-T56-01	LL1	501192.67	2608792.24	12/18/2008	Intermediate	ND
GP-T56-01	LL1	501192.67	2608792.24	12/18/2008	Intermediate	ND
GP-T56-01	LL1	501192.67	2608792.24	12/18/2008	Intermediate	ND
GP-T56-01	LL1	501192.67	2608792.24	12/18/2008	Intermediate	ND
GP-T56-02	LL1	501614.9	2609130.77	12/15/2008	Shallow	26
GP-T56-02	LL1	501614.9	2609130.77	12/15/2008	Shallow	1.8
GP-T56-02	LL1	501614.9	2609130.77	12/15/2008	Shallow	ND
GP-T56-02	LL1	501614.9	2609130.77	12/15/2008	Shallow	ND
GP-T56-02	LL1	501614.9	2609130.77	12/15/2008	Intermediate	ND
GP-T56-02	LL1	501614.9	2609130.77	12/15/2008	Intermediate	ND
GP-T56-02	LL1	501614.9	2609130.77	12/15/2008	Intermediate	ND
GP-T56-02	LL1	501614.9	2609130.77	12/15/2008	Intermediate	ND
GP-T56-03	LL1	501678.16	2609313.55	12/16/2008	Shallow	0.4 J
GP-T56-03	LL1	501678.16	2609313.55	12/16/2008	Shallow	ND
GP-T56-03	LL1	501678.16	2609313.55	12/15/2008	Shallow	3.7
GP-T56-03	LL1	501678.16	2609313.55	12/15/2008	Shallow	ND
GP-T56-03	LL1	501678.16	2609313.55	12/15/2008	Intermediate	1.5
GP-T56-03	LL1	501678.16	2609313.55	12/15/2008	Intermediate	1.2
GP-T56-03	LL1	501678.16	2609313.55	12/15/2008	Intermediate	ND
GP-T56-03	LL1	501678.16	2609313.55	12/15/2008	Intermediate	ND
GP-T56-04	LL1	501902.04	2609518.35	12/16/2008	Shallow	ND
GP-T56-04	LL1	501902.04	2609518.35	12/16/2008	Shallow	ND
GP-T56-04	LL1	501902.04	2609518.35	12/16/2008	Shallow	ND
GP-T56-04	LL1	501902.04	2609518.35	12/16/2008	Shallow	ND
GP-T56-04	LL1	501902.04	2609518.35	12/16/2008	Intermediate	ND
GP-T56-04	LL1	501902.04	2609518.35	12/16/2008	Intermediate	ND
GP-T56-04	LL1	501902.04	2609518.35	12/16/2008	Intermediate	ND
GP-T56-04	LL1	501902.04	2609518.35	12/16/2008	Intermediate	ND
GP-T57-03	LL1	499962.08	2608852.45	11/20/2008	Shallow	ND
GP-T57-03	LL1	499962.08	2608852.45	11/20/2008	Shallow	ND
GP-T57-03	LL1	499962.08	2608852.45	11/20/2008	Shallow	ND

Table 3-1
RDX in Monitoring Wells and Direct-Push Samples (2008-2012)
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T57-03	LL1	499962.08	2608852.45	11/20/2008	Shallow	1.2
GP-T57-03	LL1	499962.08	2608852.45	11/20/2008	Intermediate	ND
GP-T57-03	LL1	499962.08	2608852.45	11/20/2008	Intermediate	ND
GP-T57-03	LL1	499962.08	2608852.45	11/20/2008	Intermediate	ND
GP-T57-03	LL1	499962.08	2608852.45	11/20/2008	Intermediate	ND
GP-T57-03	LL1	499962.08	2608852.45	11/20/2008	Intermediate	ND
GP-T57-04	LL1	500019.47	2609705.13	11/18/2008	Shallow	0.5 J
GP-T57-04	LL1	500019.47	2609705.13	11/18/2008	Shallow	ND
GP-T57-04	LL1	500019.47	2609705.13	11/18/2008	Shallow	0.3 J
GP-T57-04	LL1	500019.47	2609705.13	11/18/2008	Shallow	1.2
GP-T57-04	LL1	500019.47	2609705.13	11/18/2008	Shallow	1.1
GP-T57-04	LL1	500019.47	2609705.13	11/18/2008	Intermediate	ND
GP-T57-04	LL1	500019.47	2609705.13	11/18/2008	Intermediate	ND
GP-T57-04	LL1	500019.47	2609705.13	11/18/2008	Intermediate	ND
GP-T57-04	LL1	500019.47	2609705.13	11/18/2008	Intermediate	ND
GP-T57-04	LL1	500019.47	2609705.13	11/18/2008	Intermediate	ND
GP-T57-05	LL1	500036.53	2610331.29	11/18/2008	Shallow	ND
GP-T57-05	LL1	500036.53	2610331.29	11/18/2008	Shallow	ND
GP-T57-05	LL1	500036.53	2610331.29	11/17/2008	Shallow	ND
GP-T57-05	LL1	500036.53	2610331.29	11/17/2008	Shallow	ND
GP-T57-05	LL1	500036.53	2610331.29	11/17/2008	Intermediate	ND
GP-T57-05	LL1	500036.53	2610331.29	11/17/2008	Intermediate	ND
GP-T57-05	LL1	500036.53	2610331.29	11/17/2008	Intermediate	ND
GP-T57-05	LL1	500036.53	2610331.29	11/17/2008	Intermediate	ND
GP-T58-04	LL1	498196.08	2610169.39	12/8/2008	Shallow	ND
GP-T58-04	LL1	498196.08	2610169.39	12/8/2008	Shallow	ND
GP-T58-04	LL1	498196.08	2610169.39	12/8/2008	Shallow	ND
GP-T58-04	LL1	498196.08	2610169.39	12/8/2008	Shallow	ND
GP-T58-04	LL1	498196.08	2610169.39	12/8/2008	Intermediate	ND
GP-T58-04	LL1	498196.08	2610169.39	12/8/2008	Intermediate	ND
GP-T58-04	LL1	498196.08	2610169.39	12/8/2008	Intermediate	ND
GP-T58-04	LL1	498196.08	2610169.39	12/8/2008	Intermediate	ND
GP-T58-04	LL1	498196.08	2610169.39	12/8/2008	Intermediate	ND
GP-T58-05	LL1	498212.55	2610636.72	12/9/2008	Shallow	ND
GP-T58-05	LL1	498212.55	2610636.72	12/9/2008	Shallow	ND
GP-T58-05	LL1	498212.55	2610636.72	12/9/2008	Shallow	ND
GP-T58-05	LL1	498212.55	2610636.72	12/9/2008	Shallow	ND
GP-T58-05	LL1	498212.55	2610636.72	12/8/2008	Intermediate	ND
GP-T58-05	LL1	498212.55	2610636.72	12/8/2008	Intermediate	ND
GP-T58-05	LL1	498212.55	2610636.72	12/8/2008	Intermediate	ND
GP-T58-05	LL1	498212.55	2610636.72	12/8/2008	Intermediate	ND
GP-T58-05	LL1	498212.55	2610636.72	12/8/2008	Intermediate	ND
GP-T58-06	LL1	498154.73	2611022.78	11/19/2008	Shallow	ND
GP-T58-06	LL1	498154.73	2611022.78	11/19/2008	Shallow	ND
GP-T58-06	LL1	498154.73	2611022.78	11/19/2008	Shallow	ND
GP-T58-06	LL1	498154.73	2611022.78	11/19/2008	Shallow	ND
GP-T58-06	LL1	498154.73	2611022.78	11/19/2008	Intermediate	ND

Table 3-1
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T58-06	LL1	498154.73	2611022.78	11/18/2008	Intermediate	ND
GP-T58-06	LL1	498154.73	2611022.78	11/18/2008	Intermediate	ND
GP-T58-06	LL1	498154.73	2611022.78	11/18/2008	Intermediate	ND
GP-T58-07	LL1	498159.36	2611284.99	11/18/2008	Shallow	ND
GP-T58-07	LL1	498159.36	2611284.99	11/18/2008	Shallow	ND
GP-T58-07	LL1	498159.36	2611284.99	11/18/2008	Shallow	ND
GP-T58-07	LL1	498159.36	2611284.99	11/18/2008	Shallow	ND
GP-T58-07	LL1	498159.36	2611284.99	11/18/2008	Intermediate	ND
GP-T58-07	LL1	498159.36	2611284.99	11/18/2008	Intermediate	ND
GP-T58-07	LL1	498159.36	2611284.99	11/18/2008	Intermediate	ND
GP-T58-07	LL1	498159.36	2611284.99	11/18/2008	Intermediate	ND
GP-T70-007	LL1	505289.926	2608115.537	4/12/2010	Shallow	0.36 J
GP-T70-007	LL1	505289.926	2608115.537	4/12/2010	Shallow	0.12 J
GP-T70-007	LL1	505289.926	2608115.537	4/12/2010	Shallow	ND
GP-T70-007	LL1	505289.926	2608115.537	4/12/2010	Shallow	0.21 J
GP-T70-007	LL1	505289.926	2608115.537	4/12/2010	Intermediate	0.054 J
GP-T70-007	LL1	505289.926	2608115.537	4/12/2010	Intermediate	0.49
GP-T70-007	LL1	505289.926	2608115.537	4/12/2010	Intermediate	ND
GP-T70-007	LL1	505289.926	2608115.537	4/12/2010	Intermediate	0.31 J
GP-T70-007	LL1	505289.926	2608115.537	4/12/2010	Intermediate	ND
GP-T70-009	LL1	507053.799	2607911.333	4/13/2010	Shallow	0.044 J
GP-T70-009	LL1	507053.799	2607911.333	4/13/2010	Shallow	0.21 J
GP-T70-009	LL1	507053.799	2607911.333	4/13/2010	Shallow	0.22 J
GP-T70-009	LL1	507053.799	2607911.333	4/13/2010	Shallow	ND
GP-T70-009	LL1	507053.799	2607911.333	4/13/2010	Shallow	ND
GP-T70-009	LL1	507053.799	2607911.333	4/13/2010	Intermediate	ND
GP-T70-009	LL1	507053.799	2607911.333	4/13/2010	Intermediate	ND
GP-T70-009	LL1	507053.799	2607911.333	4/13/2010	Intermediate	ND
GP-T70-009	LL1	507053.799	2607911.333	4/13/2010	Intermediate	ND
GP-T70-009	LL1	507053.799	2607911.333	4/13/2010	Intermediate	ND
GP-T70-010	LL1	506879.311	2607373.052	4/13/2010	Shallow	0.17 J
GP-T70-010	LL1	506879.311	2607373.052	4/13/2010	Shallow	0.54
GP-T70-010	LL1	506879.311	2607373.052	4/13/2010	Shallow	0.14 J
GP-T70-010	LL1	506879.311	2607373.052	4/13/2010	Shallow	ND
GP-T70-010	LL1	506879.311	2607373.052	4/13/2010	Intermediate	ND
GP-T70-010	LL1	506879.311	2607373.052	4/13/2010	Intermediate	ND
GP-T70-010	LL1	506879.311	2607373.052	4/13/2010	Intermediate	0.18 J
GP-T70-010	LL1	506879.311	2607373.052	4/13/2010	Intermediate	ND
GP-T70-010	LL1	506879.311	2607373.052	4/13/2010	Intermediate	ND
GP-T70-011	LL1	506854.342	2606882.14	4/14/2010	Shallow	0.2
GP-T70-011	LL1	506854.342	2606882.14	4/14/2010	Shallow	0.17 J
GP-T70-011	LL1	506854.342	2606882.14	4/14/2010	Shallow	0.054 J
GP-T70-011	LL1	506854.342	2606882.14	4/14/2010	Shallow	ND
GP-T70-011	LL1	506854.342	2606882.14	4/14/2010	Intermediate	ND
GP-T70-011	LL1	506854.342	2606882.14	4/14/2010	Intermediate	ND
GP-T70-011	LL1	506854.342	2606882.14	4/14/2010	Intermediate	ND
GP-T70-011	LL1	506854.342	2606882.14	4/14/2010	Intermediate	ND

Table 3-1
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T70-011	LL1	506854.342	2606882.14	4/14/2010	Intermediate	ND
GP-T71-001	LL1	502130.692	2608467.684	4/22/2010	Shallow	15
GP-T71-001	LL1	502130.692	2608467.684	4/22/2010	Shallow	23
GP-T71-001	LL1	502130.692	2608467.684	4/22/2010	Shallow	16 J
GP-T71-001	LL1	502130.692	2608467.684	4/22/2010	Shallow	ND
GP-T71-001	LL1	502130.692	2608467.684	4/22/2010	Intermediate	0.069 J
GP-T71-001	LL1	502130.692	2608467.684	4/22/2010	Intermediate	ND
GP-T71-001	LL1	502130.692	2608467.684	4/22/2010	Intermediate	ND
GP-T71-001	LL1	502130.692	2608467.684	4/22/2010	Intermediate	ND
GP-T71-002	LL1	502592.588	2608446.423	4/26/2010	Shallow	51
GP-T71-002	LL1	502592.588	2608446.423	4/26/2010	Shallow	12
GP-T71-002	LL1	502592.588	2608446.423	4/26/2010	Shallow	0.39
GP-T71-002	LL1	502592.588	2608446.423	4/26/2010	Shallow	0.49 J
GP-T71-002	LL1	502592.588	2608446.423	4/26/2010	Intermediate	25
GP-T71-002	LL1	502592.588	2608446.423	4/26/2010	Intermediate	0.081 J
GP-T71-002	LL1	502592.588	2608446.423	4/26/2010	Intermediate	ND
GP-T71-002	LL1	502592.588	2608446.423	4/26/2010	Intermediate	ND
GP-T71-003	LL1	503110.918	2608423.335	4/27/2010	Shallow	2.4
GP-T71-003	LL1	503110.918	2608423.335	4/27/2010	Shallow	0.8
GP-T71-003	LL1	503110.918	2608423.335	4/27/2010	Shallow	3 J
GP-T71-003	LL1	503110.918	2608423.335	4/27/2010	Intermediate	1.5
GP-T71-003	LL1	503110.918	2608423.335	4/27/2010	Intermediate	ND
GP-T71-003	LL1	503110.918	2608423.335	4/26/2010	Intermediate	ND
GP-T71-003	LL1	503110.918	2608423.335	4/26/2010	Intermediate	ND
GP-T71-004	LL1	503609.315	2608372.077	4/22/2010	Shallow	0.13 J
GP-T71-004	LL1	503609.315	2608372.077	4/22/2010	Shallow	0.15 J
GP-T71-004	LL1	503609.315	2608372.077	4/22/2010	Shallow	0.058 J
GP-T71-004	LL1	503609.315	2608372.077	4/22/2010	Shallow	ND
GP-T71-004	LL1	503609.315	2608372.077	4/22/2010	Intermediate	ND
GP-T71-004	LL1	503609.315	2608372.077	4/22/2010	Intermediate	0.25 J
GP-T71-004	LL1	503609.315	2608372.077	4/22/2010	Intermediate	ND
GP-T71-004	LL1	503609.315	2608372.077	4/22/2010	Intermediate	0.48 J
GP-T71-005	LL1	504092.32	2608344.531	4/23/2010	Shallow	0.42 J
GP-T71-005	LL1	504092.32	2608344.531	4/23/2010	Shallow	0.2 J
GP-T71-005	LL1	504092.32	2608344.531	4/23/2010	Shallow	ND
GP-T71-005	LL1	504092.32	2608344.531	4/23/2010	Intermediate	ND
GP-T71-005	LL1	504092.32	2608344.531	4/23/2010	Intermediate	0.17 J
GP-T71-005	LL1	504092.32	2608344.531	4/23/2010	Intermediate	ND
GP-T71-005	LL1	504092.32	2608344.531	4/22/2010	Intermediate	ND
GP-T71-006	LL1	504581.038	2608320.233	4/23/2010	Shallow	ND
GP-T71-006	LL1	504581.038	2608320.233	4/23/2010	Shallow	0.16 J
GP-T71-006	LL1	504581.038	2608320.233	4/23/2010	Shallow	ND
GP-T71-006	LL1	504581.038	2608320.233	4/23/2010	Shallow	0.078 J
GP-T71-006	LL1	504581.038	2608320.233	4/23/2010	Intermediate	ND
GP-T71-006	LL1	504581.038	2608320.233	4/23/2010	Intermediate	ND
GP-T71-006	LL1	504581.038	2608320.233	4/23/2010	Intermediate	ND
GP-T71-006	LL1	504581.038	2608320.233	4/23/2010	Intermediate	ND

Table 3-1
RDX in Monitoring Wells and Direct-Push Samples (2008-2012)
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T71-007	LL1	504854.891	2608308.072	6/23/2010	Shallow	ND
GP-T71-007	LL1	504854.891	2608308.072	6/23/2010	Shallow	0.081 J
GP-T71-007	LL1	504854.891	2608308.072	6/23/2010	Shallow	0.058 J
GP-T71-007	LL1	504854.891	2608308.072	6/23/2010	Shallow	0.3
GP-T71-007	LL1	504854.891	2608308.072	6/23/2010	Intermediate	0.08 J
GP-T71-007	LL1	504854.891	2608308.072	6/23/2010	Intermediate	ND
GP-T71-007	LL1	504854.891	2608308.072	6/23/2010	Intermediate	ND
GP-T71-007	LL1	504854.891	2608308.072	6/23/2010	Intermediate	0.37
GP-T72-001	LL1	500418.64	2607636.812	4/22/2010	Shallow	0.31 J
GP-T72-001	LL1	500418.64	2607636.812	4/22/2010	Shallow	0.29 J
GP-T72-001	LL1	500418.64	2607636.812	4/22/2010	Shallow	0.11 J
GP-T72-001	LL1	500418.64	2607636.812	4/22/2010	Intermediate	0.059 J
GP-T72-001	LL1	500418.64	2607636.812	4/22/2010	Intermediate	ND
GP-T72-001	LL1	500418.64	2607636.812	4/22/2010	Intermediate	0.041 J
GP-T72-002	LL1	500944.101	2607749.514	4/21/2010	Shallow	ND
GP-T72-002	LL1	500944.101	2607749.514	4/21/2010	Shallow	0.25 J
GP-T72-002	LL1	500944.101	2607749.514	4/21/2010	Shallow	0.096 J
GP-T72-002	LL1	500944.101	2607749.514	4/21/2010	Intermediate	ND
GP-T72-002	LL1	500944.101	2607749.514	4/21/2010	Intermediate	ND
GP-T72-002	LL1	500944.101	2607749.514	4/21/2010	Intermediate	ND
GP-T72-002	LL1	500944.101	2607749.514	4/21/2010	Intermediate	0.073 J
GP-T72-002	LL1	500944.101	2607749.514	4/21/2010	Intermediate	0.2 J
GP-T72-003	LL1	501090.705	2608067.525	4/22/2010	Shallow	1.7
GP-T72-003	LL1	501090.705	2608067.525	4/22/2010	Shallow	ND
GP-T72-003	LL1	501090.705	2608067.525	4/21/2010	Shallow	0.23 J
GP-T72-003	LL1	501090.705	2608067.525	4/21/2010	Intermediate	ND
GP-T72-003	LL1	501090.705	2608067.525	4/21/2010	Intermediate	0.32
GP-T72-003	LL1	501090.705	2608067.525	4/21/2010	Intermediate	0.047 J
GP-T72-003	LL1	501090.705	2608067.525	4/21/2010	Intermediate	ND
GP-T72-004	LL1	501339.419	2608501.282	4/27/2010	Shallow	0.36 J
GP-T72-004	LL1	501339.419	2608501.282	4/27/2010	Shallow	0.21 J
GP-T72-004	LL1	501339.419	2608501.282	4/27/2010	Shallow	0.17 J
GP-T72-004	LL1	501339.419	2608501.282	4/27/2010	Intermediate	1.9
GP-T72-004	LL1	501339.419	2608501.282	4/27/2010	Intermediate	ND
GP-T72-004	LL1	501339.419	2608501.282	4/27/2010	Intermediate	0.11 J
GP-T72-004	LL1	501339.419	2608501.282	4/27/2010	Intermediate	ND
GP-T85-001	LL1	507371.56	2605761.05	12/22/2011	Shallow	0.15 J
GP-T85-001	LL1	507371.56	2605761.05	12/22/2011	Shallow	0.14 J
GP-T85-001	LL1	507371.56	2605761.05	12/22/2011	Shallow	0.19 J
GP-T85-001	LL1	507371.56	2605761.05	12/22/2011	Shallow	0.086 J
GP-T85-001	LL1	507371.56	2605761.05	12/22/2011	Shallow	ND
GP-T85-001	LL1	507371.56	2605761.05	12/22/2011	Intermediate	0.087 J
GP-T85-001	LL1	507371.56	2605761.05	12/22/2011	Intermediate	ND
GP-T85-001	LL1	507371.56	2605761.05	12/22/2011	Intermediate	0.13 J
GP-T85-001	LL1	507371.56	2605761.05	12/22/2011	Intermediate	ND
GP-T85-001	LL1	507371.56	2605761.05	12/22/2011	Intermediate	ND
GP-T85-001	LL1	507371.56	2605761.05	12/22/2011	Intermediate	0.14 J

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T85-002	LL1	506980.51	2605797.54	12/20/2011	Shallow	0.16 J
GP-T85-002	LL1	506980.51	2605797.54	12/20/2011	Shallow	0.078 J
GP-T85-002	LL1	506980.51	2605797.54	12/20/2011	Shallow	0.22 J
GP-T85-002	LL1	506980.51	2605797.54	12/20/2011	Shallow	0.54
GP-T85-002	LL1	506980.51	2605797.54	12/20/2011	Shallow	0.066 J
GP-T85-002	LL1	506980.51	2605797.54	12/20/2011	Intermediate	0.092 J
GP-T85-002	LL1	506980.51	2605797.54	12/20/2011	Intermediate	ND
GP-T85-002	LL1	506980.51	2605797.54	12/20/2011	Intermediate	ND
GP-T85-002	LL1	506980.51	2605797.54	12/20/2011	Intermediate	ND
GP-T85-002	LL1	506980.51	2605797.54	12/20/2011	Intermediate	ND
GP-T85-002	LL1	506980.51	2605797.54	12/20/2011	Intermediate	ND
GP-T85-002	LL1	506980.51	2605797.54	12/20/2011	Intermediate	0.11 J
GP-T85-003	LL1	506647.77	2606067.74	12/20/2011	Shallow	0.38 J
GP-T85-003	LL1	506647.77	2606067.74	12/20/2011	Shallow	0.36 J
GP-T85-003	LL1	506647.77	2606067.74	12/20/2011	Shallow	0.44
GP-T85-003	LL1	506647.77	2606067.74	12/20/2011	Intermediate	0.23 J
GP-T85-003	LL1	506647.77	2606067.74	12/20/2011	Intermediate	0.23 J
GP-T85-003	LL1	506647.77	2606067.74	12/20/2011	Intermediate	0.12 J
GP-T85-003	LL1	506647.77	2606067.74	12/20/2011	Intermediate	0.056 J
GP-T85-003	LL1	506647.77	2606067.74	12/20/2011	Intermediate	0.24 J
GP-T85-003	LL1	506647.77	2606067.74	12/20/2011	Intermediate	0.12 J
GP-T85-004	LL1	506259.14	2605983.5	12/20/2011	Shallow	0.93
GP-T85-004	LL1	506259.14	2605983.5	12/20/2011	Shallow	0.6
GP-T85-004	LL1	506259.14	2605983.5	12/20/2011	Shallow	0.2 J
GP-T85-004	LL1	506259.14	2605983.5	12/20/2011	Shallow	0.12 J
GP-T85-004	LL1	506259.14	2605983.5	12/20/2011	Intermediate	0.095 J
GP-T85-004	LL1	506259.14	2605983.5	12/20/2011	Intermediate	0.21 J
GP-T85-004	LL1	506259.14	2605983.5	12/20/2011	Intermediate	ND
GP-T85-004	LL1	506259.14	2605983.5	12/20/2011	Intermediate	0.064 J
GP-T85-004	LL1	506259.14	2605983.5	12/19/2011	Intermediate	ND
GP-T85-004	LL1	506259.14	2605983.5	12/19/2011	Intermediate	ND
GP-T85-004	LL1	506259.14	2605983.5	12/19/2011	Intermediate	ND
GP-T85-004	LL1	506259.14	2605983.5	12/19/2011	Intermediate	0.1 J
GP-T85-005	LL1	505468.05	2606500.19	12/21/2011	Shallow	0.66
GP-T85-005	LL1	505468.05	2606500.19	12/21/2011	Shallow	0.29 J
GP-T85-005	LL1	505468.05	2606500.19	12/21/2011	Shallow	0.082 J
GP-T85-005	LL1	505468.05	2606500.19	12/21/2011	Shallow	0.13 J
GP-T85-005	LL1	505468.05	2606500.19	12/21/2011	Shallow	0.12 J
GP-T85-005	LL1	505468.05	2606500.19	12/21/2011	Intermediate	ND
GP-T85-005	LL1	505468.05	2606500.19	12/21/2011	Intermediate	0.05 J
GP-T85-005	LL1	505468.05	2606500.19	12/21/2011	Intermediate	0.056 J
GP-T85-005	LL1	505468.05	2606500.19	12/21/2011	Intermediate	0.096 J
GP-T85-005	LL1	505468.05	2606500.19	12/21/2011	Intermediate	0.12 J
GP-T85-005	LL1	505468.05	2606500.19	12/21/2011	Intermediate	0.51
GP-T85-006	LL1	505584.2	2606649.18	12/22/2011	Shallow	1
GP-T85-006	LL1	505584.2	2606649.18	12/22/2011	Shallow	1.1
GP-T85-006	LL1	505584.2	2606649.18	12/22/2011	Shallow	1.2

Table 3-1
RDX in Monitoring Wells and Direct-Push Samples (2008-2012)
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Former NOP, Mead, Nebraska

Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T85-006	LL1	505584.2	2606649.18	12/22/2011	Shallow	4.6
GP-T85-006	LL1	505584.2	2606649.18	12/22/2011	Shallow	11
GP-T85-006	LL1	505584.2	2606649.18	12/22/2011	Shallow	15
GP-T85-006	LL1	505584.2	2606649.18	12/21/2011	Intermediate	0.23 J
GP-T85-006	LL1	505584.2	2606649.18	12/21/2011	Intermediate	ND
GP-T85-006	LL1	505584.2	2606649.18	12/21/2011	Intermediate	0.21 J
GP-T85-006	LL1	505584.2	2606649.18	12/21/2011	Intermediate	0.062 J
GP-T85-006	LL1	505584.2	2606649.18	12/21/2011	Intermediate	0.13 J
GP-T85-006	LL1	505584.2	2606649.18	12/21/2011	Intermediate	0.074 J
GP-T85-007	LL1	505729.94	2606848.41	1/5/2012	Shallow	0.61
GP-T85-007	LL1	505729.94	2606848.41	1/5/2012	Shallow	0.15 J
GP-T85-007	LL1	505729.94	2606848.41	1/5/2012	Shallow	0.5
GP-T85-007	LL1	505729.94	2606848.41	1/5/2012	Shallow	0.13 J
GP-T85-007	LL1	505729.94	2606848.41	1/5/2012	Shallow	0.16 J
GP-T85-007	LL1	505729.94	2606848.41	1/5/2012	Intermediate	0.21 J
GP-T85-007	LL1	505729.94	2606848.41	1/5/2012	Intermediate	0.22 J
GP-T85-007	LL1	505729.94	2606848.41	1/5/2012	Intermediate	0.25 J
GP-T85-007	LL1	505729.94	2606848.41	1/5/2012	Intermediate	0.053 J
GP-T85-007	LL1	505729.94	2606848.41	1/5/2012	Intermediate	0.054 J
GP-T85-007	LL1	505729.94	2606848.41	1/5/2012	Intermediate	0.1 J
GP-T85-007	LL1	505729.94	2606848.41	1/5/2012	Intermediate	0.24 J
GP-T86-001	LL1	500605.2	2608924.89	1/10/2012	Shallow	0.08 J
GP-T86-001	LL1	500605.2	2608924.89	1/10/2012	Shallow	0.098 J
GP-T86-001	LL1	500605.2	2608924.89	1/10/2012	Shallow	0.074 J
GP-T86-001	LL1	500605.2	2608924.89	1/10/2012	Shallow	0.43 J
GP-T86-001	LL1	500605.2	2608924.89	1/10/2012	Intermediate	0.29 J
GP-T86-001	LL1	500605.2	2608924.89	1/10/2012	Intermediate	0.66
GP-T86-001	LL1	500605.2	2608924.89	1/10/2012	Intermediate	0.12 J
GP-T86-001	LL1	500605.2	2608924.89	1/10/2012	Intermediate	0.23 J
GP-T86-001	LL1	500605.2	2608924.89	1/10/2012	Intermediate	0.36 J
GP-T86-002	LL1	500610.57	2609098	1/9/2012	Shallow	1.6
GP-T86-002	LL1	500610.57	2609098	1/9/2012	Shallow	ND
GP-T86-002	LL1	500610.57	2609098	1/9/2012	Shallow	6.9
GP-T86-002	LL1	500610.57	2609098	1/9/2012	Intermediate	ND
GP-T86-002	LL1	500610.57	2609098	1/9/2012	Intermediate	ND
GP-T86-002	LL1	500610.57	2609098	1/9/2012	Intermediate	ND
GP-T86-002	LL1	500610.57	2609098	1/9/2012	Intermediate	ND
GP-T86-002	LL1	500610.57	2609098	1/9/2012	Intermediate	ND
GP-T86-002	LL1	500610.57	2609098	1/9/2012	Intermediate	ND
GP-T86-002	LL1	500610.57	2609098	1/9/2012	Intermediate	ND
GP-T86-003	LL1	500616.53	2609222.6	1/9/2012	Shallow	10
GP-T86-003	LL1	500616.53	2609222.6	1/9/2012	Shallow	6.8
GP-T86-003	LL1	500616.53	2609222.6	1/9/2012	Shallow	1.1
GP-T86-003	LL1	500616.53	2609222.6	1/9/2012	Shallow	11
GP-T86-003	LL1	500616.53	2609222.6	1/9/2012	Intermediate	13
GP-T86-003	LL1	500616.53	2609222.6	1/9/2012	Intermediate	9.9
GP-T86-003	LL1	500616.53	2609222.6	1/9/2012	Intermediate	ND

Table 3-1
RDX in Monitoring Wells and Direct-Push Samples (2008-2012)
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T86-003	LL1	500616.53	2609222.6	1/9/2012	Intermediate	ND
GP-T86-003	LL1	500616.53	2609222.6	1/9/2012	Intermediate	0.07 J
GP-T86-003	LL1	500616.53	2609222.6	1/7/2012	Intermediate	ND
GP-T86-003	LL1	500616.53	2609222.6	1/7/2012	Intermediate	0.053 J
GP-T86-004	LL1	500634.44	2609370.73	11/10/2011	Shallow	ND
GP-T86-004	LL1	500634.44	2609370.73	11/10/2011	Shallow	0.06 J
GP-T86-004	LL1	500634.44	2609370.73	11/10/2011	Shallow	3.6
GP-T86-004	LL1	500634.44	2609370.73	11/10/2011	Intermediate	0.085 J
GP-T86-004	LL1	500634.44	2609370.73	11/10/2011	Intermediate	4.9
GP-T86-004	LL1	500634.44	2609370.73	11/10/2011	Intermediate	0.031 J
GP-T86-004	LL1	500634.44	2609370.73	11/10/2011	Intermediate	ND
GP-T86-004	LL1	500634.44	2609370.73	11/10/2011	Intermediate	ND
GP-T86-004	LL1	500634.44	2609370.73	11/10/2011	Intermediate	0.11 J
GP-T86-005	LL1	500649.96	2609660.85	11/10/2011	Shallow	0.48
GP-T86-005	LL1	500649.96	2609660.85	11/10/2011	Shallow	0.052 J
GP-T86-005	LL1	500649.96	2609660.85	11/10/2011	Intermediate	0.043 J
GP-T86-005	LL1	500649.96	2609660.85	11/10/2011	Intermediate	0.17 J
GP-T86-005	LL1	500649.96	2609660.85	11/10/2011	Intermediate	1.8
GP-T86-005	LL1	500649.96	2609660.85	11/9/2011	Intermediate	0.27 J
GP-T86-005	LL1	500649.96	2609660.85	11/9/2011	Intermediate	1.6 J
GP-T86-005	LL1	500649.96	2609660.85	11/9/2011	Intermediate	0.085 J
GP-T86-006	LL1	500300.77	2609173.7	1/7/2012	Shallow	2
GP-T86-006	LL1	500300.77	2609173.7	1/7/2012	Shallow	0.16 J
GP-T86-006	LL1	500300.77	2609173.7	1/7/2012	Shallow	4
GP-T86-006	LL1	500300.77	2609173.7	1/7/2012	Shallow	0.84
GP-T86-006	LL1	500300.77	2609173.7	1/7/2012	Intermediate	0.052 J
GP-T86-006	LL1	500300.77	2609173.7	1/7/2012	Intermediate	0.082 J
GP-T86-006	LL1	500300.77	2609173.7	1/7/2012	Intermediate	0.069 J
GP-T86-006	LL1	500300.77	2609173.7	1/7/2012	Intermediate	ND
GP-T86-006	LL1	500300.77	2609173.7	1/7/2012	Intermediate	0.1 J
GP-T86-006	LL1	500300.77	2609173.7	1/7/2012	Intermediate	0.089 J
GP-T86-006	LL1	500300.77	2609173.7	1/7/2012	Intermediate	0.29 J
GP-T86-007	LL1	500300.23	2609302.64	1/6/2012	Shallow	0.28 J
GP-T86-007	LL1	500300.23	2609302.64	1/6/2012	Shallow	0.27 J
GP-T86-007	LL1	500300.23	2609302.64	1/6/2012	Shallow	4.9
GP-T86-007	LL1	500300.23	2609302.64	1/6/2012	Shallow	11
GP-T86-007	LL1	500300.23	2609302.64	1/6/2012	Intermediate	1.6
GP-T86-007	LL1	500300.23	2609302.64	1/6/2012	Intermediate	0.22 J
GP-T86-007	LL1	500300.23	2609302.64	1/6/2012	Intermediate	0.3 J
GP-T86-007	LL1	500300.23	2609302.64	1/6/2012	Intermediate	0.27 J
GP-T86-007	LL1	500300.23	2609302.64	1/6/2012	Intermediate	ND
GP-T86-007	LL1	500300.23	2609302.64	1/6/2012	Intermediate	0.11 J
GP-T86-007	LL1	500300.23	2609302.64	1/6/2012	Intermediate	0.92
GP-T87-001	LL1	499634.25	2609211.65	1/11/2012	Shallow	0.15 J
GP-T87-001	LL1	499634.25	2609211.65	1/11/2012	Shallow	0.37 J
GP-T87-001	LL1	499634.25	2609211.65	1/11/2012	Shallow	5.2
GP-T87-001	LL1	499634.25	2609211.65	1/11/2012	Shallow	0.7

Table 3-1
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T87-001	LL1	499634.25	2609211.65	1/10/2012	Intermediate	1.6
GP-T87-001	LL1	499634.25	2609211.65	1/10/2012	Intermediate	2.1 J
GP-T87-001	LL1	499634.25	2609211.65	1/10/2012	Intermediate	0.64
GP-T87-001	LL1	499634.25	2609211.65	1/10/2012	Intermediate	0.25 J
GP-T87-001	LL1	499634.25	2609211.65	1/10/2012	Intermediate	0.36 J
GP-T87-002	LL1	499634.2	2609585.33	1/30/2012	Shallow	0.12 J
GP-T87-002	LL1	499634.2	2609585.33	1/30/2012	Shallow	0.14 J
GP-T87-002	LL1	499634.2	2609585.33	1/30/2012	Shallow	3.3
GP-T87-002	LL1	499634.2	2609585.33	1/30/2012	Intermediate	0.25 J
GP-T87-002	LL1	499634.2	2609585.33	1/30/2012	Intermediate	0.15 J
GP-T87-002	LL1	499634.2	2609585.33	1/30/2012	Intermediate	0.074 J
GP-T87-002	LL1	499634.2	2609585.33	1/30/2012	Intermediate	0.074 J
GP-T87-002	LL1	499634.2	2609585.33	1/30/2012	Intermediate	0.082 J
GP-T87-002	LL1	499634.2	2609585.33	1/30/2012	Intermediate	0.092 J
GP-T87-002	LL1	499634.2	2609585.33	1/30/2012	Intermediate	0.081 J
GP-T87-002	LL1	499634.2	2609585.33	1/30/2012	Intermediate	0.2 J
GP-T87-003	LL1	499067.01	2609264.44	1/30/2012	Shallow	ND
GP-T87-003	LL1	499067.01	2609264.44	1/30/2012	Shallow	1.7
GP-T87-003	LL1	499067.01	2609264.44	1/30/2012	Shallow	1.4
GP-T87-003	LL1	499067.01	2609264.44	1/11/2012	Intermediate	0.39 J
GP-T87-003	LL1	499067.01	2609264.44	1/11/2012	Intermediate	1.1
GP-T87-003	LL1	499067.01	2609264.44	1/11/2012	Intermediate	2.2
GP-T87-003	LL1	499067.01	2609264.44	1/11/2012	Intermediate	1.4
GP-T87-003	LL1	499067.01	2609264.44	1/11/2012	Intermediate	1
GP-T87-003	LL1	499067.01	2609264.44	1/11/2012	Intermediate	ND
GP-T87-003	LL1	499067.01	2609264.44	1/11/2012	Intermediate	0.54
GP-T87-004	LL1	499068.89	2609630.53	1/31/2012	Shallow	0.47
GP-T87-004	LL1	499068.89	2609630.53	1/31/2012	Shallow	0.094 J
GP-T87-004	LL1	499068.89	2609630.53	1/31/2012	Intermediate	0.093 J
GP-T87-004	LL1	499068.89	2609630.53	1/31/2012	Intermediate	0.071 J
GP-T87-004	LL1	499068.89	2609630.53	1/31/2012	Intermediate	0.055 J
GP-T87-004	LL1	499068.89	2609630.53	1/31/2012	Intermediate	0.057 J
GP-T87-004	LL1	499068.89	2609630.53	1/31/2012	Intermediate	ND
GP-T87-004	LL1	499068.89	2609630.53	1/31/2012	Intermediate	0.56
GP-T87-004	LL1	499068.89	2609630.53	1/31/2012	Intermediate	0.63
GP-T87-005	LL1	498710.79	2609401.67	1/31/2012	Shallow	0.049 J
GP-T87-005	LL1	498710.79	2609401.67	1/31/2012	Shallow	0.12 J
GP-T87-005	LL1	498710.79	2609401.67	1/31/2012	Intermediate	0.41
GP-T87-005	LL1	498710.79	2609401.67	1/31/2012	Intermediate	0.2 J
GP-T87-005	LL1	498710.79	2609401.67	1/31/2012	Intermediate	0.068 J
GP-T87-005	LL1	498710.79	2609401.67	1/31/2012	Intermediate	0.56
GP-T87-005	LL1	498710.79	2609401.67	1/31/2012	Intermediate	0.064 J
GP-T87-005	LL1	498710.79	2609401.67	1/31/2012	Intermediate	0.058 J
MW-02A	LL1	506250.32	2606800.1	5/24/2012	Intermediate	ND
MW-02B	LL1	506255.48	2606808.89	5/24/2012	Shallow	2.3
MW-03A	LL1	506223.41	2607532.26	5/24/2012	Intermediate	4.6
MW-03B	LL1	506225.42	2607542.05	5/24/2012	Shallow	1.4

Table 3-1
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
MW-101A	LL1	491574.11	2610929.39	3/7/2012	Intermediate	ND
MW-101B	LL1	491573.81	2610923.62	3/7/2012	Shallow	ND
MW-101D	LL1	491574.48	2610935.3	3/7/2012	Intermediate	ND
MW-10A	LL1	496858.26	2607883.83	6/8/2012	Intermediate	0.071 J
MW-10B	LL1	496858.92	2607893.73	6/8/2012	Shallow	ND
MW-119A	LL1	499580.81	2607952.6	6/4/2012	Intermediate	ND
MW-119B	LL1	499593.34	2607941.55	6/4/2012	Shallow	0.12 J
MW-120A	LL1	499419.07	2609372.3	6/4/2012	Intermediate	ND
MW-120B	LL1	499438.96	2609372.69	6/4/2012	Shallow	8.6
MW-120D	LL1	499409.46	2609371.09	8/24/2012	Intermediate	13 J
MW-120E	LL1	499430.79	2609372.68	8/24/2012	Intermediate	7.3
MW-121A	LL1	500071.01	2609752.78	5/30/2012	Intermediate	ND
MW-121B	LL1	500071.58	2609779.25	5/30/2012	Shallow	ND
MW-121E	LL1	500071.28	2609763.3	5/30/2012	Intermediate	ND
MW-122A	LL1	498101.34	2609240.41	6/4/2012	Intermediate	ND
MW-122A	LL1	498101.34	2609240.41	6/4/2012	Intermediate	ND
MW-122B	LL1	498114.6	2609232.28	6/4/2012	Shallow	0.92
MW-123A	LL1	499909.06	2608677.91	6/4/2012	Intermediate	ND
MW-123B	LL1	499909.02	2608666	6/4/2012	Shallow	0.3 J
MW-124A	LL1	501486.16	2609115.81	5/30/2012	Intermediate	0.65
MW-124B	LL1	501496.31	2609107.78	5/30/2012	Shallow	42
MW-124B	LL1	501496.31	2609107.78	5/30/2012	Shallow	57
MW-124D	LL1	501475.68	2609125.65	5/30/2012	Intermediate	ND
MW-125A	LL1	500663.23	2609457.05	6/4/2012	Intermediate	ND
MW-125B	LL1	500661.63	2609468.11	6/4/2012	Shallow	7.7
MW-125B	LL1	500661.63	2609468.11	6/4/2012	Shallow	7.9
MW-125D	LL1	500664.74	2609446.3	6/4/2012	Intermediate	ND
MW-126A	LL1	504504.81	2607483.63	6/4/2012	Intermediate	ND
MW-126B	LL1	504514.65	2607482.55	6/4/2012	Shallow	14
MW-126D	LL1	504494.76	2607483.02	6/4/2012	Intermediate	ND
MW-127A	LL1	506918.35	2606121.55	5/24/2012	Intermediate	0.1 J
MW-127B	LL1	506931.42	2606121.65	5/24/2012	Shallow	0.27 J
MW-127E	LL1	506941.6	2606121.3	5/24/2012	Intermediate	10 J
MW-141A	LL1	502590.64	2608446.6	6/4/2012	Intermediate	0.43
MW-141B	LL1	502597.16	2608446.5	6/4/2012	Shallow	41
MW-141E	LL1	502604.35	2608446.5	6/4/2012	Intermediate	15
MW-141E	LL1	502604.35	2608446.5	6/4/2012	Intermediate	15
MW-142A	LL1	495594.89	2610572.95	3/1/2012	Intermediate	0.55
MW-142E	LL1	495595.1	2610572.94	3/1/2012	Intermediate	1.6 J
MW-142E	LL1	495595.1	2610572.94	3/1/2012	Intermediate	1.2
MW-160A	LL1	496947.488	2609501.293	12/06/2012	Intermediate	1.6
MW-160B	LL1	496954.303	2609505.064	12/06/2012	Shallow	0.59
MW-161A	LL1	503133.216	2608418.557	12/06/2012	Intermediate	ND
MW-161B	LL1	503123.84	2608419.67	12/06/2012	Shallow	7.4
MW-21A	LL1	503524.8	2607121.36	8/24/2012	Intermediate	ND
MW-21A	LL1	503524.8	2607121.36	8/24/2012	Intermediate	ND
MW-21D	LL1	503525.82	2607131.4	8/24/2012	Intermediate	ND

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
MW-22A	LL1	510402.06	2606598.39	9/27/2007	Intermediate	ND
MW-22B (Abandoned)	LL1	510403.43	2606604.48	9/27/2007	Shallow	ND
MW-23A	LL1	509376.37	2606402.57	9/27/2007	Intermediate	ND
MW-23B	LL1	509383.86	2606393.05	9/27/2007	Shallow	ND
MW-24A	LL1	501919.83	2608476.89	8/24/2012	Intermediate	ND
MW-24B	LL1	501909.01	2608477.73	8/24/2012	Shallow	16
MW-25A	LL1	504875.16	2608308.4	5/24/2012	Intermediate	ND
MW-25B	LL1	504885.57	2608308.27	5/24/2012	Shallow	ND
MW-25D	LL1	504864.76	2608308.83	5/24/2012	Intermediate	ND
MW-26A	LL1	508825.08	2609860.44	7/1/2010	Intermediate	ND
MW-26B	LL1	508824.87	2609849.89	7/1/2010	Shallow	ND
MW-61A	LL1	492900.04	2608656.02	3/7/2012	Intermediate	ND
MW-61B	LL1	492898.59	2608644.38	3/7/2012	Shallow	ND
MW-61D	LL1	492901.85	2608667.92	3/7/2012	Intermediate	ND
MW-79A (Abandoned)	LL1	492336.2	2610432.13	12/4/2006	Intermediate	ND
MW-79B (Abandoned)	LL1	492345.18	2610428.13	12/4/2006	Shallow	ND
MW-80A	LL1	492067.12	2610925.53	8/22/2012	Intermediate	ND
MW-80B	LL1	492064.59	2610916.24	8/22/2012	Shallow	ND
MW-80D	LL1	492068.65	2610935.54	8/22/2012	Intermediate	ND
MW-81A (Abandoned)	LL1	492369.38	2611637.99	8/22/2012	Intermediate	ND
MW-81B (Abandoned)	LL1	492360.36	2611635.91	8/22/2012	Shallow	ND
MW-81D (Abandoned)	LL1	492349.85	2611633.37	8/22/2012	Intermediate	ND
MW-89A	LL1	494253.87	2610430.84	3/8/2007	Intermediate	ND
MW-89B	LL1	494254.09	2610408.68	3/8/2007	Shallow	ND
MW-89E	LL1	494253.06	2610466.38	6/7/2012	Intermediate	0.16 J
MW-90A	LL1	494302.03	2611235.53	3/1/2012	Intermediate	0.48
MW-90B	LL1	494297.96	2611226.6	3/1/2012	Shallow	0.32 J
MW-90D	LL1	494306.05	2611244.85	3/1/2012	Intermediate	0.4 J
MW-91A	LL1	494322.99	2612076.97	3/9/2007	Intermediate	ND
MW-91B	LL1	494317.52	2612067.84	3/9/2007	Shallow	ND
MW-92A (Abandoned)	LL1	492722.58	2610047.26	3/13/2007	Intermediate	ND
MW-92B (Abandoned)	LL1	492733.82	2610047.79	3/13/2007	Shallow	ND
MW-93A	LL1	493551.29	2612162.88	3/13/2007	Intermediate	ND
MW-93B	LL1	493546.79	2612154.06	3/14/2007	Shallow	ND
BAZE-EW-01	LL2	502126.71	2616100.04	10/24/2012	Shallow	23
BAZE-MW-01	LL2	502209.12	2616042.51	6/8/2012	Shallow	79
BAZE-MW-03	LL2	502084.64	2616128.6	3/4/2010	Shallow	48
BAZE-MW-03	LL2	502084.64	2616128.6	3/4/2010	Shallow	82
BAZE-MW-03	LL2	502084.64	2616128.6	3/4/2010	Shallow	78
BAZE-MW-05	LL2	502038.02	2616145.21	12/12/2012	Shallow	98
BAZE-MW-05	LL2	502038.02	2616145.21	12/12/2012	Shallow	96
BAZE-MW-05	LL2	502038.02	2616145.21	12/12/2012	Shallow	97
BAZE-MW-06	LL2	502044.01	2616157.12	10/23/2012	Shallow	85
BAZE-MW-06	LL2	502044.01	2616157.12	12/11/2012	Shallow	53
BAZE-MW-06	LL2	502044.01	2616157.12	12/11/2012	Shallow	56
BAZE-MW-06	LL2	502044.01	2616157.12	12/11/2012	Shallow	55
BAZE-MW-08	LL2	501950.72	2616202.28	10/23/2012	Shallow	100

Table 3-1
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
BAZE-MW-09	LL2	501959.61	2616214.12	10/22/2012	Shallow	120
BAZE-MW-11	LL2	501626.78	2616437.04	3/3/2010	Shallow	53
BAZE-MW-11	LL2	501626.78	2616437.04	4/19/2010	Shallow	45
BAZE-MW-11	LL2	501626.78	2616437.04	3/3/2010	Shallow	55
GP-130	LL2	496650.27	2629053.38	2/12/2009	Shallow	2
GP-130	LL2	496650.27	2629053.38	2/12/2009	Shallow	0.13 J
GP-130	LL2	496650.27	2629053.38	2/12/2009	Intermediate	2.1
GP-130	LL2	496650.27	2629053.38	2/12/2009	Intermediate	1.5
GP-131	LL2	497675	2628329	2/11/2009	Shallow	0.51
GP-131	LL2	497675	2628329	2/11/2009	Shallow	2.6
GP-131	LL2	497675	2628329	2/11/2009	Intermediate	2.2
GP-131	LL2	497675	2628329	2/11/2009	Intermediate	2.4
GP-131	LL2	497675	2628329	2/11/2009	Intermediate	3.3
GP-MW-129	LL2	496536.62	2627759.96	2/12/2009	Shallow	ND
GP-MW-129	LL2	496536.62	2627759.96	2/12/2009	Shallow	RDX
GP-MW-129	LL2	496536.62	2627759.96	2/12/2009	Intermediate	RDX
GP-MW-129	LL2	496536.62	2627759.96	2/12/2009	Intermediate	RDX
GP-MW-144	LL2	504219.095	2614425.592	6/23/2010	Shallow	0.044 J
GP-MW-144	LL2	504219.095	2614425.592	6/23/2010	Shallow	0.055 J
GP-MW-144	LL2	504219.095	2614425.592	6/23/2010	Shallow	1.1
GP-MW-144	LL2	504219.095	2614425.592	6/23/2010	Intermediate	27
GP-MW-144	LL2	504219.095	2614425.592	6/23/2010	Intermediate	0.22
GP-MW-144	LL2	504219.095	2614425.592	6/23/2010	Intermediate	9
GP-MW-144	LL2	504219.095	2614425.592	6/23/2010	Intermediate	0.49
GP-MW-146	LL2	495349.499	2618922.972	6/16/2010	Shallow	0.072 J
GP-MW-146	LL2	495349.499	2618922.972	6/16/2010	Shallow	0.17 J
GP-MW-146	LL2	495349.499	2618922.972	6/16/2010	Shallow	0.14 J
GP-MW-146	LL2	495349.499	2618922.972	6/16/2010	Shallow	0.15 J
GP-MW-146	LL2	495349.499	2618922.972	6/16/2010	Intermediate	ND
GP-MW-146	LL2	495349.499	2618922.972	6/15/2010	Intermediate	ND
GP-MW-147	LL2	494876.817	2620075.302	6/17/2010	Shallow	ND
GP-MW-147	LL2	494876.817	2620075.302	6/17/2010	Shallow	ND
GP-MW-147	LL2	494876.817	2620075.302	6/16/2010	Shallow	ND
GP-MW-147	LL2	494876.817	2620075.302	6/16/2010	Intermediate	ND
GP-MW-147	LL2	494876.817	2620075.302	6/16/2010	Intermediate	ND
GP-MW-147	LL2	494876.817	2620075.302	6/16/2010	Intermediate	ND
GP-MW-163B	LL2	498952.862	2618961.892	10/16/2012	Shallow	ND
GP-MW-163B	LL2	498952.862	2618961.892	10/16/2012	Shallow	ND
GP-MW-163B	LL2	498952.862	2618961.892	10/16/2012	Shallow	1.3
GP-MW-163B	LL2	498952.862	2618961.892	10/16/2012	Shallow	1.1
GP-MW-163B	LL2	498952.862	2618961.892	10/16/2012	Intermediate	0.10 J
GP-MW-163B	LL2	498952.862	2618961.892	10/16/2012	Intermediate	0.18 J
GP-MW-163B	LL2	498952.862	2618961.892	10/16/2012	Intermediate	0.17 J
GP-MW-163B	LL2	498952.862	2618961.892	10/16/2012	Intermediate	11
GP-MW-171A	LL2	501881.314	2615668.935	10/16/2012	Shallow	0.48
GP-MW-171A	LL2	501881.314	2615668.935	10/16/2012	Shallow	20
GP-MW-171A	LL2	501881.314	2615668.935	10/16/2012	Shallow	8.6

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-MW-171A	LL2	501881.314	2615668.935	10/16/2012	Shallow	31
GP-MW-171A	LL2	501881.314	2615668.935	10/16/2012	Intermediate	0.27 J
GP-MW-171A	LL2	501881.314	2615668.935	10/16/2012	Intermediate	3.3
GP-MW-171A	LL2	501881.314	2615668.935	10/16/2012	Intermediate	40
GP-MW-181A (MW-174)	LL2	497380.635	2622869.283	10/17/2012	Shallow	0.071 J
GP-MW-181A (MW-174)	LL2	497380.635	2622869.283	10/17/2012	Shallow	0.18 J
GP-MW-181A (MW-174)	LL2	497380.635	2622869.283	10/17/2012	Shallow	0.35 J
GP-MW-181A (MW-174)	LL2	497380.635	2622869.283	10/17/2012	Intermediate	0.14 J
GP-MW-181A (MW-174)	LL2	497380.635	2622869.283	10/17/2012	Intermediate	0.98
GP-MW-181A (MW-174)	LL2	497380.635	2622869.283	10/17/2012	Intermediate	0.13 J
GP-T35-03	LL2	506989.68	2612280.72	5/21/2007	Shallow	ND
GP-T35-03	LL2	506989.68	2612280.72	5/21/2007	Intermediate	ND
GP-T35-04	LL2	507460.6	2612983.48	5/30/2007	Shallow	1
GP-T35-04	LL2	507460.6	2612983.48	5/30/2007	Shallow	1.4
GP-T35-04	LL2	507460.6	2612983.48	5/30/2007	Intermediate	ND
GP-T35-05	LL2	507780.7	2613396.4	5/30/2007	Shallow	ND
GP-T35-05	LL2	507780.7	2613396.4	5/30/2007	Intermediate	1.2
GP-T36-02	LL2	503584.4	2612477.21	5/22/2007	Shallow	ND
GP-T36-02	LL2	503584.4	2612477.21	5/22/2007	Intermediate	ND
GP-T36-03	LL2	504979.87	2613110.21	5/9/2007	Shallow	3.2
GP-T36-03	LL2	504979.87	2613110.21	5/9/2007	Shallow	ND
GP-T36-03	LL2	504979.87	2613110.21	5/8/2007	Shallow	ND
GP-T36-03	LL2	504979.87	2613110.21	5/8/2007	Intermediate	ND
GP-T36-03	LL2	504979.87	2613110.21	5/8/2007	Intermediate	ND
GP-T36-04	LL2	505429	2613501.19	5/21/2007	Shallow	0.9 J
GP-T36-04	LL2	505429	2613501.19	5/21/2007	Intermediate	ND
GP-T36-05	LL2	505640.57	2614239.46	5/21/2007	Shallow	ND
GP-T36-05	LL2	505640.57	2614239.46	5/21/2007	Intermediate	ND
GP-T36-06	LL2	506302.27	2615033.88	5/21/2007	Shallow	ND
GP-T36-06	LL2	506302.27	2615033.88	5/21/2007	Intermediate	ND
GP-T36-07	LL2	503600.61	2613364.02	5/25/2007	Shallow	3.2
GP-T36-07	LL2	503600.61	2613364.02	5/25/2007	Intermediate	ND
GP-T37-01	LL2	501762.21	2612475.22	5/16/2007	Shallow	ND
GP-T37-01	LL2	501762.21	2612475.22	5/16/2007	Intermediate	ND
GP-T37-02	LL2	502259.54	2613629.63	5/16/2007	Shallow	ND
GP-T37-02	LL2	502259.54	2613629.63	5/16/2007	Intermediate	ND
GP-T37-03	LL2	502529.8	2614098.09	5/7/2007	Shallow	ND
GP-T37-03	LL2	502529.8	2614098.09	5/7/2007	Shallow	0.3 J
GP-T37-03	LL2	502529.8	2614098.09	5/7/2007	Intermediate	0.2 J
GP-T37-03	LL2	502529.8	2614098.09	5/7/2007	Intermediate	0.3 J
GP-T37-03	LL2	502529.8	2614098.09	5/7/2007	Intermediate	ND
GP-T37-04	LL2	503088.23	2614343.6	5/31/2007	Shallow	ND
GP-T37-04	LL2	503088.23	2614343.6	5/31/2007	Intermediate	ND
GP-T37-05	LL2	503699.23	2615363.81	5/15/2007	Shallow	ND
GP-T37-05	LL2	503699.23	2615363.81	5/15/2007	Intermediate	ND
GP-T37-06	LL2	504280.01	2615966.7	5/15/2007	Shallow	ND
GP-T37-06	LL2	504280.01	2615966.7	5/15/2007	Intermediate	ND

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T37-07	LL2	503809.58	2617614.79	5/30/2007	Shallow	ND
GP-T37-07	LL2	503809.58	2617614.79	5/30/2007	Intermediate	ND
GP-T37-08	LL2	503132.19	2614920.16	11/17/2007	Shallow	ND
GP-T37-08	LL2	503132.19	2614920.16	11/17/2007	Shallow	ND
GP-T37-08	LL2	503132.19	2614920.16	11/17/2007	Intermediate	ND
GP-T37-08	LL2	503132.19	2614920.16	11/17/2007	Intermediate	ND
GP-T37-09	LL2	503373.84	2615136.13	11/16/2007	Shallow	ND
GP-T37-09	LL2	503373.84	2615136.13	11/16/2007	Shallow	ND
GP-T37-09	LL2	503373.84	2615136.13	11/16/2007	Intermediate	ND
GP-T37-09	LL2	503373.84	2615136.13	11/16/2007	Intermediate	ND
GP-T37-10	LL2	504352.22	2615659.73	11/14/2007	Shallow	ND
GP-T37-10	LL2	504352.22	2615659.73	11/14/2007	Shallow	ND
GP-T37-10	LL2	504352.22	2615659.73	11/14/2007	Intermediate	ND
GP-T37-10	LL2	504352.22	2615659.73	11/14/2007	Intermediate	ND
GP-T37-11	LL2	504350.43	2614925.33	11/16/2007	Shallow	ND
GP-T37-11	LL2	504350.43	2614925.33	11/16/2007	Shallow	ND
GP-T37-11	LL2	504350.43	2614925.33	11/16/2007	Intermediate	ND
GP-T37-11	LL2	504350.43	2614925.33	11/16/2007	Intermediate	ND
GP-T37-12	LL2	503159.57	2615758.31	11/16/2007	Shallow	ND
GP-T37-12	LL2	503159.57	2615758.31	11/16/2007	Shallow	ND
GP-T37-12	LL2	503159.57	2615758.31	11/16/2007	Intermediate	ND
GP-T37-12	LL2	503159.57	2615758.31	11/16/2007	Intermediate	ND
GP-T38-01	LL2	500935.82	2613182.7	5/24/2007	Shallow	10
GP-T38-01	LL2	500935.82	2613182.7	5/24/2007	Intermediate	ND
GP-T38-02	LL2	501409.9	2613665.11	5/25/2007	Shallow	ND
GP-T38-02	LL2	501409.9	2613665.11	5/25/2007	Intermediate	ND
GP-T38-03	LL2	501836.4	2614527.86	5/23/2007	Shallow	ND
GP-T38-03	LL2	501836.4	2614527.86	5/23/2007	Intermediate	7.2 J
GP-T38-03	LL2	501836.4	2614527.86	5/23/2007	Intermediate	ND
GP-T38-04	LL2	501872.18	2615639.04	5/23/2007	Shallow	13
GP-T38-04	LL2	501872.18	2615639.04	5/23/2007	Intermediate	0.5 J
GP-T38-05	LL2	502206.11	2616051.76	5/23/2007	Shallow	60
GP-T38-05	LL2	502206.11	2616051.76	5/23/2007	Intermediate	6.6
GP-T38-06	LL2	502747.71	2616629.67	5/24/2007	Shallow	ND
GP-T38-06	LL2	502747.71	2616629.67	5/24/2007	Intermediate	ND
GP-T38-07	LL2	503205.52	2617226.86	5/15/2007	Shallow	ND
GP-T38-07	LL2	503205.52	2617226.86	5/15/2007	Intermediate	ND
GP-T39-01	LL2	500178.83	2614137.21	5/23/2007	Shallow	ND
GP-T39-01	LL2	500178.83	2614137.21	5/23/2007	Intermediate	ND
GP-T39-02	LL2	500563.62	2615480.77	5/8/2007	Shallow	ND
GP-T39-02	LL2	500563.62	2615480.77	5/8/2007	Shallow	ND
GP-T39-02	LL2	500563.62	2615480.77	5/8/2007	Intermediate	ND
GP-T39-02	LL2	500563.62	2615480.77	5/8/2007	Intermediate	ND
GP-T39-02	LL2	500563.62	2615480.77	5/8/2007	Intermediate	ND
GP-T39-03	LL2	501009.77	2616088.88	5/23/2007	Shallow	31
GP-T39-03	LL2	501009.77	2616088.88	5/23/2007	Intermediate	ND
GP-T39-04	LL2	501467.58	2616610.56	5/8/2007	Shallow	32

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T39-04	LL2	501467.58	2616610.56	5/8/2007	Shallow	49 J
GP-T39-04	LL2	501467.58	2616610.56	5/8/2007	Shallow	3.9 J
GP-T39-04	LL2	501467.58	2616610.56	5/8/2007	Intermediate	ND
GP-T39-04	LL2	501467.58	2616610.56	5/8/2007	Intermediate	ND
GP-T39-04	LL2	501467.58	2616610.56	5/8/2007	Intermediate	ND
GP-T39-05	LL2	501929.5	2617331.96	5/24/2007	Shallow	ND
GP-T39-05	LL2	501929.5	2617331.96	5/24/2007	Intermediate	ND
GP-T40-01	LL2	498855.51	2615325.3	5/23/2007	Shallow	ND
GP-T40-01	LL2	498855.51	2615325.3	5/23/2007	Intermediate	ND
GP-T40-02	LL2	499102.3	2615966.23	5/23/2007	Shallow	ND
GP-T40-02	LL2	499102.3	2615966.23	5/23/2007	Intermediate	ND
GP-T40-03	LL2	499481.32	2616735.61	5/14/2007	Shallow	2.9
GP-T40-03	LL2	499481.32	2616735.61	5/14/2007	Shallow	5.2
GP-T40-03	LL2	499481.32	2616735.61	5/14/2007	Shallow	8.3
GP-T40-03	LL2	499481.32	2616735.61	5/14/2007	Intermediate	ND
GP-T40-03	LL2	499481.32	2616735.61	5/14/2007	Intermediate	ND
GP-T40-04	LL2	499867.89	2617012.14	5/22/2007	Shallow	ND
GP-T40-04	LL2	499867.89	2617012.14	5/22/2007	Intermediate	20 J
GP-T40-05	LL2	500631.53	2617941.08	5/24/2007	Shallow	ND
GP-T40-05	LL2	500631.53	2617941.08	5/24/2007	Intermediate	ND
GP-T40-06	LL2	500876.06	2618881.07	5/22/2007	Shallow	ND
GP-T40-06	LL2	500876.06	2618881.07	5/22/2007	Intermediate	ND
GP-T40-07	LL2	501374.46	2619508.77	5/23/2007	Shallow	ND
GP-T40-07	LL2	501374.46	2619508.77	5/23/2007	Intermediate	ND
GP-T40-08	LL2	501899.98	2620213.14	5/23/2007	Shallow	ND
GP-T40-08	LL2	501899.98	2620213.14	5/23/2007	Shallow	ND
GP-T40-08	LL2	501899.98	2620213.14	5/23/2007	Intermediate	ND
GP-T40-09	LL2	500223.33	2617267.83	11/18/2007	Shallow	ND
GP-T40-09	LL2	500223.33	2617267.83	11/18/2007	Shallow	ND
GP-T40-09	LL2	500223.33	2617267.83	11/18/2007	Intermediate	ND
GP-T40-09	LL2	500223.33	2617267.83	11/18/2007	Intermediate	ND
GP-T40-10	LL2	500622.85	2617511.3	11/18/2007	Shallow	ND
GP-T40-10	LL2	500622.85	2617511.3	11/18/2007	Shallow	ND
GP-T40-10	LL2	500622.85	2617511.3	11/18/2007	Intermediate	ND
GP-T40-10	LL2	500622.85	2617511.3	11/18/2007	Intermediate	110
GP-T40-10	LL2	500622.85	2617511.3	11/18/2007	Intermediate	98
GP-T41-01	LL2	495179.18	2618918.54	5/30/2007	Shallow	ND
GP-T41-01	LL2	495179.18	2618918.54	5/30/2007	Intermediate	ND
GP-T41-02	LL2	495768.48	2619781.46	5/9/2007	Shallow	ND
GP-T41-02	LL2	495768.48	2619781.46	5/9/2007	Shallow	ND
GP-T41-02	LL2	495768.48	2619781.46	5/9/2007	Intermediate	0.3 J
GP-T41-02	LL2	495768.48	2619781.46	5/9/2007	Intermediate	1.5 J
GP-T41-02	LL2	495768.48	2619781.46	5/9/2007	Intermediate	62 J
GP-T41-02	LL2	495768.48	2619781.46	5/9/2007	Intermediate	34
GP-T41-03	LL2	496365.63	2620632.39	5/25/2007	Shallow	ND
GP-T41-03	LL2	496365.63	2620632.39	5/25/2007	Intermediate	ND
GP-T41-04	LL2	496788.94	2621200.72	5/9/2007	Shallow	ND

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T41-04	LL2	496788.94	2621200.72	5/9/2007	Shallow	2.4
GP-T41-04	LL2	496788.94	2621200.72	5/9/2007	Shallow	ND
GP-T41-04	LL2	496788.94	2621200.72	5/9/2007	Intermediate	ND
GP-T41-04	LL2	496788.94	2621200.72	5/9/2007	Intermediate	ND
GP-T41-05	LL2	497352.02	2621875.48	5/25/2007	Shallow	ND
GP-T41-05	LL2	497352.02	2621875.48	5/25/2007	Intermediate	ND
GP-T41-06	LL2	497773.34	2622428.13	5/9/2007	Shallow	ND
GP-T41-06	LL2	497773.34	2622428.13	5/9/2007	Shallow	0.6 J
GP-T41-06	LL2	497773.34	2622428.13	5/9/2007	Intermediate	ND
GP-T41-06	LL2	497773.34	2622428.13	5/9/2007	Intermediate	ND
GP-T41-06	LL2	497773.34	2622428.13	5/9/2007	Intermediate	1.4
GP-T41-07	LL2	498218.59	2623091.33	5/24/2007	Shallow	ND
GP-T41-07	LL2	498218.59	2623091.33	5/24/2007	Intermediate	ND
GP-T41-08	LL2	498644.72	2623785.6	5/24/2007	Shallow	ND
GP-T41-08	LL2	498644.72	2623785.6	5/24/2007	Intermediate	ND
GP-T42-01	LL2	504382.16	2618761.34	5/15/2007	Shallow	ND
GP-T42-01	LL2	504382.16	2618761.34	5/15/2007	Intermediate	ND
GP-T42-02	LL2	505535.87	2618707.45	5/15/2007	Shallow	ND
GP-T42-02	LL2	505535.87	2618707.45	5/15/2007	Intermediate	0.3 J
GP-T42-03	LL2	506036.23	2619516.01	5/15/2007	Shallow	ND
GP-T42-03	LL2	506036.23	2619516.01	5/15/2007	Intermediate	1.8 J
GP-T42-03	LL2	506036.23	2619516.01	5/15/2007	Intermediate	1.2 J
GP-T42-04	LL2	506524.99	2620153.36	5/14/2007	Shallow	ND
GP-T42-04	LL2	506524.99	2620153.36	5/14/2007	Intermediate	ND
GP-T43-01	LL2	502743.1	2619686.24	5/12/2007	Shallow	ND
GP-T43-01	LL2	502743.1	2619686.24	5/12/2007	Intermediate	ND
GP-T43-02	LL2	503311.16	2620188.97	5/12/2007	Shallow	0.5 J
GP-T43-02	LL2	503311.16	2620188.97	5/12/2007	Intermediate	ND
GP-T43-03	LL2	503872.73	2620546.78	5/7/2007	Shallow	2.3
GP-T43-03	LL2	503872.73	2620546.78	5/7/2007	Shallow	14
GP-T43-03	LL2	503872.73	2620546.78	5/7/2007	Intermediate	ND
GP-T43-03	LL2	503872.73	2620546.78	5/7/2007	Intermediate	8.4
GP-T43-03	LL2	503872.73	2620546.78	5/7/2007	Intermediate	ND
GP-T43-04	LL2	504472.3	2621093.75	5/14/2007	Shallow	ND
GP-T43-04	LL2	504472.3	2621093.75	5/14/2007	Intermediate	ND
GP-T43-05	LL2	505241.43	2621454.43	5/14/2007	Shallow	ND
GP-T43-05	LL2	505241.43	2621454.43	5/14/2007	Intermediate	ND
GP-T44-01	LL2	499998.93	2622869.73	5/22/2007	Shallow	ND
GP-T44-01	LL2	499998.93	2622869.73	5/22/2007	Intermediate	0.4 J
GP-T44-02	LL2	500397.48	2623282.13	5/22/2007	Shallow	0.7 J
GP-T44-02	LL2	500397.48	2623282.13	5/22/2007	Intermediate	1.1
GP-T44-03	LL2	501002.17	2623693.65	5/14/2007	Shallow	1.5
GP-T44-03	LL2	501002.17	2623693.65	5/14/2007	Shallow	1.2
GP-T44-03	LL2	501002.17	2623693.65	5/14/2007	Intermediate	6.4
GP-T44-03	LL2	501002.17	2623693.65	5/14/2007	Intermediate	0.8 J
GP-T44-03	LL2	501002.17	2623693.65	5/14/2007	Intermediate	ND
GP-T44-04	LL2	501439.19	2624187.22	5/22/2007	Shallow	ND

Table 3-1
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T44-04	LL2	501439.19	2624187.22	5/22/2007	Intermediate	ND
GP-T44-05	LL2	501703.03	2624796.35	5/22/2007	Shallow	ND
GP-T44-05	LL2	501703.03	2624796.35	5/22/2007	Intermediate	0.8 J
GP-T45-01	LL2	499153.05	2624853.56	5/29/2007	Shallow	ND
GP-T45-01	LL2	499153.05	2624853.56	5/29/2007	Intermediate	6.1
GP-T45-01	LL2	499153.05	2624853.56	5/29/2007	Intermediate	5.9
GP-T45-02	LL2	499747.6	2625373.92	5/11/2007	Shallow	ND
GP-T45-02	LL2	499747.6	2625373.92	5/11/2007	Shallow	ND
GP-T45-02	LL2	499747.6	2625373.92	5/11/2007	Intermediate	ND
GP-T45-02	LL2	499747.6	2625373.92	5/11/2007	Intermediate	3.2
GP-T45-02	LL2	499747.6	2625373.92	5/11/2007	Intermediate	ND
GP-T45-03	LL2	500266.39	2625870.74	5/29/2007	Shallow	ND
GP-T45-03	LL2	500266.39	2625870.74	5/29/2007	Intermediate	ND
GP-T45-04	LL2	500703.12	2626294.06	5/30/2007	Shallow	ND
GP-T45-04	LL2	500703.12	2626294.06	5/30/2007	Intermediate	ND
GP-T45-05	LL2	498093.29	2627666.17	5/11/2007	Shallow	ND
GP-T45-05	LL2	498093.29	2627666.17	5/11/2007	Shallow	ND
GP-T45-05	LL2	498093.29	2627666.17	5/11/2007	Intermediate	1.3
GP-T45-05	LL2	498093.29	2627666.17	5/11/2007	Intermediate	ND
GP-T45-05	LL2	498093.29	2627666.17	5/11/2007	Intermediate	1.6
GP-T45-06	LL2	497911.58	2626373.45	5/11/2007	Shallow	ND
GP-T45-06	LL2	497911.58	2626373.45	5/11/2007	Shallow	ND
GP-T45-06	LL2	497911.58	2626373.45	5/11/2007	Intermediate	0.4 J
GP-T45-06	LL2	497911.58	2626373.45	5/11/2007	Intermediate	ND
GP-T45-06	LL2	497911.58	2626373.45	5/11/2007	Intermediate	ND
GP-T45-07	LL2	497354.63	2626003.12	5/30/2007	Shallow	ND
GP-T45-07	LL2	497354.63	2626003.12	5/30/2007	Intermediate	ND
GP-T45-08	LL2	496505.9	2628235.3	5/30/2007	Shallow	ND
GP-T45-08	LL2	496505.9	2628235.3	5/30/2007	Intermediate	ND
GP-T45-09	LL2	496763.13	2630965.38	5/29/2007	Shallow	ND
GP-T45-09	LL2	496763.13	2630965.38	5/29/2007	Shallow	ND
GP-T45-09	LL2	496763.13	2630965.38	5/29/2007	Shallow	ND
GP-T45-09	LL2	496763.13	2630965.38	5/29/2007	Intermediate	ND
GP-T45-09	LL2	496763.13	2630965.38	5/29/2007	Intermediate	ND
GP-T45-10	LL2	497359.31	2630935.57	5/29/2007	Shallow	ND
GP-T45-10	LL2	497359.31	2630935.57	5/29/2007	Shallow	ND
GP-T45-10	LL2	497359.31	2630935.57	5/29/2007	Shallow	ND
GP-T45-10	LL2	497359.31	2630935.57	5/29/2007	Intermediate	ND
GP-T45-10	LL2	497359.31	2630935.57	5/29/2007	Intermediate	ND
GP-T45-11	LL2	497958.67	2625052.85	11/13/2007	Shallow	ND
GP-T45-11	LL2	497958.67	2625052.85	11/13/2007	Shallow	0.2 J
GP-T45-11	LL2	497958.67	2625052.85	11/13/2007	Shallow	ND
GP-T45-11	LL2	497958.67	2625052.85	11/13/2007	Intermediate	ND
GP-T45-11	LL2	497958.67	2625052.85	11/13/2007	Intermediate	ND
GP-T45-12	LL2	498242.35	2625574.3	11/26/2007	Shallow	ND
GP-T45-12	LL2	498242.35	2625574.3	11/26/2007	Shallow	ND
GP-T45-12	LL2	498242.35	2625574.3	11/26/2007	Intermediate	2.9

Table 3-1
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T45-12	LL2	498242.35	2625574.3	11/26/2007	Intermediate	3.8
GP-T45-12	LL2	498242.35	2625574.3	11/26/2007	Intermediate	2.8
GP-T45-13	LL2	498590.29	2626255.49	11/28/2007	Shallow	1.8
GP-T45-13	LL2	498590.29	2626255.49	11/28/2007	Shallow	ND
GP-T45-13	LL2	498590.29	2626255.49	11/28/2007	Intermediate	4.1
GP-T45-13	LL2	498590.29	2626255.49	11/28/2007	Intermediate	ND
GP-T45-14	LL2	496812.09	2626551.5	11/14/2007	Shallow	ND
GP-T45-14	LL2	496812.09	2626551.5	11/14/2007	Shallow	ND
GP-T45-14	LL2	496812.09	2626551.5	11/14/2007	Intermediate	0.8 J
GP-T45-14	LL2	496812.09	2626551.5	11/14/2007	Intermediate	ND
GP-T45-14	LL2	496812.09	2626551.5	11/14/2007	Intermediate	1.3
GP-T46-02	LL2	500856.38	2612675.02	11/13/2007	Shallow	ND
GP-T46-02	LL2	500856.38	2612675.02	11/13/2007	Shallow	ND
GP-T46-02	LL2	500856.38	2612675.02	11/13/2007	Intermediate	ND
GP-T46-02	LL2	500856.38	2612675.02	11/13/2007	Intermediate	ND
GP-T46-03	LL2	500443.68	2612905.93	11/13/2007	Shallow	ND
GP-T46-03	LL2	500443.68	2612905.93	11/13/2007	Shallow	ND
GP-T46-03	LL2	500443.68	2612905.93	11/13/2007	Intermediate	ND
GP-T46-03	LL2	500443.68	2612905.93	11/13/2007	Intermediate	ND
GP-T46-04	LL2	500462.93	2613180.37	11/28/2007	Shallow	ND
GP-T46-04	LL2	500462.93	2613180.37	11/28/2007	Shallow	ND
GP-T46-04	LL2	500462.93	2613180.37	11/28/2007	Intermediate	ND
GP-T46-04	LL2	500462.93	2613180.37	11/28/2007	Intermediate	ND
GP-T46-05	LL2	500472.93	2613732.95	11/28/2007	Shallow	ND
GP-T46-05	LL2	500472.93	2613732.95	11/28/2007	Shallow	ND
GP-T46-05	LL2	500472.93	2613732.95	11/28/2007	Intermediate	ND
GP-T46-05	LL2	500472.93	2613732.95	11/28/2007	Intermediate	ND
GP-T46-06	LL2	499856.12	2613240.53	11/13/2007	Shallow	ND
GP-T46-06	LL2	499856.12	2613240.53	11/13/2007	Shallow	ND
GP-T46-06	LL2	499856.12	2613240.53	11/13/2007	Intermediate	ND
GP-T46-06	LL2	499856.12	2613240.53	11/13/2007	Intermediate	ND
GP-T46-07	LL2	499866.35	2613765.62	11/28/2007	Shallow	ND
GP-T46-07	LL2	499866.35	2613765.62	11/28/2007	Shallow	ND
GP-T46-07	LL2	499866.35	2613765.62	11/28/2007	Intermediate	ND
GP-T46-07	LL2	499866.35	2613765.62	11/28/2007	Intermediate	8.1
GP-T46-07	LL2	499866.35	2613765.62	11/28/2007	Intermediate	8.7
GP-T46-08	LL2	499417.97	2613755.76	11/26/2007	Shallow	ND
GP-T46-08	LL2	499417.97	2613755.76	11/26/2007	Shallow	ND
GP-T46-08	LL2	499417.97	2613755.76	11/26/2007	Intermediate	0.3 J
GP-T46-08	LL2	499417.97	2613755.76	11/26/2007	Intermediate	1.8
GP-T46-08	LL2	499417.97	2613755.76	11/26/2007	Intermediate	ND
GP-T46-09	LL2	498958.01	2613246.24	11/12/2007	Shallow	ND
GP-T46-09	LL2	498958.01	2613246.24	11/12/2007	Shallow	ND
GP-T46-09	LL2	498958.01	2613246.24	11/12/2007	Intermediate	ND
GP-T46-09	LL2	498958.01	2613246.24	11/12/2007	Intermediate	ND
GP-T46-10	LL2	498932.3	2614221.47	11/20/2007	Shallow	ND
GP-T46-10	LL2	498932.3	2614221.47	11/20/2007	Shallow	ND

Table 3-1
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T46-10	LL2	498932.3	2614221.47	11/20/2007	Intermediate	ND
GP-T46-10	LL2	498932.3	2614221.47	11/20/2007	Intermediate	ND
GP-T46-11	LL2	499108.82	2614699.13	11/12/2007	Shallow	0.4 J
GP-T46-11	LL2	499108.82	2614699.13	11/12/2007	Shallow	ND
GP-T46-11	LL2	499108.82	2614699.13	11/12/2007	Intermediate	ND
GP-T46-11	LL2	499108.82	2614699.13	11/12/2007	Intermediate	ND
GP-T46-12	LL2	498623.91	2614317.9	11/19/2007	Shallow	ND
GP-T46-12	LL2	498623.91	2614317.9	11/19/2007	Shallow	ND
GP-T46-12	LL2	498623.91	2614317.9	11/19/2007	Intermediate	ND
GP-T46-12	LL2	498623.91	2614317.9	11/19/2007	Intermediate	ND
GP-T46-13	LL2	498698.57	2614779.86	11/19/2007	Shallow	ND
GP-T46-13	LL2	498698.57	2614779.86	11/19/2007	Shallow	ND
GP-T46-13	LL2	498698.57	2614779.86	11/19/2007	Intermediate	ND
GP-T46-13	LL2	498698.57	2614779.86	11/19/2007	Intermediate	ND
GP-T46-14	LL2	499616.34	2614197.26	11/27/2007	Shallow	ND
GP-T46-14	LL2	499616.34	2614197.26	11/27/2007	Shallow	ND
GP-T46-14	LL2	499616.34	2614197.26	11/27/2007	Intermediate	ND
GP-T46-14	LL2	499616.34	2614197.26	11/27/2007	Intermediate	ND
GP-T46-15	LL2	498484.04	2613824.03	11/13/2007	Shallow	ND
GP-T46-15	LL2	498484.04	2613824.03	11/13/2007	Shallow	ND
GP-T46-15	LL2	498484.04	2613824.03	11/13/2007	Intermediate	ND
GP-T46-15	LL2	498484.04	2613824.03	11/13/2007	Intermediate	ND
GP-T46-16	LL2	497921.34	2614773.71	11/18/2007	Shallow	ND
GP-T46-16	LL2	497921.34	2614773.71	11/18/2007	Shallow	ND
GP-T46-16	LL2	497921.34	2614773.71	11/18/2007	Intermediate	ND
GP-T46-16	LL2	497921.34	2614773.71	11/18/2007	Intermediate	ND
GP-T46-17	LL2	497395.57	2615004.43	11/13/2007	Shallow	ND
GP-T46-17	LL2	497395.57	2615004.43	11/13/2007	Shallow	ND
GP-T46-17	LL2	497395.57	2615004.43	11/13/2007	Intermediate	ND
GP-T46-17	LL2	497395.57	2615004.43	11/13/2007	Intermediate	ND
GP-T46-18	LL2	500931.02	2613165.83	11/28/2007	Shallow	ND
GP-T46-18	LL2	500931.02	2613165.83	11/28/2007	Shallow	ND
GP-T46-18	LL2	500931.02	2613165.83	11/28/2007	Intermediate	ND
GP-T46-18	LL2	500931.02	2613165.83	11/28/2007	Intermediate	ND
GP-T46-19	LL2	501792.45	2613051.72	11/29/2007	Shallow	1.8
GP-T46-19	LL2	501792.45	2613051.72	11/29/2007	Shallow	2.6
GP-T46-19	LL2	501792.45	2613051.72	11/29/2007	Intermediate	ND
GP-T46-19	LL2	501792.45	2613051.72	11/29/2007	Intermediate	ND
GP-T47-01	LL2	500769.64	2619624.32	11/16/2007	Shallow	ND
GP-T47-01	LL2	500769.64	2619624.32	11/16/2007	Shallow	5.5
GP-T47-01	LL2	500769.64	2619624.32	11/16/2007	Intermediate	ND
GP-T47-01	LL2	500769.64	2619624.32	11/16/2007	Intermediate	ND
GP-T47-02	LL2	501309.98	2620243.86	11/16/2007	Shallow	ND
GP-T47-02	LL2	501309.98	2620243.86	11/16/2007	Shallow	ND
GP-T47-02	LL2	501309.98	2620243.86	11/16/2007	Intermediate	ND
GP-T47-02	LL2	501309.98	2620243.86	11/16/2007	Intermediate	ND
GP-T47-03	LL2	500689.65	2620760.35	11/17/2007	Shallow	ND

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T47-03	LL2	500689.65	2620760.35	11/17/2007	Shallow	ND
GP-T47-03	LL2	500689.65	2620760.35	11/17/2007	Intermediate	ND
GP-T47-03	LL2	500689.65	2620760.35	11/17/2007	Intermediate	ND
GP-T47-04	LL2	500915.64	2620953.87	11/17/2007	Shallow	ND
GP-T47-04	LL2	500915.64	2620953.87	11/17/2007	Shallow	ND
GP-T47-04	LL2	500915.64	2620953.87	11/17/2007	Intermediate	ND
GP-T47-04	LL2	500915.64	2620953.87	11/17/2007	Intermediate	ND
GP-T47-05	LL2	500285.76	2621479.22	11/17/2007	Shallow	ND
GP-T47-05	LL2	500285.76	2621479.22	11/17/2007	Shallow	ND
GP-T47-05	LL2	500285.76	2621479.22	11/17/2007	Intermediate	ND
GP-T47-05	LL2	500285.76	2621479.22	11/17/2007	Intermediate	ND
GP-T47-06	LL2	500050.81	2620292.96	11/15/2007	Shallow	5
GP-T47-06	LL2	500050.81	2620292.96	11/15/2007	Shallow	1.5
GP-T47-06	LL2	500050.81	2620292.96	11/15/2007	Intermediate	1.2
GP-T47-06	LL2	500050.81	2620292.96	11/15/2007	Intermediate	ND
GP-T47-07	LL2	499971.52	2621118.07	11/17/2007	Shallow	4.6
GP-T47-07	LL2	499971.52	2621118.07	11/17/2007	Shallow	2.2
GP-T47-07	LL2	499971.52	2621118.07	11/17/2007	Intermediate	ND
GP-T47-07	LL2	499971.52	2621118.07	11/17/2007	Intermediate	ND
GP-T47-08	LL2	498939.69	2621247.92	11/13/2007	Shallow	ND
GP-T47-08	LL2	498939.69	2621247.92	11/13/2007	Shallow	ND
GP-T47-08	LL2	498939.69	2621247.92	11/13/2007	Intermediate	ND
GP-T47-08	LL2	498939.69	2621247.92	11/13/2007	Intermediate	ND
GP-T47-09	LL2	499012.01	2621642.22	11/13/2007	Shallow	ND
GP-T47-09	LL2	499012.01	2621642.22	11/13/2007	Shallow	ND
GP-T47-09	LL2	499012.01	2621642.22	11/13/2007	Intermediate	ND
GP-T47-09	LL2	499012.01	2621642.22	11/13/2007	Intermediate	2.6
GP-T47-09	LL2	499012.01	2621642.22	11/13/2007	Intermediate	2.5
GP-T47-10	LL2	500797.36	2620025.34	11/16/2007	Shallow	ND
GP-T47-10	LL2	500797.36	2620025.34	11/16/2007	Shallow	ND
GP-T47-10	LL2	500797.36	2620025.34	11/16/2007	Intermediate	ND
GP-T47-10	LL2	500797.36	2620025.34	11/16/2007	Intermediate	0.3 J
GP-T47-11	LL2	500258.58	2619826.56	11/16/2007	Shallow	0.5 J
GP-T47-11	LL2	500258.58	2619826.56	11/16/2007	Shallow	0.9 J
GP-T47-11	LL2	500258.58	2619826.56	11/16/2007	Shallow	ND
GP-T47-11	LL2	500258.58	2619826.56	11/16/2007	Intermediate	ND
GP-T47-11	LL2	500258.58	2619826.56	11/16/2007	Intermediate	ND
GP-T47-12	LL2	500353.3	2620504.75	11/16/2007	Shallow	1.5
GP-T47-12	LL2	500353.3	2620504.75	11/16/2007	Shallow	ND
GP-T47-12	LL2	500353.3	2620504.75	11/16/2007	Intermediate	ND
GP-T47-12	LL2	500353.3	2620504.75	11/16/2007	Intermediate	0.8 J
GP-T47-13	LL2	499436.9	2620821.65	11/18/2007	Shallow	ND
GP-T47-13	LL2	499436.9	2620821.65	11/18/2007	Shallow	ND
GP-T47-13	LL2	499436.9	2620821.65	11/18/2007	Intermediate	ND
GP-T47-13	LL2	499436.9	2620821.65	11/18/2007	Intermediate	ND
GP-T47-14	LL2	499274.64	2621497.09	11/18/2007	Shallow	1
GP-T47-14	LL2	499274.64	2621497.09	11/18/2007	Shallow	2

Table 3-1
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T47-14	LL2	499274.64	2621497.09	11/18/2007	Intermediate	ND
GP-T47-14	LL2	499274.64	2621497.09	11/18/2007	Intermediate	1
GP-T47-15	LL2	499247.69	2621948.87	11/18/2007	Shallow	0.8 J
GP-T47-15	LL2	499247.69	2621948.87	11/18/2007	Shallow	ND
GP-T47-15	LL2	499247.69	2621948.87	11/18/2007	Intermediate	ND
GP-T47-15	LL2	499247.69	2621948.87	11/18/2007	Intermediate	ND
GP-T48-01	LL2	500804.05	2622343	11/15/2007	Shallow	ND
GP-T48-01	LL2	500804.05	2622343	11/15/2007	Shallow	ND
GP-T48-01	LL2	500804.05	2622343	11/15/2007	Intermediate	0.6 J
GP-T48-01	LL2	500804.05	2622343	11/15/2007	Intermediate	ND
GP-T48-02	LL2	501259.56	2622824.58	11/19/2007	Shallow	ND
GP-T48-02	LL2	501259.56	2622824.58	11/19/2007	Shallow	3.3
GP-T48-02	LL2	501259.56	2622824.58	11/19/2007	Intermediate	12
GP-T48-02	LL2	501259.56	2622824.58	11/19/2007	Intermediate	9
GP-T48-02	LL2	501259.56	2622824.58	11/19/2007	Intermediate	ND
GP-T48-03	LL2	501700.88	2623716.39	11/19/2007	Shallow	ND
GP-T48-03	LL2	501700.88	2623716.39	11/19/2007	Shallow	0.9 J
GP-T48-03	LL2	501700.88	2623716.39	11/19/2007	Intermediate	ND
GP-T48-03	LL2	501700.88	2623716.39	11/19/2007	Intermediate	ND
GP-T48-04	LL2	501983.46	2624186.51	11/15/2007	Shallow	ND
GP-T48-04	LL2	501983.46	2624186.51	11/15/2007	Shallow	ND
GP-T48-04	LL2	501983.46	2624186.51	11/15/2007	Intermediate	ND
GP-T48-04	LL2	501983.46	2624186.51	11/15/2007	Intermediate	ND
GP-T49-01	LL2	498873.32	2623178.8	11/14/2007	Shallow	ND
GP-T49-01	LL2	498873.32	2623178.8	11/14/2007	Shallow	ND
GP-T49-01	LL2	498873.32	2623178.8	11/14/2007	Intermediate	1.8 J
GP-T49-01	LL2	498873.32	2623178.8	11/14/2007	Intermediate	0.5 J
GP-T49-02	LL2	499278.69	2623955.79	11/18/2007	Shallow	ND
GP-T49-02	LL2	499278.69	2623955.79	11/18/2007	Shallow	ND
GP-T49-02	LL2	499278.69	2623955.79	11/18/2007	Intermediate	1
GP-T49-02	LL2	499278.69	2623955.79	11/18/2007	Intermediate	ND
GP-T49-03	LL2	499764.68	2624216.55	11/14/2007	Shallow	ND
GP-T49-03	LL2	499764.68	2624216.55	11/14/2007	Shallow	ND
GP-T49-03	LL2	499764.68	2624216.55	11/14/2007	Intermediate	1.9
GP-T49-03	LL2	499764.68	2624216.55	11/14/2007	Intermediate	2.1
GP-T49-03	LL2	499764.68	2624216.55	11/14/2007	Intermediate	ND
GP-T50-01	LL2	495820.13	2618358.34	11/15/2007	Shallow	ND
GP-T50-01	LL2	495820.13	2618358.34	11/15/2007	Shallow	ND
GP-T50-01	LL2	495820.13	2618358.34	11/15/2007	Intermediate	ND
GP-T50-01	LL2	495820.13	2618358.34	11/15/2007	Intermediate	ND
GP-T50-02	LL2	496272.41	2619162.18	11/15/2007	Shallow	ND
GP-T50-02	LL2	496272.41	2619162.18	11/15/2007	Shallow	ND
GP-T50-02	LL2	496272.41	2619162.18	11/15/2007	Intermediate	20
GP-T50-02	LL2	496272.41	2619162.18	11/15/2007	Intermediate	7.2
GP-T50-02	LL2	496272.41	2619162.18	11/15/2007	Intermediate	ND
GP-T50-03	LL2	496669.84	2619838.18	11/15/2007	Shallow	ND
GP-T50-03	LL2	496669.84	2619838.18	11/15/2007	Shallow	ND

Table 3-1
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T50-03	LL2	496669.84	2619838.18	11/15/2007	Intermediate	ND
GP-T50-03	LL2	496669.84	2619838.18	11/15/2007	Intermediate	ND
GP-T50-04	LL2	497272.14	2620376.74	11/16/2007	Shallow	ND
GP-T50-04	LL2	497272.14	2620376.74	11/16/2007	Shallow	ND
GP-T50-04	LL2	497272.14	2620376.74	11/16/2007	Intermediate	2.4
GP-T50-04	LL2	497272.14	2620376.74	11/16/2007	Intermediate	3
GP-T50-04	LL2	497272.14	2620376.74	11/16/2007	Intermediate	ND
GP-T50-05	LL2	497743.21	2620860.2	11/15/2007	Shallow	ND
GP-T50-05	LL2	497743.21	2620860.2	11/15/2007	Shallow	ND
GP-T50-05	LL2	497743.21	2620860.2	11/15/2007	Intermediate	3.9
GP-T50-05	LL2	497743.21	2620860.2	11/15/2007	Intermediate	5.8
GP-T51-01	LL2	502872.63	2618914.03	11/14/2007	Shallow	ND
GP-T51-01	LL2	502872.63	2618914.03	11/14/2007	Shallow	ND
GP-T51-01	LL2	502872.63	2618914.03	11/14/2007	Intermediate	ND
GP-T51-01	LL2	502872.63	2618914.03	11/14/2007	Intermediate	ND
GP-T51-02	LL2	503597.9	2619536.49	11/14/2007	Shallow	ND
GP-T51-02	LL2	503597.9	2619536.49	11/14/2007	Shallow	ND
GP-T51-02	LL2	503597.9	2619536.49	11/14/2007	Intermediate	ND
GP-T51-02	LL2	503597.9	2619536.49	11/14/2007	Intermediate	ND
GP-T51-03	LL2	503780.92	2620353.89	11/20/2007	Shallow	ND
GP-T51-03	LL2	503780.92	2620353.89	11/20/2007	Shallow	ND
GP-T51-03	LL2	503780.92	2620353.89	11/20/2007	Intermediate	ND
GP-T51-03	LL2	503780.92	2620353.89	11/20/2007	Intermediate	ND
GP-T51-04	LL2	503828.2	2621178.67	11/19/2007	Shallow	ND
GP-T51-04	LL2	503828.2	2621178.67	11/19/2007	Shallow	ND
GP-T51-04	LL2	503828.2	2621178.67	11/19/2007	Intermediate	ND
GP-T51-04	LL2	503828.2	2621178.67	11/19/2007	Intermediate	ND
GP-T52-01	LL2	498557.83	2624658.41	5/19/2008	Shallow	1.6
GP-T52-01	LL2	498557.83	2624658.41	5/19/2008	Shallow	1.9
GP-T52-01	LL2	498557.83	2624658.41	5/17/2008	Intermediate	3.7
GP-T52-01	LL2	498557.83	2624658.41	5/16/2008	Intermediate	1.6
GP-T52-01	LL2	498557.83	2624658.41	5/15/2008	Intermediate	0.41
GP-T52-02	LL2	497858.66	2625156.21	5/27/2008	Shallow	0.92
GP-T52-02	LL2	497858.66	2625156.21	5/27/2008	Shallow	3.7
GP-T52-02	LL2	497858.66	2625156.21	5/21/2008	Intermediate	6.3
GP-T52-02	LL2	497858.66	2625156.21	5/20/2008	Intermediate	5.4
GP-T52-03	LL2	497739.83	2626040.53	5/30/2008	Shallow	5.2
GP-T52-03	LL2	497739.83	2626040.53	5/30/2008	Shallow	5.9
GP-T52-03	LL2	497739.83	2626040.53	5/29/2008	Intermediate	3.1
GP-T52-03	LL2	497739.83	2626040.53	5/29/2008	Intermediate	3.9
GP-T52-03	LL2	497739.83	2626040.53	5/29/2008	Intermediate	1.1
GP-T52-04	LL2	498041.1	2624535.78	5/20/2008	Shallow	1.5
GP-T52-04	LL2	498041.1	2624535.78	5/19/2008	Shallow	1.4
GP-T52-04	LL2	498041.1	2624535.78	5/19/2008	Intermediate	3.2
GP-T52-04	LL2	498041.1	2624535.78	5/19/2008	Intermediate	1.9
GP-T52-05	LL2	497648.8	2624848.57	5/28/2008	Shallow	1.3
GP-T52-05	LL2	497648.8	2624848.57	5/27/2008	Shallow	3.4

Table 3-1
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T52-05	LL2	497648.8	2624848.57	5/27/2008	Intermediate	2.4
GP-T52-05	LL2	497648.8	2624848.57	5/21/2008	Intermediate	1.2
GP-T52-06	LL2	497432.19	2625762.39	5/29/2008	Shallow	2
GP-T52-06	LL2	497432.19	2625762.39	5/29/2008	Shallow	6.3
GP-T52-06	LL2	497432.19	2625762.39	5/28/2008	Intermediate	6.6
GP-T52-06	LL2	497432.19	2625762.39	5/28/2008	Intermediate	0.22 J
GP-T52-07	LL2	497345.17	2626470.44	6/4/2008	Shallow	2.5 J
GP-T52-07	LL2	497345.17	2626470.44	6/4/2008	Shallow	2.9
GP-T52-07	LL2	497345.17	2626470.44	6/3/2008	Intermediate	3
GP-T52-07	LL2	497345.17	2626470.44	6/3/2008	Intermediate	0.15 J
GP-T52-08	LL2	497242.94	2625252.22	5/28/2008	Shallow	0.43
GP-T52-08	LL2	497242.94	2625252.22	5/28/2008	Shallow	1.1
GP-T52-08	LL2	497242.94	2625252.22	5/28/2008	Intermediate	2.1
GP-T52-08	LL2	497242.94	2625252.22	5/28/2008	Intermediate	2
GP-T52-08	LL2	497242.94	2625252.22	5/28/2008	Intermediate	1.3
GP-T52-09	LL2	497049.05	2626158.56	6/2/2008	Shallow	0.12 J
GP-T52-09	LL2	497049.05	2626158.56	5/30/2008	Shallow	1
GP-T52-09	LL2	497049.05	2626158.56	5/30/2008	Intermediate	2.4
GP-T52-09	LL2	497049.05	2626158.56	5/29/2008	Intermediate	0.31
GP-T52-10	LL2	497040.98	2627054.07	6/4/2008	Shallow	ND
GP-T52-10	LL2	497040.98	2627054.07	6/4/2008	Shallow	0.15 J
GP-T52-10	LL2	497040.98	2627054.07	6/4/2008	Intermediate	1.5
GP-T52-10	LL2	497040.98	2627054.07	6/3/2008	Intermediate	1
GP-T52-11	LL2	496708.94	2626102.82	6/3/2008	Shallow	0.38
GP-T52-11	LL2	496708.94	2626102.82	6/2/2008	Shallow	0.55
GP-T52-11	LL2	496708.94	2626102.82	6/2/2008	Intermediate	1.6
GP-T52-11	LL2	496708.94	2626102.82	6/2/2008	Intermediate	1
GP-T52-12	LL2	498725.71	2625276.98	5/15/2008	Shallow	ND
GP-T52-12	LL2	498725.71	2625276.98	5/14/2008	Shallow	2.3
GP-T52-12	LL2	498725.71	2625276.98	5/14/2008	Intermediate	ND
GP-T52-12	LL2	498725.71	2625276.98	5/13/2008	Intermediate	8.3
GP-T52-12	LL2	498725.71	2625276.98	5/13/2008	Intermediate	ND
GP-T52-13	LL2	498183.03	2624846.43	5/15/2008	Shallow	1.1
GP-T52-13	LL2	498183.03	2624846.43	5/15/2008	Shallow	0.63
GP-T52-13	LL2	498183.03	2624846.43	5/15/2008	Intermediate	6.3
GP-T52-13	LL2	498183.03	2624846.43	5/14/2008	Intermediate	5.1
GP-T52-14	LL2	498744.43	2623928.84	6/16/2008	Shallow	0.71
GP-T52-14	LL2	498744.43	2623928.84	6/16/2008	Shallow	0.7
GP-T52-14	LL2	498744.43	2623928.84	6/16/2008	Intermediate	0.93
GP-T52-14	LL2	498744.43	2623928.84	6/16/2008	Intermediate	0.53
GP-T52-15	LL2	498331.75	2624273.51	6/13/2008	Shallow	1.1
GP-T52-15	LL2	498331.75	2624273.51	6/13/2008	Shallow	0.83
GP-T52-15	LL2	498331.75	2624273.51	6/13/2008	Intermediate	1
GP-T52-15	LL2	498331.75	2624273.51	6/13/2008	Intermediate	0.19 J
GP-T52-15	LL2	498331.75	2624273.51	6/13/2008	Intermediate	0.18 J
GP-T52-16	LL2	497024.98	2624867.95	6/13/2008	Shallow	ND
GP-T52-16	LL2	497024.98	2624867.95	6/13/2008	Shallow	ND

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T52-16	LL2	497024.98	2624867.95	6/12/2008	Intermediate	1.2
GP-T52-16	LL2	497024.98	2624867.95	6/12/2008	Intermediate	ND
GP-T52-17	LL2	496415.64	2625425.96	6/12/2008	Shallow	0.43
GP-T52-17	LL2	496415.64	2625425.96	6/12/2008	Shallow	0.77
GP-T52-17	LL2	496415.64	2625425.96	6/12/2008	Intermediate	0.66
GP-T52-17	LL2	496415.64	2625425.96	6/12/2008	Intermediate	1.5
GP-T61-01	LL2	494941.57	2617796.29	12/1/2008	Shallow	ND
GP-T61-01	LL2	494941.57	2617796.29	12/1/2008	Shallow	ND
GP-T61-01	LL2	494941.57	2617796.29	12/1/2008	Shallow	ND
GP-T61-01	LL2	494941.57	2617796.29	12/1/2008	Intermediate	ND
GP-T61-01	LL2	494941.57	2617796.29	12/1/2008	Intermediate	ND
GP-T61-01	LL2	494941.57	2617796.29	12/1/2008	Intermediate	ND
GP-T61-01	LL2	494941.57	2617796.29	12/1/2008	Intermediate	ND
GP-T61-02	LL2	495335.35	2618465.35	12/2/2008	Shallow	ND
GP-T61-02	LL2	495335.35	2618465.35	12/2/2008	Shallow	ND
GP-T61-02	LL2	495335.35	2618465.35	12/2/2008	Intermediate	ND
GP-T61-02	LL2	495335.35	2618465.35	12/2/2008	Intermediate	ND
GP-T61-03	LL2	495517.18	2618815.26	12/3/2008	Shallow	ND
GP-T61-03	LL2	495517.18	2618815.26	12/3/2008	Shallow	ND
GP-T61-03	LL2	495517.18	2618815.26	12/3/2008	Intermediate	ND
GP-T61-03	LL2	495517.18	2618815.26	12/3/2008	Intermediate	ND
GP-T61-04	LL2	495757.41	2619171.07	12/6/2008	Shallow	ND
GP-T61-04	LL2	495757.41	2619171.07	12/6/2008	Shallow	11
GP-T61-04	LL2	495757.41	2619171.07	12/6/2008	Intermediate	ND
GP-T61-04	LL2	495757.41	2619171.07	12/6/2008	Intermediate	20
GP-T61-04	LL2	495757.41	2619171.07	12/6/2008	Intermediate	19
GP-T61-05	LL2	496031.15	2619654.4	12/6/2008	Shallow	ND
GP-T61-05	LL2	496031.15	2619654.4	12/6/2008	Shallow	ND
GP-T61-05	LL2	496031.15	2619654.4	12/6/2008	Intermediate	ND
GP-T61-05	LL2	496031.15	2619654.4	12/6/2008	Intermediate	ND
GP-T62-01	LL2	494621.62	2618413.32	12/2/2008	Shallow	ND
GP-T62-01	LL2	494621.62	2618413.32	12/2/2008	Shallow	ND
GP-T62-01	LL2	494621.62	2618413.32	12/2/2008	Intermediate	ND
GP-T62-01	LL2	494621.62	2618413.32	12/1/2008	Intermediate	ND
GP-T62-01	LL2	494621.62	2618413.32	12/1/2008	Intermediate	ND
GP-T62-02	LL2	494922.84	2618922.05	12/2/2008	Shallow	ND
GP-T62-02	LL2	494922.84	2618922.05	12/2/2008	Shallow	ND
GP-T62-02	LL2	494922.84	2618922.05	12/2/2008	Intermediate	ND
GP-T62-02	LL2	494922.84	2618922.05	12/2/2008	Intermediate	ND
GP-T62-03	LL2	495230.49	2619448.37	12/6/2008	Shallow	ND
GP-T62-03	LL2	495230.49	2619448.37	12/6/2008	Shallow	ND
GP-T62-03	LL2	495230.49	2619448.37	12/6/2008	Intermediate	20
GP-T62-03	LL2	495230.49	2619448.37	12/6/2008	Intermediate	3.2
GP-T62-04	LL2	495557.45	2620015.63	12/7/2008	Shallow	0.8 J
GP-T62-04	LL2	495557.45	2620015.63	12/7/2008	Shallow	35
GP-T62-04	LL2	495557.45	2620015.63	12/7/2008	Intermediate	17 J
GP-T62-04	LL2	495557.45	2620015.63	12/7/2008	Intermediate	ND

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T63-01	LL2	493923.76	2618427.02	12/2/2008	Shallow	ND
GP-T63-01	LL2	493923.76	2618427.02	12/2/2008	Shallow	ND
GP-T63-01	LL2	493923.76	2618427.02	12/2/2008	Shallow	ND
GP-T63-01	LL2	493923.76	2618427.02	12/2/2008	Intermediate	ND
GP-T63-01	LL2	493923.76	2618427.02	12/1/2008	Intermediate	ND
GP-T63-01	LL2	493923.76	2618427.02	12/1/2008	Intermediate	ND
GP-T63-01	LL2	493923.76	2618427.02	12/1/2008	Intermediate	ND
GP-T63-02	LL2	494223.74	2619137.76	12/1/2008	Shallow	ND
GP-T63-02	LL2	494223.74	2619137.76	12/1/2008	Shallow	ND
GP-T63-02	LL2	494223.74	2619137.76	12/1/2008	Shallow	ND
GP-T63-02	LL2	494223.74	2619137.76	12/1/2008	Intermediate	ND
GP-T63-02	LL2	494223.74	2619137.76	12/1/2008	Intermediate	ND
GP-T63-03	LL2	494392.9	2619609.59	12/2/2008	Shallow	ND
GP-T63-03	LL2	494392.9	2619609.59	12/2/2008	Shallow	ND
GP-T63-03	LL2	494392.9	2619609.59	12/2/2008	Intermediate	ND
GP-T63-03	LL2	494392.9	2619609.59	12/2/2008	Intermediate	ND
GP-T63-04	LL2	494610.85	2620063.67	12/3/2008	Shallow	ND
GP-T63-04	LL2	494610.85	2620063.67	12/3/2008	Shallow	ND
GP-T63-04	LL2	494610.85	2620063.67	12/3/2008	Intermediate	ND
GP-T66-001	LL2	502285.35	2616003.82	3/3/2010	Shallow	2.1
GP-T66-001	LL2	502285.35	2616003.82	3/3/2010	Intermediate	0.72
GP-T66-002	LL2	501841.9	2616302.13	3/3/2010	Shallow	3.3
GP-T66-002	LL2	501841.9	2616302.13	3/3/2010	Intermediate	ND
GP-T66-003	LL2	501718.1	2616394.46	3/2/2010	Shallow	18
GP-T66-003	LL2	501718.1	2616394.46	3/2/2010	Shallow	1.4
GP-T66-003	LL2	501718.1	2616394.46	3/2/2010	Intermediate	ND
GP-T66-004	LL2	501593.73	2616473.03	3/9/2010	Shallow	36
GP-T66-004	LL2	501593.73	2616473.03	3/9/2010	Shallow	25
GP-T66-004	LL2	501593.73	2616473.03	3/9/2010	Intermediate	ND
GP-T66-004	LL2	501593.73	2616473.03	3/9/2010	Intermediate	0.058 J
GP-T66-005	LL2	502001.77	2616052.19	3/7/2010	Shallow	57
GP-T66-005	LL2	502001.77	2616052.19	3/7/2010	Shallow	28
GP-T66-005	LL2	502001.77	2616052.19	3/7/2010	Shallow	25
GP-T66-005	LL2	502001.77	2616052.19	3/7/2010	Intermediate	42
GP-T66-006	LL2	502167.38	2616238.26	3/4/2010	Shallow	17
GP-T66-006	LL2	502167.38	2616238.26	3/4/2010	Intermediate	19
GP-T66-007	LL2	502257.56	2616363.13	3/4/2010	Shallow	5.6
GP-T66-007	LL2	502257.56	2616363.13	3/4/2010	Shallow	27
GP-T66-007	LL2	502257.56	2616363.13	3/3/2010	Intermediate	1.3 J
GP-T66-008	LL2	502039.855	2616150.804	5/17/2010	Shallow	ND
GP-T66-008	LL2	502039.855	2616150.804	5/17/2010	Intermediate	ND
GP-T66-008	LL2	502039.855	2616150.804	5/17/2010	Intermediate	ND
GP-T66-009	LL2	502029.8	2616142.88	3/9/2010	Shallow	4.2
GP-T66-009	LL2	502029.8	2616142.88	3/9/2010	Shallow	46
GP-T66-009	LL2	502029.8	2616142.88	3/7/2010	Shallow	7.3
GP-T66-010	LL2	502092.14	2616181.65	3/16/2010	Shallow	58
GP-T66-010	LL2	502092.14	2616181.65	3/16/2010	Shallow	100 J

Table 3-1
RDX in Monitoring Wells and Direct-Push Samples (2008-2012)
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Former NOP, Mead, Nebraska

Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T66-010	LL2	502092.14	2616181.65	3/16/2010	Shallow	44
GP-T66-010	LL2	502092.14	2616181.65	3/15/2010	Intermediate	17
GP-T66-010	LL2	502092.14	2616181.65	3/15/2010	Intermediate	0.074 J
GP-T66-010	LL2	502092.14	2616181.65	3/15/2010	Intermediate	14
GP-T66-011	LL2	501908.11	2616138.69	3/11/2010	Shallow	35
GP-T66-011	LL2	501908.11	2616138.69	3/11/2010	Shallow	66
GP-T66-011	LL2	501908.11	2616138.69	3/11/2010	Shallow	7.1
GP-T66-011	LL2	501908.11	2616138.69	3/11/2010	Intermediate	1.3
GP-T66-011	LL2	501908.11	2616138.69	3/11/2010	Intermediate	44
GP-T66-012	LL2	502064.26	2616242.49	4/14/2010	Shallow	7.1
GP-T66-012	LL2	502064.26	2616242.49	4/14/2010	Shallow	1.5
GP-T66-012	LL2	502064.26	2616242.49	4/14/2010	Shallow	41
GP-T66-012	LL2	502064.26	2616242.49	4/14/2010	Shallow	16 J
GP-T66-012	LL2	502064.26	2616242.49	4/14/2010	Shallow	50
GP-T66-012	LL2	502064.26	2616242.49	4/14/2010	Intermediate	17
GP-T66-012	LL2	502064.26	2616242.49	4/14/2010	Intermediate	6.5
GP-T66-013	LL2	501881.749	2616258.357	5/17/2010	Shallow	ND
GP-T66-013	LL2	501881.749	2616258.357	5/17/2010	Shallow	ND
GP-T66-013	LL2	501881.749	2616258.357	5/17/2010	Intermediate	ND
GP-T67-001	LL2	500697.66	2617437.46	3/4/2010	Shallow	0.16 J
GP-T67-001	LL2	500697.66	2617437.46	3/4/2010	Shallow	74
GP-T67-001	LL2	500697.66	2617437.46	3/4/2010	Intermediate	ND
GP-T67-002	LL2	500597.18	2617505.88	3/5/2010	Shallow	14
GP-T67-002	LL2	500597.18	2617505.88	3/5/2010	Shallow	37
GP-T67-002	LL2	500597.18	2617505.88	3/5/2010	Intermediate	1.1 J
GP-T67-003	LL2	500461.44	2617603.3	3/5/2010	Intermediate	55
GP-T67-003	LL2	500461.44	2617603.3	3/5/2010	Intermediate	ND
GP-T67-007	LL2	499975.52	2618050.36	3/6/2010	Shallow	3.5
GP-T67-007	LL2	499975.52	2618050.36	3/6/2010	Intermediate	ND
GP-T67-009	LL2	500648.38	2617421.11	3/10/2010	Shallow	ND
GP-T67-009	LL2	500648.38	2617421.11	3/10/2010	Shallow	19
GP-T67-009	LL2	500648.38	2617421.11	3/10/2010	Shallow	46
GP-T67-009	LL2	500648.38	2617421.11	3/10/2010	Intermediate	19
GP-T67-009	LL2	500648.38	2617421.11	3/10/2010	Intermediate	1.2
GP-T67-010	LL2	500702.18	2617547.49	3/11/2010	Shallow	20
GP-T67-010	LL2	500702.18	2617547.49	3/11/2010	Shallow	21
GP-T67-010	LL2	500702.18	2617547.49	3/11/2010	Shallow	28
GP-T67-010	LL2	500702.18	2617547.49	3/11/2010	Intermediate	0.48
GP-T67-010	LL2	500702.18	2617547.49	3/11/2010	Intermediate	ND
GP-T67-012	LL2	500641.98	2617265.24	3/26/2010	Shallow	30
GP-T67-012	LL2	500641.98	2617265.24	3/26/2010	Shallow	59
GP-T67-012	LL2	500641.98	2617265.24	3/26/2010	Shallow	50
GP-T67-012	LL2	500641.98	2617265.24	3/26/2010	Shallow	9.8
GP-T67-012	LL2	500641.98	2617265.24	3/26/2010	Intermediate	4
GP-T67-012	LL2	500641.98	2617265.24	3/26/2010	Intermediate	2.8
GP-T67-012	LL2	500641.98	2617265.24	3/26/2010	Intermediate	ND
GP-T67-012	LL2	500641.98	2617265.24	3/26/2010	Intermediate	ND

Table 3-1
RDX in Monitoring Wells and Direct-Push Samples (2008-2012)
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Former NOP, Mead, Nebraska

Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T89-001	LL2	507278.44	2612125.14	11/9/2011	Shallow	29
GP-T89-001	LL2	507278.44	2612125.14	11/9/2011	Shallow	120
GP-T89-001	LL2	507278.44	2612125.14	11/9/2011	Shallow	13
GP-T89-001	LL2	507278.44	2612125.14	11/9/2011	Shallow	0.063 J
GP-T89-001	LL2	507278.44	2612125.14	11/9/2011	Intermediate	0.03 J
GP-T89-001	LL2	507278.44	2612125.14	11/9/2011	Intermediate	ND
GP-T89-002	LL2	506653.46	2612060.38	11/9/2011	Shallow	1.6
GP-T89-002	LL2	506653.46	2612060.38	11/9/2011	Shallow	0.041 J
GP-T89-002	LL2	506653.46	2612060.38	11/9/2011	Shallow	120
GP-T89-002	LL2	506653.46	2612060.38	11/9/2011	Shallow	0.034 J
GP-T89-002	LL2	506653.46	2612060.38	11/9/2011	Intermediate	ND
GP-T89-002	LL2	506653.46	2612060.38	11/9/2011	Intermediate	0.087 J
GP-T89-002	LL2	506653.46	2612060.38	11/8/2011	Intermediate	0.036 J
GP-T89-003	LL2	507019.22	2612748.87	11/9/2011	Shallow	0.74
GP-T89-003	LL2	507019.22	2612748.87	11/9/2011	Shallow	0.76
GP-T89-003	LL2	507019.22	2612748.87	11/9/2011	Shallow	ND
GP-T89-003	LL2	507019.22	2612748.87	11/9/2011	Shallow	0.12 J
GP-T89-003	LL2	507019.22	2612748.87	11/9/2011	Shallow	ND
GP-T89-003	LL2	507019.22	2612748.87	11/9/2011	Shallow	0.6 J
GP-T89-003	LL2	507019.22	2612748.87	11/9/2011	Intermediate	0.52 J
GP-T89-003	LL2	507019.22	2612748.87	11/8/2011	Intermediate	1.4 J
GP-T89-004	LL2	506655.79	2612563.12	11/8/2011	Shallow	0.032 J
GP-T89-004	LL2	506655.79	2612563.12	11/8/2011	Shallow	0.08 J
GP-T89-004	LL2	506655.79	2612563.12	11/8/2011	Shallow	0.28
GP-T89-004	LL2	506655.79	2612563.12	11/8/2011	Shallow	0.12 J
GP-T89-004	LL2	506655.79	2612563.12	11/8/2011	Intermediate	0.21
GP-T89-004	LL2	506655.79	2612563.12	11/8/2011	Intermediate	0.033 J
GP-T89-005	LL2	507151.59	2611884.39	12/13/2011	Shallow	0.18 J
GP-T89-005	LL2	507151.59	2611884.39	12/13/2011	Shallow	0.14 J
GP-T89-005	LL2	507151.59	2611884.39	12/13/2011	Shallow	0.1 J
GP-T89-005	LL2	507151.59	2611884.39	12/13/2011	Shallow	0.11 J
GP-T89-005	LL2	507151.59	2611884.39	12/13/2011	Shallow	0.16 J
GP-T89-005	LL2	507151.59	2611884.39	12/13/2011	Intermediate	ND
GP-T89-005	LL2	507151.59	2611884.39	12/13/2011	Intermediate	ND
GP-T89-005	LL2	507151.59	2611884.39	12/13/2011	Intermediate	0.063 J
GP-T89-006	LL2	507455.89	2612403.37	12/14/2011	Shallow	0.12 J
GP-T89-006	LL2	507455.89	2612403.37	12/14/2011	Shallow	0.11 J
GP-T89-006	LL2	507455.89	2612403.37	12/14/2011	Shallow	ND
GP-T89-006	LL2	507455.89	2612403.37	12/14/2011	Shallow	ND
GP-T89-006	LL2	507455.89	2612403.37	12/14/2011	Shallow	ND
GP-T89-006	LL2	507455.89	2612403.37	12/14/2011	Intermediate	ND
GP-T89-006	LL2	507455.89	2612403.37	12/14/2011	Intermediate	ND
GP-T89-006	LL2	507455.89	2612403.37	12/14/2011	Intermediate	ND
GP-T89-007	LL2	506960.02	2612285.61	12/14/2011	Shallow	47
GP-T89-007	LL2	506960.02	2612285.61	12/14/2011	Shallow	14
GP-T89-007	LL2	506960.02	2612285.61	12/14/2011	Shallow	3.7
GP-T89-007	LL2	506960.02	2612285.61	12/14/2011	Shallow	1.5

Table 3-1
RDX in Monitoring Wells and Direct-Push Samples (2008-2012)
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Former NOP, Mead, Nebraska

Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T89-007	LL2	506960.02	2612285.61	12/14/2011	Shallow	0.18 J
GP-T89-007	LL2	506960.02	2612285.61	12/14/2011	Intermediate	ND
GP-T89-007	LL2	506960.02	2612285.61	12/14/2011	Intermediate	0.19 J
GP-T89-008	LL2	506625.69	2611850.78	12/13/2011	Shallow	0.35 J
GP-T89-008	LL2	506625.69	2611850.78	12/13/2011	Shallow	0.074 J
GP-T89-008	LL2	506625.69	2611850.78	12/13/2011	Shallow	0.049 J
GP-T89-008	LL2	506625.69	2611850.78	12/13/2011	Shallow	ND
GP-T89-008	LL2	506625.69	2611850.78	12/13/2011	Intermediate	ND
GP-T89-008	LL2	506625.69	2611850.78	12/13/2011	Intermediate	ND
GP-T89-008	LL2	506625.69	2611850.78	12/13/2011	Intermediate	ND
GP-T89-008	LL2	506625.69	2611850.78	12/13/2011	Intermediate	ND
GP-T89-009	LL2	506485.58	2612297.95	12/13/2011	Shallow	0.17 J
GP-T89-009	LL2	506485.58	2612297.95	12/13/2011	Shallow	0.17 J
GP-T89-009	LL2	506485.58	2612297.95	12/13/2011	Shallow	0.26 J
GP-T89-009	LL2	506485.58	2612297.95	12/13/2011	Shallow	0.78
GP-T89-009	LL2	506485.58	2612297.95	12/13/2011	Shallow	0.6
GP-T89-009	LL2	506485.58	2612297.95	12/13/2011	Intermediate	0.088 J
GP-T89-009	LL2	506485.58	2612297.95	12/13/2011	Intermediate	0.079 J
GP-T89-009	LL2	506485.58	2612297.95	12/13/2011	Intermediate	ND
GP-T89-010	LL2	507828.32	2611791.1	1/26/2012	Shallow	ND
GP-T89-010	LL2	507828.32	2611791.1	1/26/2012	Shallow	ND
GP-T89-010	LL2	507828.32	2611791.1	1/26/2012	Shallow	ND
GP-T89-010	LL2	507828.32	2611791.1	1/26/2012	Shallow	ND
GP-T89-010	LL2	507828.32	2611791.1	1/26/2012	Shallow	ND
GP-T89-010	LL2	507828.32	2611791.1	1/26/2012	Intermediate	ND
GP-T89-010	LL2	507828.32	2611791.1	1/26/2012	Intermediate	ND
GP-T89-010	LL2	507828.32	2611791.1	1/26/2012	Intermediate	ND
GP-T89-011	LL2	507966.58	2612130.18	1/26/2012	Shallow	ND
GP-T89-011	LL2	507966.58	2612130.18	1/26/2012	Shallow	ND
GP-T89-011	LL2	507966.58	2612130.18	1/26/2012	Shallow	ND
GP-T89-011	LL2	507966.58	2612130.18	1/26/2012	Shallow	ND
GP-T89-011	LL2	507966.58	2612130.18	1/26/2012	Shallow	ND
GP-T89-011	LL2	507966.58	2612130.18	1/26/2012	Shallow	ND
GP-T89-011	LL2	507966.58	2612130.18	1/26/2012	Intermediate	ND
GP-T89-011	LL2	507966.58	2612130.18	1/26/2012	Intermediate	ND
GP-T89-011	LL2	507966.58	2612130.18	1/26/2012	Intermediate	ND
GP-T89-012	LL2	507354.81	2611550.23	1/23/2012	Shallow	0.18 J
GP-T89-012	LL2	507354.81	2611550.23	1/23/2012	Shallow	0.14 J
GP-T89-012	LL2	507354.81	2611550.23	1/23/2012	Shallow	0.092 J
GP-T89-012	LL2	507354.81	2611550.23	1/20/2012	Shallow	1.1
GP-T89-013	LL2	507456.81	2611794.46	1/23/2012	Shallow	0.2 J
GP-T89-013	LL2	507456.81	2611794.46	1/23/2012	Shallow	0.28 J
GP-T89-013	LL2	507456.81	2611794.46	1/23/2012	Shallow	0.19 J
GP-T89-013	LL2	507456.81	2611794.46	1/23/2012	Shallow	0.16 J
GP-T89-013	LL2	507456.81	2611794.46	1/23/2012	Intermediate	ND
GP-T89-013	LL2	507456.81	2611794.46	1/23/2012	Intermediate	ND
GP-T89-014	LL2	507567.4	2611999.29	1/25/2012	Shallow	0.42

Table 3-1
RDX in Monitoring Wells and Direct-Push Samples (2008-2012)
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T89-014	LL2	507567.4	2611999.29	1/25/2012	Shallow	0.68
GP-T89-014	LL2	507567.4	2611999.29	1/25/2012	Shallow	0.11 J
GP-T89-014	LL2	507567.4	2611999.29	1/25/2012	Intermediate	ND
GP-T89-014	LL2	507567.4	2611999.29	1/25/2012	Intermediate	ND
GP-T89-014	LL2	507567.4	2611999.29	1/25/2012	Intermediate	ND
GP-T89-014	LL2	507567.4	2611999.29	1/23/2012	Intermediate	4.1 J
GP-T89-015	LL2	507702.68	2612276.18	1/25/2012	Shallow	29
GP-T89-015	LL2	507702.68	2612276.18	1/25/2012	Shallow	ND
GP-T89-015	LL2	507702.68	2612276.18	1/25/2012	Shallow	0.07 J
GP-T89-015	LL2	507702.68	2612276.18	1/25/2012	Shallow	ND
GP-T89-015	LL2	507702.68	2612276.18	1/25/2012	Shallow	ND
GP-T89-015	LL2	507702.68	2612276.18	1/25/2012	Intermediate	0.06 J
GP-T89-015	LL2	507702.68	2612276.18	1/25/2012	Intermediate	ND
GP-T89-015	LL2	507702.68	2612276.18	1/25/2012	Intermediate	0.19 J
GP-T89-016	LL2	507899.68	2612482.4	1/25/2012	Shallow	1.4
GP-T89-016	LL2	507899.68	2612482.4	1/25/2012	Shallow	0.61
GP-T89-016	LL2	507899.68	2612482.4	1/25/2012	Shallow	0.27 J
GP-T89-016	LL2	507899.68	2612482.4	1/25/2012	Shallow	0.23 J
GP-T89-016	LL2	507899.68	2612482.4	1/25/2012	Shallow	ND
GP-T89-016	LL2	507899.68	2612482.4	1/25/2012	Intermediate	ND
GP-T89-016	LL2	507899.68	2612482.4	1/25/2012	Intermediate	ND
GP-T89-016	LL2	507899.68	2612482.4	1/25/2012	Intermediate	0.066 J
GP-T89-017	LL2	506349	2612047.08	1/16/2012	Shallow	0.081 J
GP-T89-017	LL2	506349	2612047.08	1/16/2012	Shallow	0.33 J
GP-T89-017	LL2	506349	2612047.08	1/16/2012	Shallow	12
GP-T89-017	LL2	506349	2612047.08	1/16/2012	Shallow	1.7
GP-T89-017	LL2	506349	2612047.08	1/16/2012	Intermediate	0.077 J
GP-T89-017	LL2	506349	2612047.08	1/16/2012	Intermediate	0.1 J
GP-T89-017	LL2	506349	2612047.08	1/16/2012	Intermediate	0.36 J
GP-T89-018	LL2	506803.66	2612764.36	1/16/2012	Shallow	14
GP-T89-018	LL2	506803.66	2612764.36	1/16/2012	Shallow	0.26 J
GP-T89-018	LL2	506803.66	2612764.36	1/16/2012	Shallow	0.082 J
GP-T89-018	LL2	506803.66	2612764.36	1/16/2012	Shallow	ND
GP-T89-018	LL2	506803.66	2612764.36	1/16/2012	Intermediate	ND
GP-T89-018	LL2	506803.66	2612764.36	1/16/2012	Intermediate	0.43
GP-T89-018	LL2	506803.66	2612764.36	1/16/2012	Intermediate	0.11 J
GP-T89-019	LL2	507094.46	2612994.03	1/20/2012	Shallow	2.6
GP-T89-019	LL2	507094.46	2612994.03	1/20/2012	Shallow	0.27 J
GP-T89-019	LL2	507094.46	2612994.03	1/20/2012	Shallow	0.11 J
GP-T89-019	LL2	507094.46	2612994.03	1/20/2012	Shallow	ND
GP-T89-019	LL2	507094.46	2612994.03	1/20/2012	Intermediate	0.11 J
GP-T89-019	LL2	507094.46	2612994.03	1/20/2012	Intermediate	0.079 J
GP-T89-019	LL2	507094.46	2612994.03	1/20/2012	Intermediate	ND
GP-T89-020	LL2	506227.59	2612703.1	1/17/2012	Shallow	0.8
GP-T89-020	LL2	506227.59	2612703.1	1/17/2012	Shallow	1.7
GP-T89-020	LL2	506227.59	2612703.1	1/17/2012	Shallow	1.1
GP-T89-020	LL2	506227.59	2612703.1	1/17/2012	Shallow	0.18 J

Table 3-1
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T89-020	LL2	506227.59	2612703.1	1/17/2012	Intermediate	0.44
GP-T89-020	LL2	506227.59	2612703.1	1/17/2012	Intermediate	0.55
GP-T89-020	LL2	506227.59	2612703.1	1/17/2012	Intermediate	0.057 J
GP-T89-021	LL2	506407.54	2612955.72	1/17/2012	Shallow	2.9
GP-T89-021	LL2	506407.54	2612955.72	1/17/2012	Shallow	1.8
GP-T89-021	LL2	506407.54	2612955.72	1/17/2012	Shallow	0.42
GP-T89-021	LL2	506407.54	2612955.72	1/17/2012	Intermediate	1.5
GP-T89-021	LL2	506407.54	2612955.72	1/17/2012	Intermediate	0.81
GP-T89-021	LL2	506407.54	2612955.72	1/17/2012	Intermediate	0.066 J
GP-T89-022	LL2	506552.03	2613169.42	1/19/2012	Shallow	0.97
GP-T89-022	LL2	506552.03	2613169.42	1/19/2012	Shallow	4.3
GP-T89-022	LL2	506552.03	2613169.42	1/19/2012	Shallow	0.14 J
GP-T89-022	LL2	506552.03	2613169.42	1/19/2012	Shallow	0.06 J
GP-T89-022	LL2	506552.03	2613169.42	1/19/2012	Intermediate	0.19 J
GP-T89-022	LL2	506552.03	2613169.42	1/19/2012	Intermediate	0.11 J
GP-T89-022	LL2	506552.03	2613169.42	1/19/2012	Intermediate	0.097 J
GP-T89-023	LL2	506724.53	2613394.46	1/19/2012	Shallow	0.23 J
GP-T89-023	LL2	506724.53	2613394.46	1/19/2012	Shallow	0.23 J
GP-T89-023	LL2	506724.53	2613394.46	1/19/2012	Shallow	0.22 J
GP-T89-023	LL2	506724.53	2613394.46	1/19/2012	Shallow	ND
GP-T89-023	LL2	506724.53	2613394.46	1/19/2012	Shallow	0.88
GP-T89-023	LL2	506724.53	2613394.46	1/19/2012	Intermediate	0.39 J
GP-T89-023	LL2	506724.53	2613394.46	1/19/2012	Intermediate	0.34 J
GP-T89-024	LL2	506919.34	2613538.97	1/20/2012	Shallow	0.19 J
GP-T89-024	LL2	506919.34	2613538.97	1/20/2012	Shallow	0.26 J
GP-T89-024	LL2	506919.34	2613538.97	1/20/2012	Shallow	0.67
GP-T89-024	LL2	506919.34	2613538.97	1/20/2012	Shallow	1.3
GP-T89-024	LL2	506919.34	2613538.97	1/20/2012	Shallow	2.9
GP-T89-024	LL2	506919.34	2613538.97	1/20/2012	Intermediate	1.9
GP-T89-024	LL2	506919.34	2613538.97	1/20/2012	Intermediate	1.5
GP-T90-001	LL2	504455.84	2612757.75	11/11/2011	Shallow	0.03 J
GP-T90-001	LL2	504455.84	2612757.75	11/11/2011	Shallow	0.2
GP-T90-001	LL2	504455.84	2612757.75	11/11/2011	Shallow	2.5
GP-T90-001	LL2	504455.84	2612757.75	11/11/2011	Shallow	0.51
GP-T90-001	LL2	504455.84	2612757.75	11/11/2011	Intermediate	0.14 J
GP-T90-001	LL2	504455.84	2612757.75	11/11/2011	Intermediate	0.067 J
GP-T90-001	LL2	504455.84	2612757.75	11/11/2011	Intermediate	0.056 J
GP-T90-002	LL2	504815.57	2613238.23	11/11/2011	Shallow	0.063 J
GP-T90-002	LL2	504815.57	2613238.23	11/11/2011	Shallow	0.27
GP-T90-002	LL2	504815.57	2613238.23	11/10/2011	Shallow	0.1 J
GP-T90-002	LL2	504815.57	2613238.23	11/10/2011	Intermediate	1.7
GP-T90-002	LL2	504815.57	2613238.23	11/10/2011	Intermediate	ND
GP-T90-002	LL2	504815.57	2613238.23	11/10/2011	Intermediate	ND
GP-T90-003	LL2	504824.58	2613737.8	11/11/2011	Shallow	0.093 J
GP-T90-003	LL2	504824.58	2613737.8	11/11/2011	Shallow	1.2
GP-T90-003	LL2	504824.58	2613737.8	11/11/2011	Shallow	0.37
GP-T90-003	LL2	504824.58	2613737.8	11/11/2011	Shallow	0.041 J

Table 3-1
RDX in Monitoring Wells and Direct-Push Samples (2008-2012)
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T90-003	LL2	504824.58	2613737.8	11/11/2011	Intermediate	0.06 J
GP-T90-003	LL2	504824.58	2613737.8	11/11/2011	Intermediate	0.077 J
GP-T90-003	LL2	504824.58	2613737.8	11/11/2011	Intermediate	0.045 J
GP-T90-004	LL2	505045.59	2614135.39	12/13/2011	Shallow	9.1
GP-T90-004	LL2	505045.59	2614135.39	12/13/2011	Shallow	0.12 J
GP-T90-004	LL2	505045.59	2614135.39	12/13/2011	Shallow	0.097 J
GP-T90-004	LL2	505045.59	2614135.39	12/13/2011	Shallow	ND
GP-T90-004	LL2	505045.59	2614135.39	12/13/2011	Shallow	ND
GP-T90-004	LL2	505045.59	2614135.39	12/13/2011	Intermediate	0.27 J
GP-T90-004	LL2	505045.59	2614135.39	12/12/2011	Intermediate	ND
GP-T90-005	LL2	505255.4	2614511.08	12/12/2011	Shallow	0.29 J
GP-T90-005	LL2	505255.4	2614511.08	12/12/2011	Shallow	0.19 J
GP-T90-005	LL2	505255.4	2614511.08	12/12/2011	Shallow	0.12 J
GP-T90-005	LL2	505255.4	2614511.08	12/12/2011	Shallow	0.073 J
GP-T90-005	LL2	505255.4	2614511.08	12/12/2011	Intermediate	0.061 J
GP-T90-005	LL2	505255.4	2614511.08	12/12/2011	Intermediate	0.052 J
GP-T90-005	LL2	505255.4	2614511.08	12/12/2011	Intermediate	0.2 J
GP-T90-006	LL2	504247.6	2612298.85	12/13/2011	Shallow	0.087 J
GP-T90-006	LL2	504247.6	2612298.85	12/13/2011	Shallow	0.13 J
GP-T90-006	LL2	504247.6	2612298.85	12/13/2011	Shallow	0.058 J
GP-T90-006	LL2	504247.6	2612298.85	12/13/2011	Shallow	0.065 J
GP-T90-006	LL2	504247.6	2612298.85	12/13/2011	Intermediate	0.096 J
GP-T90-006	LL2	504247.6	2612298.85	12/13/2011	Intermediate	0.084 J
GP-T90-006	LL2	504247.6	2612298.85	12/13/2011	Intermediate	0.053 J
GP-T90-006	LL2	504247.6	2612298.85	12/13/2011	Intermediate	ND
GP-T90-006	LL2	504247.6	2612298.85	12/13/2011	Intermediate	ND
GP-T90-006	LL2	504247.6	2612298.85	12/13/2011	Intermediate	ND
GP-T91-001	LL2	501372.92	2612524.5	11/12/2011	Shallow	0.06 J
GP-T91-001	LL2	501372.92	2612524.5	11/11/2011	Shallow	0.41
GP-T91-001	LL2	501372.92	2612524.5	11/11/2011	Shallow	0.061 J
GP-T91-001	LL2	501372.92	2612524.5	11/11/2011	Shallow	0.37
GP-T91-001	LL2	501372.92	2612524.5	11/11/2011	Intermediate	0.077 J
GP-T91-001	LL2	501372.92	2612524.5	11/11/2011	Intermediate	0.031 J
GP-T91-001	LL2	501372.92	2612524.5	11/11/2011	Intermediate	0.033 J
GP-T91-001	LL2	501372.92	2612524.5	11/11/2011	Intermediate	ND
GP-T91-001	LL2	501372.92	2612524.5	11/11/2011	Intermediate	ND
GP-T91-001	LL2	501372.92	2612524.5	11/11/2011	Intermediate	0.1 J
GP-T91-002	LL2	501555.04	2612989.81	11/12/2011	Shallow	0.15 J
GP-T91-002	LL2	501555.04	2612989.81	11/12/2011	Shallow	1.9 J
GP-T91-002	LL2	501555.04	2612989.81	11/12/2011	Shallow	4.1
GP-T91-002	LL2	501555.04	2612989.81	11/12/2011	Shallow	0.23
GP-T91-002	LL2	501555.04	2612989.81	11/12/2011	Intermediate	0.32
GP-T91-002	LL2	501555.04	2612989.81	11/12/2011	Intermediate	0.28
GP-T91-002	LL2	501555.04	2612989.81	11/12/2011	Intermediate	0.076 J
GP-T91-002	LL2	501555.04	2612989.81	11/12/2011	Intermediate	0.21
GP-T91-002	LL2	501555.04	2612989.81	11/12/2011	Intermediate	0.034 J
GP-T91-003	LL2	501764.04	2613442.15	11/14/2011	Shallow	1.4 J

Table 3-1
RDX in Monitoring Wells and Direct-Push Samples (2008-2012)
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T91-003	LL2	501764.04	2613442.15	11/14/2011	Shallow	0.65 J
GP-T91-003	LL2	501764.04	2613442.15	11/14/2011	Shallow	ND
GP-T91-003	LL2	501764.04	2613442.15	11/14/2011	Shallow	ND
GP-T91-003	LL2	501764.04	2613442.15	11/14/2011	Intermediate	ND
GP-T91-003	LL2	501764.04	2613442.15	11/14/2011	Intermediate	ND
GP-T91-003	LL2	501764.04	2613442.15	11/14/2011	Intermediate	ND
GP-T91-003	LL2	501764.04	2613442.15	11/14/2011	Intermediate	ND
GP-T91-003	LL2	501764.04	2613442.15	11/14/2011	Intermediate	ND
GP-T91-003	LL2	501764.04	2613442.15	11/11/2011	Intermediate	0.06 J
GP-T91-004	LL2	501990.8	2613892.95	11/15/2011	Shallow	2.3
GP-T91-004	LL2	501990.8	2613892.95	11/15/2011	Shallow	2.3
GP-T91-004	LL2	501990.8	2613892.95	11/15/2011	Intermediate	0.12 J
GP-T91-004	LL2	501990.8	2613892.95	11/14/2011	Intermediate	0.39
GP-T91-004	LL2	501990.8	2613892.95	11/14/2011	Intermediate	0.17 J
GP-T91-004	LL2	501990.8	2613892.95	11/14/2011	Intermediate	0.17 J
GP-T91-004	LL2	501990.8	2613892.95	11/14/2011	Intermediate	1.1
GP-T91-004	LL2	501990.8	2613892.95	11/14/2011	Intermediate	0.12 J
GP-T91-004	LL2	501990.8	2613892.95	11/14/2011	Intermediate	ND
GP-T91-005	LL2	502217.56	2614338.94	11/15/2011	Shallow	0.24
GP-T91-005	LL2	502217.56	2614338.94	11/15/2011	Shallow	0.081 J
GP-T91-005	LL2	502217.56	2614338.94	11/15/2011	Shallow	0.5
GP-T91-005	LL2	502217.56	2614338.94	11/15/2011	Intermediate	6.5
GP-T91-005	LL2	502217.56	2614338.94	11/15/2011	Intermediate	0.056 J
GP-T91-005	LL2	502217.56	2614338.94	11/15/2011	Intermediate	0.16 J
GP-T91-006	LL2	502428.81	2614800.39	11/16/2011	Shallow	ND
GP-T91-006	LL2	502428.81	2614800.39	11/16/2011	Shallow	0.24
GP-T91-006	LL2	502428.81	2614800.39	11/16/2011	Shallow	0.36
GP-T91-006	LL2	502428.81	2614800.39	11/16/2011	Shallow	18
GP-T91-006	LL2	502428.81	2614800.39	11/16/2011	Intermediate	49
GP-T91-006	LL2	502428.81	2614800.39	11/16/2011	Intermediate	0.11 J
GP-T91-006	LL2	502428.81	2614800.39	11/16/2011	Intermediate	0.86
GP-T91-006	LL2	502428.81	2614800.39	11/16/2011	Intermediate	0.054 J
GP-T91-006	LL2	502428.81	2614800.39	11/16/2011	Intermediate	ND
GP-T91-007	LL2	502656.4	2615233.68	11/16/2011	Shallow	0.4
GP-T91-007	LL2	502656.4	2615233.68	11/16/2011	Shallow	0.074 J
GP-T91-007	LL2	502656.4	2615233.68	11/16/2011	Shallow	1.9
GP-T91-007	LL2	502656.4	2615233.68	11/16/2011	Shallow	57
GP-T91-007	LL2	502656.4	2615233.68	11/16/2011	Intermediate	19
GP-T91-007	LL2	502656.4	2615233.68	11/16/2011	Intermediate	7.3
GP-T91-007	LL2	502656.4	2615233.68	11/16/2011	Intermediate	1.4
GP-T91-008	LL2	502870.14	2615666.87	11/17/2011	Shallow	0.74
GP-T91-008	LL2	502870.14	2615666.87	11/17/2011	Shallow	9.1
GP-T91-008	LL2	502870.14	2615666.87	11/16/2011	Shallow	ND
GP-T91-008	LL2	502870.14	2615666.87	11/16/2011	Intermediate	0.46
GP-T91-008	LL2	502870.14	2615666.87	11/16/2011	Intermediate	0.031 J
GP-T91-008	LL2	502870.14	2615666.87	11/16/2011	Intermediate	ND
GP-T91-009	LL2	503087.81	2616126.31	11/17/2011	Shallow	0.15 J

Table 3-1
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T91-009	LL2	503087.81	2616126.31	11/17/2011	Shallow	0.53
GP-T91-009	LL2	503087.81	2616126.31	11/17/2011	Shallow	0.59
GP-T91-009	LL2	503087.81	2616126.31	11/17/2011	Intermediate	2.6
GP-T91-009	LL2	503087.81	2616126.31	11/17/2011	Intermediate	0.13 J
GP-T91-009	LL2	503087.81	2616126.31	11/17/2011	Intermediate	1.4
GP-T91-010	LL2	503188.71	2616672.1	11/17/2011	Shallow	0.028 J
GP-T91-010	LL2	503188.71	2616672.1	11/17/2011	Shallow	ND
GP-T91-010	LL2	503188.71	2616672.1	11/17/2011	Shallow	0.024 J
GP-T91-010	LL2	503188.71	2616672.1	11/17/2011	Intermediate	0.037 J
GP-T91-010	LL2	503188.71	2616672.1	11/17/2011	Intermediate	ND
GP-T91-010	LL2	503188.71	2616672.1	11/17/2011	Intermediate	0.04 J
GP-T91-010	LL2	503188.71	2616672.1	11/17/2011	Intermediate	0.034 J
GP-T92-001	LL2	500233.12	2613100.23	11/22/2011	Shallow	0.11 J
GP-T92-001	LL2	500233.12	2613100.23	11/22/2011	Shallow	0.07 J
GP-T92-001	LL2	500233.12	2613100.23	11/22/2011	Shallow	ND
GP-T92-001	LL2	500233.12	2613100.23	11/22/2011	Intermediate	0.2 J
GP-T92-001	LL2	500233.12	2613100.23	11/21/2011	Intermediate	0.038 J
GP-T92-001	LL2	500233.12	2613100.23	11/21/2011	Intermediate	0.088 J
GP-T92-001	LL2	500233.12	2613100.23	11/21/2011	Intermediate	0.73
GP-T92-001	LL2	500233.12	2613100.23	11/21/2011	Intermediate	0.054 J
GP-T92-002	LL2	500397.66	2613574.07	11/18/2011	Shallow	0.13 J
GP-T92-002	LL2	500397.66	2613574.07	11/18/2011	Shallow	0.15 J
GP-T92-002	LL2	500397.66	2613574.07	11/18/2011	Shallow	0.51
GP-T92-002	LL2	500397.66	2613574.07	11/18/2011	Intermediate	1.5
GP-T92-002	LL2	500397.66	2613574.07	11/18/2011	Intermediate	0.14 J
GP-T92-002	LL2	500397.66	2613574.07	11/17/2011	Intermediate	0.69
GP-T92-002	LL2	500397.66	2613574.07	11/17/2011	Intermediate	0.44
GP-T92-002	LL2	500397.66	2613574.07	11/17/2011	Intermediate	0.062 J
GP-T92-002	LL2	500397.66	2613574.07	11/17/2011	Intermediate	0.025 J
GP-T92-003	LL2	500574.1	2614056.19	11/21/2011	Shallow	0.5
GP-T92-003	LL2	500574.1	2614056.19	11/21/2011	Shallow	0.5
GP-T92-003	LL2	500574.1	2614056.19	11/18/2011	Intermediate	0.81
GP-T92-003	LL2	500574.1	2614056.19	11/18/2011	Intermediate	0.49
GP-T92-003	LL2	500574.1	2614056.19	11/18/2011	Intermediate	0.23 J
GP-T92-003	LL2	500574.1	2614056.19	11/18/2011	Intermediate	0.11 J
GP-T92-003	LL2	500574.1	2614056.19	11/18/2011	Intermediate	ND
GP-T92-004	LL2	500743.4	2614500.65	11/22/2011	Shallow	ND
GP-T92-004	LL2	500743.4	2614500.65	11/22/2011	Shallow	0.12 J
GP-T92-004	LL2	500743.4	2614500.65	11/22/2011	Shallow	ND
GP-T92-004	LL2	500743.4	2614500.65	11/22/2011	Intermediate	ND
GP-T92-004	LL2	500743.4	2614500.65	11/22/2011	Intermediate	ND
GP-T92-004	LL2	500743.4	2614500.65	11/22/2011	Intermediate	ND
GP-T92-004	LL2	500743.4	2614500.65	11/22/2011	Intermediate	ND
GP-T92-004	LL2	500743.4	2614500.65	11/22/2011	Intermediate	ND
GP-T92-004	LL2	500743.4	2614500.65	11/22/2011	Intermediate	0.14 J
GP-T92-004	LL2	500743.4	2614500.65	11/22/2011	Intermediate	ND
GP-T92-005	LL2	500922.68	2614970.76	11/22/2011	Shallow	ND

Table 3-1
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T92-005	LL2	500922.68	2614970.76	11/22/2011	Shallow	ND
GP-T92-005	LL2	500922.68	2614970.76	11/22/2011	Shallow	ND
GP-T92-005	LL2	500922.68	2614970.76	11/22/2011	Shallow	ND
GP-T92-005	LL2	500922.68	2614970.76	11/22/2011	Intermediate	ND
GP-T92-005	LL2	500922.68	2614970.76	11/22/2011	Intermediate	ND
GP-T92-006	LL2	501097.44	2615433.06	11/28/2011	Shallow	0.11 J
GP-T92-006	LL2	501097.44	2615433.06	11/28/2011	Shallow	0.58
GP-T92-006	LL2	501097.44	2615433.06	11/28/2011	Shallow	ND
GP-T92-006	LL2	501097.44	2615433.06	11/28/2011	Shallow	0.3 J
GP-T92-006	LL2	501097.44	2615433.06	11/28/2011	Intermediate	2.5
GP-T92-006	LL2	501097.44	2615433.06	11/28/2011	Intermediate	0.82
GP-T92-006	LL2	501097.44	2615433.06	11/28/2011	Intermediate	5
GP-T93-002	LL2	499166.3	2614190.53	12/9/2011	Shallow	0.11 J
GP-T93-002	LL2	499166.3	2614190.53	12/9/2011	Shallow	ND
GP-T93-002	LL2	499166.3	2614190.53	12/9/2011	Shallow	ND
GP-T93-002	LL2	499166.3	2614190.53	12/9/2011	Shallow	0.063 J
GP-T93-002	LL2	499166.3	2614190.53	12/9/2011	Intermediate	0.055 J
GP-T93-002	LL2	499166.3	2614190.53	12/9/2011	Intermediate	ND
GP-T93-002	LL2	499166.3	2614190.53	12/9/2011	Intermediate	ND
GP-T93-002	LL2	499166.3	2614190.53	12/9/2011	Intermediate	ND
GP-T93-006	LL2	499998.56	2615994.3	12/9/2011	Shallow	0.099 J
GP-T93-006	LL2	499998.56	2615994.3	12/9/2011	Shallow	0.091 J
GP-T93-006	LL2	499998.56	2615994.3	12/9/2011	Shallow	0.11 J
GP-T93-006	LL2	499998.56	2615994.3	12/9/2011	Shallow	0.081 J
GP-T93-006	LL2	499998.56	2615994.3	12/9/2011	Intermediate	0.061 J
GP-T93-006	LL2	499998.56	2615994.3	12/9/2011	Intermediate	ND
GP-T93-007	LL2	500224.58	2616446.93	12/9/2011	Shallow	0.96
GP-T93-007	LL2	500224.58	2616446.93	12/9/2011	Shallow	29
GP-T93-007	LL2	500224.58	2616446.93	12/9/2011	Shallow	0.13 J
GP-T93-007	LL2	500224.58	2616446.93	12/9/2011	Intermediate	0.24 J
GP-T93-007	LL2	500224.58	2616446.93	12/9/2011	Intermediate	0.15 J
GP-T93-007	LL2	500224.58	2616446.93	12/9/2011	Intermediate	0.11 J
GP-T94-005	LL2	498023.96	2617188.65	12/9/2011	Shallow	0.057 J
GP-T94-005	LL2	498023.96	2617188.65	12/9/2011	Shallow	0.055 J
GP-T94-005	LL2	498023.96	2617188.65	12/9/2011	Shallow	ND
GP-T94-005	LL2	498023.96	2617188.65	12/9/2011	Shallow	ND
GP-T94-005	LL2	498023.96	2617188.65	12/9/2011	Intermediate	ND
GP-T94-005	LL2	498023.96	2617188.65	12/9/2011	Intermediate	ND
GP-T94-006	LL2	498281.04	2617517.77	12/8/2011	Shallow	0.086 J
GP-T94-006	LL2	498281.04	2617517.77	12/8/2011	Shallow	3.1
GP-T94-006	LL2	498281.04	2617517.77	12/8/2011	Shallow	1.1
GP-T94-006	LL2	498281.04	2617517.77	12/8/2011	Intermediate	41
GP-T94-006	LL2	498281.04	2617517.77	12/8/2011	Intermediate	43
GP-T94-007	LL2	498615.28	2617881.7	12/8/2011	Shallow	12
GP-T94-007	LL2	498615.28	2617881.7	12/8/2011	Shallow	15
GP-T94-007	LL2	498615.28	2617881.7	12/8/2011	Shallow	27
GP-T94-007	LL2	498615.28	2617881.7	12/8/2011	Shallow	0.09 J

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T94-007	LL2	498615.28	2617881.7	12/8/2011	Intermediate	ND
GP-T94-007	LL2	498615.28	2617881.7	12/8/2011	Intermediate	0.52
GP-T94-008	LL2	498911.08	2618265.19	12/8/2011	Shallow	ND
GP-T94-008	LL2	498911.08	2618265.19	12/8/2011	Shallow	5
GP-T94-008	LL2	498911.08	2618265.19	12/8/2011	Shallow	3.9
GP-T94-008	LL2	498911.08	2618265.19	12/8/2011	Shallow	37
GP-T94-008	LL2	498911.08	2618265.19	12/8/2011	Intermediate	ND
GP-T94-008	LL2	498911.08	2618265.19	12/8/2011	Intermediate	ND
GP-T94-009	LL2	499232.58	2618667.65	12/8/2011	Shallow	27
GP-T94-009	LL2	499232.58	2618667.65	12/8/2011	Shallow	0.069 J
GP-T94-009	LL2	499232.58	2618667.65	12/8/2011	Shallow	0.058 J
GP-T94-009	LL2	499232.58	2618667.65	12/8/2011	Intermediate	0.16 J
GP-T94-009	LL2	499232.58	2618667.65	12/8/2011	Intermediate	0.2 J
GP-T94-009	LL2	499232.58	2618667.65	12/8/2011	Intermediate	0.24 J
GP-T94-009	LL2	499232.58	2618667.65	12/8/2011	Intermediate	0.31 J
GP-T94-010	LL2	499519.66	2619030.22	12/7/2011	Shallow	0.056 J
GP-T94-010	LL2	499519.66	2619030.22	12/7/2011	Shallow	ND
GP-T94-010	LL2	499519.66	2619030.22	12/7/2011	Intermediate	ND
GP-T94-010	LL2	499519.66	2619030.22	12/7/2011	Intermediate	ND
GP-T94-010	LL2	499519.66	2619030.22	12/7/2011	Intermediate	0.11 J
GP-T94-010	LL2	499519.66	2619030.22	12/7/2011	Intermediate	ND
GP-T94-011	LL2	499857.27	2619432.25	12/7/2011	Shallow	0.079 J
GP-T94-011	LL2	499857.27	2619432.25	12/7/2011	Shallow	0.3 J
GP-T94-011	LL2	499857.27	2619432.25	12/7/2011	Shallow	2.7
GP-T94-011	LL2	499857.27	2619432.25	12/7/2011	Intermediate	0.73
GP-T94-011	LL2	499857.27	2619432.25	12/7/2011	Intermediate	1.1
GP-T94-011	LL2	499857.27	2619432.25	12/7/2011	Intermediate	1.2
GP-T94-012	LL2	500166.14	2619846.16	12/7/2011	Shallow	0.065 J
GP-T94-012	LL2	500166.14	2619846.16	12/7/2011	Shallow	0.1 J
GP-T94-012	LL2	500166.14	2619846.16	12/7/2011	Intermediate	0.072 J
GP-T94-012	LL2	500166.14	2619846.16	12/7/2011	Intermediate	ND
GP-T94-012	LL2	500166.14	2619846.16	12/7/2011	Intermediate	ND
GP-T94-012	LL2	500166.14	2619846.16	12/7/2011	Intermediate	0.18 J
GP-T94-013	LL2	500489.26	2620255.19	12/7/2011	Shallow	ND
GP-T94-013	LL2	500489.26	2620255.19	12/7/2011	Intermediate	ND
GP-T94-013	LL2	500489.26	2620255.19	12/7/2011	Intermediate	ND
GP-T94-013	LL2	500489.26	2620255.19	12/7/2011	Intermediate	ND
GP-T94-013	LL2	500489.26	2620255.19	12/7/2011	Intermediate	ND
GP-T94-014	LL2	500812.2	2620615.31	12/6/2011	Shallow	ND
GP-T94-014	LL2	500812.2	2620615.31	12/6/2011	Shallow	1.8 J
GP-T94-014	LL2	500812.2	2620615.31	12/6/2011	Shallow	0.21 J
GP-T94-014	LL2	500812.2	2620615.31	12/6/2011	Intermediate	ND
GP-T94-014	LL2	500812.2	2620615.31	12/6/2011	Intermediate	0.17 J
GP-T94-014	LL2	500812.2	2620615.31	12/6/2011	Intermediate	ND
GP-T94-014	LL2	500812.2	2620615.31	12/6/2011	Intermediate	0.85
GP-T94-015	LL2	500130.16	2620354.59	1/27/2012	Shallow	ND
GP-T94-015	LL2	500130.16	2620354.59	1/27/2012	Shallow	0.15 J

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T94-015	LL2	500130.16	2620354.59	1/27/2012	Shallow	0.81
GP-T94-015	LL2	500130.16	2620354.59	1/27/2012	Intermediate	0.67
GP-T94-015	LL2	500130.16	2620354.59	1/27/2012	Intermediate	0.5
GP-T94-016	LL2	499787.57	2620997.67	1/27/2012	Shallow	1.9
GP-T94-016	LL2	499787.57	2620997.67	1/27/2012	Shallow	0.078 J
GP-T94-016	LL2	499787.57	2620997.67	1/27/2012	Shallow	0.057 J
GP-T94-016	LL2	499787.57	2620997.67	1/27/2012	Intermediate	0.85
GP-T94-016	LL2	499787.57	2620997.67	1/27/2012	Intermediate	0.17 J
GP-T94-017	LL2	499655.85	2620682.7	2/28/2012	Shallow	0.25 J
GP-T94-017	LL2	499655.85	2620682.7	2/28/2012	Shallow	0.9
GP-T94-017	LL2	499655.85	2620682.7	2/28/2012	Shallow	0.52
GP-T94-017	LL2	499655.85	2620682.7	2/28/2012	Shallow	0.17 J
GP-T94-017	LL2	499655.85	2620682.7	2/28/2012	Intermediate	0.76
GP-T94-017	LL2	499655.85	2620682.7	2/28/2012	Intermediate	0.13 J
GP-T94-017	LL2	499655.85	2620682.7	2/28/2012	Intermediate	0.27 J
GP-T94-018	LL2	500374.83	2619944.75	2/29/2012	Shallow	2.9
GP-T94-018	LL2	500374.83	2619944.75	2/29/2012	Shallow	0.43
GP-T94-018	LL2	500374.83	2619944.75	2/29/2012	Shallow	0.71
GP-T94-018	LL2	500374.83	2619944.75	2/29/2012	Shallow	ND
GP-T94-018	LL2	500374.83	2619944.75	2/29/2012	Intermediate	ND
GP-T94-018	LL2	500374.83	2619944.75	2/29/2012	Intermediate	0.065 J
GP-T94-018	LL2	500374.83	2619944.75	2/29/2012	Intermediate	ND
GP-T94-018	LL2	500374.83	2619944.75	2/29/2012	Intermediate	0.19 J
GP-T94-019	LL2	499156.33	2620047.08	2/29/2012	Shallow	0.22 J
GP-T94-019	LL2	499156.33	2620047.08	2/29/2012	Shallow	0.2 J
GP-T94-019	LL2	499156.33	2620047.08	2/29/2012	Shallow	0.36 J
GP-T94-019	LL2	499156.33	2620047.08	2/29/2012	Intermediate	0.46
GP-T94-019	LL2	499156.33	2620047.08	2/29/2012	Intermediate	1.3
GP-T95-001	LL2	496329.34	2618394.04	12/2/2011	Shallow	0.071 J
GP-T95-001	LL2	496329.34	2618394.04	12/2/2011	Shallow	0.064 J
GP-T95-001	LL2	496329.34	2618394.04	12/2/2011	Intermediate	ND
GP-T95-001	LL2	496329.34	2618394.04	12/2/2011	Intermediate	0.085 J
GP-T95-001	LL2	496329.34	2618394.04	12/2/2011	Intermediate	0.45
GP-T95-002	LL2	496657.76	2618712.63	12/2/2011	Shallow	0.37 J
GP-T95-002	LL2	496657.76	2618712.63	12/2/2011	Shallow	29
GP-T95-002	LL2	496657.76	2618712.63	12/2/2011	Shallow	51
GP-T95-002	LL2	496657.76	2618712.63	12/2/2011	Intermediate	0.28 J
GP-T95-002	LL2	496657.76	2618712.63	12/2/2011	Intermediate	6.4
GP-T95-002	LL2	496657.76	2618712.63	12/2/2011	Intermediate	72
GP-T95-002	LL2	496657.76	2618712.63	12/1/2011	Intermediate	0.052 J
GP-T95-003	LL2	496988.7	2619108.96	12/1/2011	Shallow	1.5
GP-T95-003	LL2	496988.7	2619108.96	12/1/2011	Shallow	3.2
GP-T95-003	LL2	496988.7	2619108.96	12/1/2011	Shallow	40
GP-T95-003	LL2	496988.7	2619108.96	12/1/2011	Intermediate	0.13 J
GP-T95-003	LL2	496988.7	2619108.96	12/1/2011	Intermediate	0.067 J
GP-T95-004	LL2	497383.9	2619468.67	12/5/2011	Shallow	0.17 J
GP-T95-004	LL2	497383.9	2619468.67	12/5/2011	Shallow	0.093 J

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T95-004	LL2	497383.9	2619468.67	12/5/2011	Shallow	11
GP-T95-004	LL2	497383.9	2619468.67	12/5/2011	Intermediate	0.2 J
GP-T95-004	LL2	497383.9	2619468.67	12/5/2011	Intermediate	1.8
GP-T95-004	LL2	497383.9	2619468.67	12/5/2011	Intermediate	4.5
GP-T95-005	LL2	497714.19	2619835.81	12/5/2011	Shallow	0.079 J
GP-T95-005	LL2	497714.19	2619835.81	12/5/2011	Shallow	1.7
GP-T95-005	LL2	497714.19	2619835.81	12/5/2011	Shallow	ND
GP-T95-005	LL2	497714.19	2619835.81	12/5/2011	Intermediate	0.098 J
GP-T95-005	LL2	497714.19	2619835.81	12/5/2011	Intermediate	4.8
GP-T95-006	LL2	498033.36	2620190.14	12/2/2011	Shallow	0.63
GP-T95-006	LL2	498033.36	2620190.14	12/2/2011	Shallow	0.072 J
GP-T95-006	LL2	498033.36	2620190.14	12/2/2011	Intermediate	0.09 J
GP-T95-006	LL2	498033.36	2620190.14	12/2/2011	Intermediate	1
GP-T95-006	LL2	498033.36	2620190.14	12/2/2011	Intermediate	5.8
GP-T95-007	LL2	498517.42	2620551.79	12/5/2011	Shallow	0.11 J
GP-T95-007	LL2	498517.42	2620551.79	12/5/2011	Shallow	0.097 J
GP-T95-007	LL2	498517.42	2620551.79	12/5/2011	Shallow	3.2
GP-T95-007	LL2	498517.42	2620551.79	12/5/2011	Shallow	3.1
GP-T95-007	LL2	498517.42	2620551.79	12/5/2011	Intermediate	ND
GP-T95-007	LL2	498517.42	2620551.79	12/5/2011	Intermediate	0.058 J
GP-T95-008	LL2	498718.77	2620911.94	12/5/2011	Shallow	0.13 J
GP-T95-008	LL2	498718.77	2620911.94	12/5/2011	Shallow	0.29 J
GP-T95-008	LL2	498718.77	2620911.94	12/5/2011	Shallow	0.55
GP-T95-008	LL2	498718.77	2620911.94	12/5/2011	Intermediate	ND
GP-T95-008	LL2	498718.77	2620911.94	12/5/2011	Intermediate	ND
GP-T95-009	LL2	499093.52	2621340.98	12/6/2011	Shallow	0.082 J
GP-T95-009	LL2	499093.52	2621340.98	12/6/2011	Shallow	0.06 J
GP-T95-009	LL2	499093.52	2621340.98	12/6/2011	Shallow	0.62 J
GP-T95-009	LL2	499093.52	2621340.98	12/6/2011	Shallow	0.062 J
GP-T95-009	LL2	499093.52	2621340.98	12/6/2011	Intermediate	ND
GP-T95-009	LL2	499093.52	2621340.98	12/6/2011	Intermediate	1.1 J
GP-T95-010	LL2	499417.44	2621666.24	12/6/2011	Shallow	0.16 J
GP-T95-010	LL2	499417.44	2621666.24	12/6/2011	Shallow	0.099 J
GP-T95-010	LL2	499417.44	2621666.24	12/6/2011	Shallow	0.084 J
GP-T95-010	LL2	499417.44	2621666.24	12/6/2011	Shallow	ND
GP-T95-010	LL2	499417.44	2621666.24	12/6/2011	Intermediate	1.8
GP-T95-010	LL2	499417.44	2621666.24	12/6/2011	Intermediate	0.49
GP-T95-011	LL2	499765.7	2621980.52	12/6/2011	Shallow	0.089 J
GP-T95-011	LL2	499765.7	2621980.52	12/6/2011	Shallow	ND
GP-T95-011	LL2	499765.7	2621980.52	12/6/2011	Shallow	0.049 J
GP-T95-011	LL2	499765.7	2621980.52	12/6/2011	Shallow	0.11 J
GP-T95-011	LL2	499765.7	2621980.52	12/6/2011	Intermediate	0.062 J
GP-T95-011	LL2	499765.7	2621980.52	12/6/2011	Intermediate	0.048 J
GP-T95-012	LL2	498780.54	2621848.32	1/27/2012	Shallow	0.11 J
GP-T95-012	LL2	498780.54	2621848.32	1/27/2012	Shallow	ND
GP-T95-012	LL2	498780.54	2621848.32	1/27/2012	Shallow	0.68
GP-T95-012	LL2	498780.54	2621848.32	1/27/2012	Intermediate	0.057 J

Table 3-1
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T95-012	LL2	498780.54	2621848.32	1/27/2012	Intermediate	0.89
GP-T95-013	LL2	498703.66	2621424.97	2/28/2012	Shallow	ND
GP-T95-013	LL2	498703.66	2621424.97	2/28/2012	Shallow	1.9
GP-T95-013	LL2	498703.66	2621424.97	2/28/2012	Shallow	2.1
GP-T95-013	LL2	498703.66	2621424.97	2/28/2012	Shallow	0.48
GP-T95-013	LL2	498703.66	2621424.97	2/28/2012	Shallow	3.2
GP-T95-013	LL2	498703.66	2621424.97	2/28/2012	Intermediate	0.058 J
GP-T95-013	LL2	498703.66	2621424.97	2/28/2012	Intermediate	0.71
GP-T96-001	LL2	495874.85	2620547.16	12/1/2011	Shallow	ND
GP-T96-001	LL2	495874.85	2620547.16	12/1/2011	Shallow	0.83
GP-T96-001	LL2	495874.85	2620547.16	12/1/2011	Intermediate	0.52
GP-T96-001	LL2	495874.85	2620547.16	12/1/2011	Intermediate	38
GP-T96-001	LL2	495874.85	2620547.16	12/1/2011	Intermediate	ND
GP-T96-002	LL2	496188.94	2620937.51	12/1/2011	Shallow	ND
GP-T96-002	LL2	496188.94	2620937.51	12/1/2011	Intermediate	ND
GP-T96-002	LL2	496188.94	2620937.51	12/1/2011	Intermediate	6.8
GP-T96-002	LL2	496188.94	2620937.51	12/1/2011	Intermediate	6
GP-T96-002	LL2	496188.94	2620937.51	12/1/2011	Intermediate	0.061 J
GP-T96-003	LL2	496480.74	2621313.53	11/30/2011	Shallow	ND
GP-T96-003	LL2	496480.74	2621313.53	11/30/2011	Shallow	ND
GP-T96-003	LL2	496480.74	2621313.53	11/30/2011	Shallow	ND
GP-T96-003	LL2	496480.74	2621313.53	11/30/2011	Intermediate	5
GP-T96-003	LL2	496480.74	2621313.53	11/30/2011	Intermediate	0.3 J
GP-T96-004	LL2	496774.65	2621732.61	12/1/2011	Shallow	1.3
GP-T96-004	LL2	496774.65	2621732.61	12/1/2011	Shallow	0.072 J
GP-T96-004	LL2	496774.65	2621732.61	12/1/2011	Shallow	ND
GP-T96-004	LL2	496774.65	2621732.61	12/1/2011	Intermediate	ND
GP-T96-004	LL2	496774.65	2621732.61	12/1/2011	Intermediate	ND
GP-T96-004	LL2	496774.65	2621732.61	12/1/2011	Intermediate	0.13 J
GP-T96-005	LL2	497114.6	2622106.7	11/30/2011	Shallow	0.36 J
GP-T96-005	LL2	497114.6	2622106.7	11/30/2011	Shallow	ND
GP-T96-005	LL2	497114.6	2622106.7	11/30/2011	Intermediate	1.4
GP-T96-005	LL2	497114.6	2622106.7	11/30/2011	Intermediate	1.2
GP-T96-006	LL2	497459.2	2622528.02	11/30/2011	Shallow	0.056 J
GP-T96-006	LL2	497459.2	2622528.02	11/30/2011	Shallow	0.33 J
GP-T96-006	LL2	497459.2	2622528.02	11/30/2011	Shallow	0.2 J
GP-T96-006	LL2	497459.2	2622528.02	11/30/2011	Intermediate	1.9
GP-T96-006	LL2	497459.2	2622528.02	11/30/2011	Intermediate	0.47
GP-T96-007	LL2	498084.51	2622444.69	11/30/2011	Shallow	0.32 J
GP-T96-007	LL2	498084.51	2622444.69	11/30/2011	Shallow	0.27 J
GP-T96-007	LL2	498084.51	2622444.69	11/30/2011	Shallow	0.11 J
GP-T96-007	LL2	498084.51	2622444.69	11/30/2011	Shallow	ND
GP-T96-007	LL2	498084.51	2622444.69	11/30/2011	Intermediate	ND
GP-T96-007	LL2	498084.51	2622444.69	11/30/2011	Intermediate	0.37 J
GP-T96-008	LL2	497778.29	2622909.72	11/30/2011	Shallow	0.087 J
GP-T96-008	LL2	497778.29	2622909.72	11/30/2011	Shallow	0.098 J
GP-T96-008	LL2	497778.29	2622909.72	11/30/2011	Shallow	0.06 J

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T96-008	LL2	497778.29	2622909.72	11/30/2011	Intermediate	0.8
GP-T96-008	LL2	497778.29	2622909.72	11/30/2011	Intermediate	1.1
MW-04A	LL2	506256.76	2612041.93	4/2/2007	Intermediate	ND
MW-04B	LL2	506259.36	2612051.43	3/10/2011	Shallow	5.59
MW-05A	LL2	507097.62	2613044.09	6/8/2012	Intermediate	ND
MW-05B	LL2	507097.47	2613053.87	6/8/2012	Shallow	0.097 J
MW-144A	LL2	503570.97	2614012.25	6/7/2012	Intermediate	44
MW-144E	LL2	503573.1	2614019.84	6/7/2012	Intermediate	57
MW-145A	LL2	500652.84	2617407.83	6/7/2012	Intermediate	4.9
MW-145B	LL2	500656.14	2617395.841	12/05/2012	Shallow	50
MW-145E	LL2	500652.99	2617414.44	6/7/2012	Intermediate	110
MW-146A	LL2	494899.38	2618871.66	6/7/2012	Intermediate	ND
MW-146B	LL2	494899.37	2618871.66	6/7/2012	Shallow	ND
MW-147A	LL2	494474.75	2620042.45	8/23/2012	Intermediate	ND
MW-147B	LL2	494471.71	2620045.18	8/23/2012	Shallow	ND
MW-147D	LL2	494467.74	2620047.88	8/23/2012	Intermediate	ND
MW-162A	LL2	498773.02	2618293.12	12/05/2012	Intermediate	66
MW-163A	LL2	498952.862	2618961.892	12/05/2012	Intermediate	14
MW-164A	LL2	498294.974	2617493.857	12/05/2012	Intermediate	76
MW-165B	LL2	498609.918	2617933.415	12/05/2012	Shallow	170
MW-166A	LL2	496609.561	2618657.286	12/05/2012	Intermediate	44
MW-166B	LL2	496616.201	2618661.424	12/05/2012	Shallow	2.1
MW-167A	LL2	497423.398	2619420.511	12/05/2012	Intermediate	31
MW-167B	LL2	497426.555	2619428.964	12/05/2012	Shallow	17
MW-168A	LL2	498009.89	2620186.362	12/05/2012	Intermediate	8.1
MW-168B	LL2	498011.714	2620178.267	12/05/2012	Shallow	0.31 J
MW-169A	LL2	495501.598	2619932.754	12/05/2012	Intermediate	10
MW-169B	LL2	495502.951	2619942.569	12/05/2012	Shallow	51
MW-170A	LL2	496442.892	2621225.191	12/05/2012	Intermediate	5.8
MW-171A	LL2	501881.314	2615668.935	12/05/2012	Intermediate	71
MW-171B	LL2	501881.095	2615662.16	12/05/2012	Shallow	100
MW-174A	LL2	497380.635	2622869.283	12/05/2012	Intermediate	0.14 J
MW-174B	LL2	497375.022	2622865.16	12/05/2012	Shallow	1.2
MW-20A	LL2	493189.94	2616622.54	3/2/2012	Intermediate	ND
MW-20B	LL2	493191.47	2616633.42	3/2/2012	Shallow	ND
MW-20C	LL2	493187.6	2616611.42	3/2/2012	Shallow	ND
MW-28A	LL2	502242.7	2612951.02	5/23/2012	Intermediate	ND
MW-28B	LL2	502242.25	2612936	5/23/2012	Shallow	1.4
MW-28D	LL2	502242.92	2612969.59	5/23/2012	Intermediate	ND
MW-29A	LL2	498383.1	2614469.83	5/23/2012	Intermediate	2.6
MW-29B	LL2	498382.36	2614460.97	5/23/2012	Shallow	ND
MW-31A	LL2	503233.69	2617943.94	11/10/2011	Intermediate	ND
MW-31B	LL2	503238.63	2617935.16	11/10/2011	Shallow	2.2
MW-31B	LL2	503238.63	2617935.16	11/10/2011	Shallow	1.7
MW-32A	LL2	499062.26	2619697.25	5/24/2012	Intermediate	7.1
MW-32B	LL2	499069.07	2619696.91	5/24/2012	Shallow	7.6
MW-32D	LL2	499055.62	2619697.54	5/24/2012	Intermediate	6.1

Table 3-1
RDX in Monitoring Wells and Direct-Push Samples (2008-2012)
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
MW-65A	LL2	506090.52	2613203.05	3/10/2011	Intermediate	ND
MW-65A	LL2	506090.52	2613203.05	3/10/2011	Intermediate	ND
MW-65B	LL2	506091.22	2613193.3	6/8/2012	Shallow	19
MW-71B (Abandoned)	LL2	506090.26	2613382.61	3/10/2011	Shallow	48.6
MW-82A	LL2	493318.05	2619288.64	3/2/2012	Intermediate	ND
MW-82B	LL2	493325.46	2619284.94	3/2/2012	Shallow	ND
MW-82D	LL2	493310.9	2619293	3/2/2012	Intermediate	ND
MW-83A	LL2	495274.66	2621924.07	8/23/2012	Intermediate	0.33 J
MW-83B	LL2	495302.77	2621921.78	8/23/2012	Shallow	0.13 J
MW-83D	LL2	495288.85	2621922.97	8/23/2012	Intermediate	ND
MW-84A	LL2	495685.5	2624277.77	8/24/2012	Intermediate	0.23 J
MW-84A	LL2	495685.5	2624277.77	8/24/2012	Intermediate	0.24 J
MW-84B	LL2	495712.89	2624272.03	8/24/2012	Shallow	ND
MW-84D	LL2	495695.58	2624275.75	8/24/2012	Intermediate	ND
MW-94A	LL2	496428.72	2617023.16	6/7/2012	Intermediate	ND
MW-94B	LL2	496434.49	2617023.06	6/7/2012	Shallow	ND
MW-94D (Abandoned)	LL2	496422.55	2617023.46	6/7/2012	Intermediate	ND
MW-95A	LL2	494508.64	2617552.81	8/23/2012	Intermediate	ND
MW-95B	LL2	494508	2617546.97	8/23/2012	Shallow	ND
MW-95D	LL2	494509.12	2617558.45	8/23/2012	Intermediate	0.098 J
MW-96A	LL2	493387.72	2621468.22	3/2/2012	Intermediate	ND
MW-96B	LL2	493387.79	2621468.22	3/2/2012	Shallow	ND
MW-96D	LL2	493387.89	2621476.24	3/2/2012	Intermediate	ND
MW-97A	LL2	493492.82	2623938.03	3/1/2012	Intermediate	ND
MW-97B	LL2	493492.44	2623932.69	3/1/2012	Shallow	ND
MW-97D	LL2	493493.12	2623943.47	3/1/2012	Intermediate	ND
MW-118A	LL2/LL3	496207.69	2625890.44	8/23/2012	Intermediate	0.69
GP-MW-174B (MW-172)	LL3	497428.549	2625763.501	10/17/2012	Shallow	0.38 J
GP-MW-174B (MW-172)	LL3	497428.549	2625763.501	10/17/2012	Shallow	0.4
GP-MW-174B (MW-172)	LL3	497428.549	2625763.501	10/17/2012	Intermediate	0.18 J
GP-MW-174B (MW-172)	LL3	497428.549	2625763.501	10/17/2012	Intermediate	0.13 J
GP-MW-174B (MW-172)	LL3	497428.549	2625763.501	10/17/2012	Intermediate	1.2
GP-MW-175	LL3	501101.536	2622690.122	10/17/2012	Shallow	0.51
GP-MW-175	LL3	501101.536	2622690.122	10/17/2012	Shallow	1
GP-MW-175	LL3	501101.536	2622690.122	10/17/2012	Shallow	3.9
GP-MW-175	LL3	501101.536	2622690.122	10/17/2012	Intermediate	4.6
GP-MW-175	LL3	501101.536	2622690.122	10/17/2012	Intermediate	5
GP-MW-175	LL3	501101.536	2622690.122	10/17/2012	Intermediate	ND
GP-MW-175	LL3	501101.536	2622690.122	10/17/2012	Intermediate	0.47
GP-T75-001	LL3	504421.935	2619749.723	4/16/2010	Shallow	2.2
GP-T75-001	LL3	504421.935	2619749.723	4/16/2010	Shallow	1.5
GP-T75-001	LL3	504421.935	2619749.723	4/16/2010	Intermediate	9.5
GP-T75-001	LL3	504421.935	2619749.723	4/16/2010	Intermediate	4.6
GP-T75-001	LL3	504421.935	2619749.723	4/16/2010	Intermediate	0.11 J
GP-T75-001	LL3	504421.935	2619749.723	4/16/2010	Intermediate	0.23
GP-T75-002	LL3	504432.795	2620165.965	4/15/2010	Shallow	6
GP-T75-002	LL3	504432.795	2620165.965	4/15/2010	Shallow	23

Table 3-1
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T75-002	LL3	504432.795	2620165.965	4/15/2010	Intermediate	11
GP-T75-002	LL3	504432.795	2620165.965	4/15/2010	Intermediate	6.3
GP-T75-002	LL3	504432.795	2620165.965	4/15/2010	Intermediate	0.1 J
GP-T75-002	LL3	504432.795	2620165.965	4/15/2010	Intermediate	0.045 J
GP-T75-003	LL3	504449.197	2620630.744	4/15/2010	Shallow	2.2
GP-T75-003	LL3	504449.197	2620630.744	4/15/2010	Shallow	13
GP-T75-003	LL3	504449.197	2620630.744	4/15/2010	Intermediate	2.8
GP-T75-003	LL3	504449.197	2620630.744	4/15/2010	Intermediate	2.7
GP-T75-003	LL3	504449.197	2620630.744	4/15/2010	Intermediate	0.092 J
GP-T75-004	LL3	504403.322	2619340.827	6/30/2010	Shallow	ND
GP-T75-004	LL3	504403.322	2619340.827	6/30/2010	Shallow	0.17 J
GP-T75-004	LL3	504403.322	2619340.827	6/30/2010	Shallow	0.53
GP-T75-004	LL3	504403.322	2619340.827	6/30/2010	Intermediate	0.68
GP-T75-004	LL3	504403.322	2619340.827	6/30/2010	Intermediate	ND
GP-T75-004	LL3	504403.322	2619340.827	6/30/2010	Intermediate	ND
GP-T75-005	LL3	504468.957	2621073.187	6/30/2010	Shallow	0.05 J
GP-T75-005	LL3	504468.957	2621073.187	6/30/2010	Shallow	ND
GP-T75-005	LL3	504468.957	2621073.187	6/30/2010	Shallow	ND
GP-T75-005	LL3	504468.957	2621073.187	6/30/2010	Intermediate	ND
GP-T75-005	LL3	504468.957	2621073.187	7/1/2010	Intermediate	ND
GP-T75-005	LL3	504468.957	2621073.187	7/1/2010	Intermediate	0.054 J
GP-T76-001	LL3	502703.393	2620984.625	4/16/2010	Shallow	3.5
GP-T76-001	LL3	502703.393	2620984.625	4/16/2010	Shallow	6.7
GP-T76-001	LL3	502703.393	2620984.625	4/16/2010	Intermediate	0.31 J
GP-T76-001	LL3	502703.393	2620984.625	4/16/2010	Intermediate	0.073 J
GP-T76-001	LL3	502703.393	2620984.625	4/16/2010	Intermediate	3
GP-T76-001	LL3	502703.393	2620984.625	4/16/2010	Intermediate	0.56
GP-T76-002	LL3	502722.876	2621347.692	4/19/2010	Shallow	10
GP-T76-002	LL3	502722.876	2621347.692	4/19/2010	Shallow	2.9
GP-T76-002	LL3	502722.876	2621347.692	4/19/2010	Shallow	3.8
GP-T76-002	LL3	502722.876	2621347.692	4/16/2010	Intermediate	ND
GP-T76-002	LL3	502722.876	2621347.692	4/16/2010	Intermediate	0.059 J
GP-T76-002	LL3	502722.876	2621347.692	4/16/2010	Intermediate	ND
GP-T76-003	LL3	502772.934	2621869.897	4/16/2010	Shallow	0.83
GP-T76-003	LL3	502772.934	2621869.897	4/16/2010	Shallow	1.3
GP-T76-003	LL3	502772.934	2621869.897	4/16/2010	Shallow	2.3
GP-T76-003	LL3	502772.934	2621869.897	4/16/2010	Intermediate	7
GP-T76-003	LL3	502772.934	2621869.897	4/16/2010	Intermediate	0.038 J
GP-T76-003	LL3	502772.934	2621869.897	4/16/2010	Intermediate	7.5
GP-T76-004	LL3	503043.104	2622153.675	4/16/2010	Shallow	0.079 J
GP-T76-004	LL3	503043.104	2622153.675	4/16/2010	Shallow	0.063 J
GP-T76-004	LL3	503043.104	2622153.675	4/16/2010	Shallow	0.27 J
GP-T76-004	LL3	503043.104	2622153.675	4/16/2010	Shallow	ND
GP-T76-004	LL3	503043.104	2622153.675	4/15/2010	Intermediate	1.8 J
GP-T76-004	LL3	503043.104	2622153.675	4/15/2010	Intermediate	1.5 J
GP-T76-004	LL3	503043.104	2622153.675	4/15/2010	Intermediate	ND
GP-T76-005	LL3	503385.326	2622409.452	4/19/2010	Shallow	ND

Table 3-1
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T76-005	LL3	503385.326	2622409.452	4/19/2010	Shallow	ND
GP-T76-005	LL3	503385.326	2622409.452	4/19/2010	Intermediate	ND
GP-T76-005	LL3	503385.326	2622409.452	4/19/2010	Intermediate	ND
GP-T76-005	LL3	503385.326	2622409.452	4/19/2010	Intermediate	0.088 J
GP-T76-005	LL3	503385.326	2622409.452	4/19/2010	Intermediate	ND
GP-T76-006	LL3	502670.326	2620654.912	7/2/2010	Shallow	ND
GP-T76-006	LL3	502670.326	2620654.912	7/2/2010	Shallow	0.65 J
GP-T76-006	LL3	502670.326	2620654.912	7/2/2010	Intermediate	0.078 J
GP-T76-006	LL3	502670.326	2620654.912	7/1/2010	Intermediate	3.1
GP-T76-006	LL3	502670.326	2620654.912	7/1/2010	Intermediate	1 J
GP-T77-001	LL3	501499.478	2621839.213	6/11/2010	Shallow	2.5
GP-T77-001	LL3	501499.478	2621839.213	6/11/2010	Shallow	2.1
GP-T77-001	LL3	501499.478	2621839.213	6/11/2010	Intermediate	0.16 J
GP-T77-001	LL3	501499.478	2621839.213	6/11/2010	Intermediate	0.17 J
GP-T77-001	LL3	501499.478	2621839.213	6/11/2010	Intermediate	1.1 J
GP-T77-001	LL3	501499.478	2621839.213	6/10/2010	Intermediate	0.57 J
GP-T77-002	LL3	501780.572	2622117.619	6/9/2010	Shallow	0.45
GP-T77-002	LL3	501780.572	2622117.619	6/9/2010	Shallow	4.7
GP-T77-002	LL3	501780.572	2622117.619	6/9/2010	Intermediate	0.079 J
GP-T77-002	LL3	501780.572	2622117.619	6/9/2010	Intermediate	5
GP-T77-002	LL3	501780.572	2622117.619	6/9/2010	Intermediate	2.6
GP-T77-003	LL3	502087.429	2622404.857	6/9/2010	Shallow	0.59
GP-T77-003	LL3	502087.429	2622404.857	6/9/2010	Shallow	1.9
GP-T77-003	LL3	502087.429	2622404.857	6/9/2010	Intermediate	12
GP-T77-003	LL3	502087.429	2622404.857	6/9/2010	Intermediate	7.7
GP-T77-003	LL3	502087.429	2622404.857	6/9/2010	Intermediate	ND
GP-T77-004	LL3	502392.295	2622715.226	4/28/2010	Shallow	ND
GP-T77-004	LL3	502392.295	2622715.226	4/28/2010	Shallow	0.13 J
GP-T77-004	LL3	502392.295	2622715.226	4/28/2010	Shallow	0.21
GP-T77-004	LL3	502392.295	2622715.226	4/28/2010	Intermediate	ND
GP-T77-004	LL3	502392.295	2622715.226	4/28/2010	Intermediate	ND
GP-T77-004	LL3	502392.295	2622715.226	4/28/2010	Intermediate	0.55
GP-T77-005	LL3	502656.594	2623010.8	4/28/2010	Shallow	ND
GP-T77-005	LL3	502656.594	2623010.8	4/28/2010	Shallow	ND
GP-T77-005	LL3	502656.594	2623010.8	4/28/2010	Shallow	ND
GP-T77-005	LL3	502656.594	2623010.8	4/28/2010	Intermediate	ND
GP-T77-005	LL3	502656.594	2623010.8	4/28/2010	Intermediate	ND
GP-T77-005	LL3	502656.594	2623010.8	4/28/2010	Intermediate	ND
GP-T77-008	LL3	501140.05	2621640	8/17/2010	Shallow	0.49
GP-T77-008	LL3	501140.05	2621640	8/17/2010	Shallow	0.47
GP-T77-008	LL3	501140.05	2621640	8/17/2010	Intermediate	0.43
GP-T77-008	LL3	501140.05	2621640	8/17/2010	Intermediate	0.62
GP-T77-008	LL3	501140.05	2621640	8/17/2010	Intermediate	1.3 J
GP-T77-008	LL3	501140.05	2621640	8/17/2010	Intermediate	0.73
GP-T78-001	LL3	499247.034	2624247.805	6/8/2010	Shallow	0.24 J
GP-T78-001	LL3	499247.034	2624247.805	6/8/2010	Shallow	0.53
GP-T78-001	LL3	499247.034	2624247.805	6/8/2010	Shallow	2

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T78-001	LL3	499247.034	2624247.805	6/8/2010	Intermediate	1.1
GP-T78-001	LL3	499247.034	2624247.805	6/8/2010	Intermediate	ND
GP-T78-001	LL3	499247.034	2624247.805	6/8/2010	Intermediate	0.19 J
GP-T78-002	LL3	499858.239	2624220.087	6/7/2010	Shallow	0.12 J
GP-T78-002	LL3	499858.239	2624220.087	6/7/2010	Shallow	5.4
GP-T78-002	LL3	499858.239	2624220.087	6/7/2010	Intermediate	4.6
GP-T78-002	LL3	499858.239	2624220.087	6/7/2010	Intermediate	5.8
GP-T78-002	LL3	499858.239	2624220.087	6/7/2010	Intermediate	ND
GP-T78-003	LL3	500318.831	2624202.251	6/7/2010	Shallow	ND
GP-T78-003	LL3	500318.831	2624202.251	6/7/2010	Shallow	0.13 J
GP-T78-003	LL3	500318.831	2624202.251	6/7/2010	Intermediate	2.8
GP-T78-003	LL3	500318.831	2624202.251	6/4/2010	Intermediate	4.7
GP-T78-003	LL3	500318.831	2624202.251	6/4/2010	Intermediate	ND
GP-T78-004	LL3	500780.903	2624185.49	6/4/2010	Shallow	0.061 J
GP-T78-004	LL3	500780.903	2624185.49	6/4/2010	Shallow	0.26
GP-T78-004	LL3	500780.903	2624185.49	6/4/2010	Intermediate	ND
GP-T78-004	LL3	500780.903	2624185.49	6/4/2010	Intermediate	0.89
GP-T78-004	LL3	500780.903	2624185.49	6/3/2010	Intermediate	0.76
GP-T78-005	LL3	501267.036	2624164.108	6/3/2010	Shallow	0.057 J
GP-T78-005	LL3	501267.036	2624164.108	6/3/2010	Shallow	ND
GP-T78-005	LL3	501267.036	2624164.108	6/3/2010	Intermediate	ND
GP-T78-005	LL3	501267.036	2624164.108	6/3/2010	Intermediate	ND
GP-T78-005	LL3	501267.036	2624164.108	6/3/2010	Intermediate	0.88
GP-T97-001	LL3	498481.51	2626703.43	12/19/2011	Intermediate	0.066 J
GP-T97-001	LL3	498481.51	2626703.43	12/19/2011	Intermediate	0.074 J
GP-T97-001	LL3	498481.51	2626703.43	12/19/2011	Intermediate	0.075 J
GP-T97-001	LL3	498481.51	2626703.43	12/19/2011	Intermediate	0.16 J
GP-T97-001	LL3	498481.51	2626703.43	12/19/2011	Intermediate	0.11 J
GP-T97-002	LL3	498527.69	2627200.16	12/19/2011	Shallow	2.7
GP-T97-002	LL3	498527.69	2627200.16	12/19/2011	Intermediate	0.47
GP-T97-002	LL3	498527.69	2627200.16	12/19/2011	Intermediate	0.29 J
GP-T97-002	LL3	498527.69	2627200.16	12/19/2011	Intermediate	0.98
GP-T97-002	LL3	498527.69	2627200.16	12/19/2011	Intermediate	0.75
GP-T97-003	LL3	498561.22	2627675.72	12/19/2011	Shallow	ND
GP-T97-003	LL3	498561.22	2627675.72	12/19/2011	Intermediate	0.047 J
GP-T97-003	LL3	498561.22	2627675.72	12/19/2011	Intermediate	0.048 J
GP-T97-003	LL3	498561.22	2627675.72	12/19/2011	Intermediate	0.062 J
GP-T97-004	LL3	497956.34	2627006.63	12/16/2011	Shallow	0.93
GP-T97-004	LL3	497956.34	2627006.63	12/16/2011	Shallow	0.048 J
GP-T97-004	LL3	497956.34	2627006.63	12/16/2011	Intermediate	5.2
GP-T97-004	LL3	497956.34	2627006.63	12/16/2011	Intermediate	0.1 J
GP-T97-004	LL3	497956.34	2627006.63	12/16/2011	Intermediate	1.4
GP-T97-005	LL3	498042.79	2627605.62	12/16/2011	Shallow	ND
GP-T97-005	LL3	498042.79	2627605.62	12/16/2011	Shallow	0.48
GP-T97-005	LL3	498042.79	2627605.62	12/16/2011	Intermediate	ND
GP-T97-005	LL3	498042.79	2627605.62	12/16/2011	Intermediate	0.074 J
GP-T97-006	LL3	498136.56	2628312.42	12/16/2011	Shallow	0.053 J

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T97-006	LL3	498136.56	2628312.42	12/16/2011	Shallow	0.32 J
GP-T97-006	LL3	498136.56	2628312.42	12/16/2011	Intermediate	ND
GP-T97-006	LL3	498136.56	2628312.42	12/16/2011	Intermediate	ND
GP-T97-006	LL3	498136.56	2628312.42	12/16/2011	Intermediate	0.14 J
GP-T97-007	LL3	497413.36	2627972.34	12/16/2011	Shallow	ND
GP-T97-007	LL3	497413.36	2627972.34	12/16/2011	Shallow	ND
GP-T97-007	LL3	497413.36	2627972.34	12/16/2011	Intermediate	ND
GP-T97-007	LL3	497413.36	2627972.34	12/16/2011	Intermediate	0.51
GP-T97-008	LL3	497596.5	2628480.26	12/15/2011	Shallow	0.15 J
GP-T97-008	LL3	497596.5	2628480.26	12/15/2011	Intermediate	0.36 J
GP-T97-008	LL3	497596.5	2628480.26	12/15/2011	Intermediate	0.92
GP-T97-008	LL3	497596.5	2628480.26	12/15/2011	Intermediate	0.78
GP-T97-008	LL3	497596.5	2628480.26	12/15/2011	Intermediate	1
GP-T97-009	LL3	497081.91	2628800.41	12/15/2011	Shallow	1.2
GP-T97-009	LL3	497081.91	2628800.41	12/15/2011	Intermediate	1.5
GP-T97-009	LL3	497081.91	2628800.41	12/15/2011	Intermediate	1
GP-T97-009	LL3	497081.91	2628800.41	12/15/2011	Intermediate	ND
GP-T97-009	LL3	497081.91	2628800.41	12/15/2011	Intermediate	0.48
GP-T97-010	LL3	497417.77	2629037.42	12/15/2011	Shallow	0.24 J
GP-T97-010	LL3	497417.77	2629037.42	12/15/2011	Shallow	ND
GP-T97-010	LL3	497417.77	2629037.42	12/15/2011	Intermediate	ND
GP-T97-010	LL3	497417.77	2629037.42	12/15/2011	Intermediate	0.13 J
GP-T97-011	LL3	497405.79	2629544.81	12/14/2011	Shallow	0.19 J
GP-T97-011	LL3	497405.79	2629544.81	12/14/2011	Shallow	0.084 J
GP-T97-011	LL3	497405.79	2629544.81	12/14/2011	Intermediate	0.049 J
GP-T97-011	LL3	497405.79	2629544.81	12/14/2011	Intermediate	0.063 J
GP-T97-011	LL3	497405.79	2629544.81	12/14/2011	Intermediate	0.083 J
GP-T97-012	LL3	496993.89	2629286.09	12/15/2011	Shallow	0.16 J
GP-T97-012	LL3	496993.89	2629286.09	12/15/2011	Shallow	0.16 J
GP-T97-012	LL3	496993.89	2629286.09	12/15/2011	Intermediate	0.047 J
GP-T97-012	LL3	496993.89	2629286.09	12/15/2011	Intermediate	1.7
GP-T97-012	LL3	496993.89	2629286.09	12/15/2011	Intermediate	0.89
GP-T97-013	LL3	496659.01	2629437.71	12/14/2011	Shallow	0.055 J
GP-T97-013	LL3	496659.01	2629437.71	12/14/2011	Intermediate	0.41
GP-T97-013	LL3	496659.01	2629437.71	12/14/2011	Intermediate	0.094 J
GP-T97-014	LL3	496941.09	2629823	11/29/2011	Shallow	ND
GP-T97-014	LL3	496941.09	2629823	11/29/2011	Shallow	0.52
GP-T97-014	LL3	496941.09	2629823	11/29/2011	Shallow	0.068 J
GP-T97-014	LL3	496941.09	2629823	11/29/2011	Intermediate	ND
GP-T97-014	LL3	496941.09	2629823	11/29/2011	Intermediate	ND
GP-T97-014	LL3	496941.09	2629823	11/29/2011	Intermediate	ND
MW-06A	LL3	506522.12	2617375.69	4/4/2008	Intermediate	ND
MW-06B	LL3	506525.48	2617384.6	4/4/2008	Shallow	ND
MW-07A	LL3	507274.82	2618267.09	4/2/2007	Intermediate	ND
MW-07B	LL3	507276.11	2618276.52	4/2/2007	Shallow	0.215 J
MW-07B	LL3	507276.11	2618276.52	4/2/2007	Shallow	0.834 J
MW-100A	LL3	493770.41	2629718.84	3/1/2012	Intermediate	0.077 J

Table 3-1
RDX in Monitoring Wells and Direct-Push Samples (2008-2012)
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
MW-100B	LL3	493777.18	2629718.06	3/1/2012	Shallow	0.14 J
MW-100B	LL3	493777.18	2629718.06	3/1/2012	Shallow	0.16 J
MW-100D	LL3	493783.73	2629718.36	3/1/2012	Intermediate	0.093 J
MW-117A	LL3	495048	2631041.42	8/23/2012	Intermediate	0.24 J
MW-117B	LL3	495053.97	2631040.5	8/23/2012	Shallow	ND
MW-117D	LL3	495042.19	2631042.34	8/23/2012	Intermediate	0.21 J
MW-118B	LL3	496207.84	2625884.53	8/23/2012	Shallow	0.83
MW-128A	LL3	498190.8	2624836.13	5/22/2012	Intermediate	0.52 J
MW-128B	LL3	498197.84	2624838.49	5/22/2012	Shallow	1.8 J
MW-128D	LL3	498183.94	2624833.49	5/22/2012	Intermediate	0.34 J
MW-129A	LL3	496542.43	2627766.39	5/22/2012	Intermediate	0.22 J
MW-129B	LL3	496545.39	2627771.4	5/22/2012	Shallow	0.27 J
MW-129D	LL3	496536.62	2627759.96	5/22/2012	Intermediate	ND
MW-130A	LL3	496650.27	2629053.38	5/22/2012	Intermediate	0.79
MW-130B	LL3	496659.85	2629059.01	5/22/2012	Shallow	0.77
MW-130D	LL3	496641.12	2629047.82	5/22/2012	Intermediate	ND
MW-131A	LL3	496939.83	2626341.54	5/22/2012	Intermediate	3.6
MW-131B	LL3	496944.69	2626348.52	5/22/2012	Shallow	0.64
MW-131D	LL3	496933.31	2626333.42	5/22/2012	Intermediate	ND
MW-132A	LL3	497254.4	2625254.59	5/22/2012	Intermediate	1.8
MW-132B	LL3	497261.76	2625258.17	5/22/2012	Shallow	3.4
MW-132D	LL3	497247.01	2625250.89	5/22/2012	Intermediate	1.5
MW-143B	LL3	502719.77	2621339.98	6/8/2012	Shallow	6.9
MW-148A	LL3	504433.591	2620166.75	12/05/2012	Intermediate	ND
MW-148B	LL3	504425.78	2620179.92	6/8/2012	Shallow	31
MW-148B	LL3	504425.78	2620179.92	6/8/2012	Shallow	28
MW-149A	LL3	502086.76	2622398.38	6/8/2012	Intermediate	17
MW-150A	LL3	499856.55	2624201.15	6/5/2012	Intermediate	2.1
MW-150B	LL3	499864.11	2624200.78	6/5/2012	Shallow	7.2
MW-172A	LL3	497428.549	2625763.501	12/05/2012	Intermediate	3.8
MW-172B	LL3	497431.526	2625755.506	12/05/2012	Shallow	2.9
MW-173A	LL3	497957.667	2627008.041	12/05/2012	Intermediate	6.7
MW-175A	LL3	501101.536	2622690.122	12/06/2012	Intermediate	8.5
MW-175B	LL3	501098.072	2622680.348	12/06/2012	Shallow	3.6
MW-27A	LL3	508103.03	2611434.64	4/2/2007	Intermediate	ND
MW-27B	LL3	508110.54	2611427	4/2/2007	Shallow	ND
MW-30A	LL3	507064.54	2616288.05	4/3/2007	Intermediate	ND
MW-30B	LL3	507065.86	2616281.83	4/3/2007	Shallow	ND
MW-33A	LL3	502847.9	2622410.84	5/24/2012	Intermediate	0.31 J
MW-33B	LL3	502854.78	2622401.05	5/24/2012	Shallow	0.14 J
MW-33D	LL3	502856.96	2622421.53	5/24/2012	Intermediate	ND
MW-34A	LL3	498806.3	2624442.78	2/6/2009	Intermediate	0.25
MW-34B	LL3	498814.11	2624443.06	2/6/2009	Shallow	1.6
MW-35A	LL3	496323.63	2629595.75	8/23/2012	Intermediate	0.4 J
MW-35B	LL3	496329.36	2629595.84	8/23/2012	Shallow	0.22 J
MW-35B	LL3	496329.36	2629595.84	8/23/2012	Shallow	0.28 J
MW-35D	LL3	496317.09	2629595.79	8/23/2012	Intermediate	ND

Table 3-1
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
MW-66A	LL3	506026.7276	2613278.509	12/10/2007	Intermediate	0.92
MW-66B	LL3	506027.6145	2613268.319	12/10/2007	Shallow	0.98
MW-67A	LL3	506004.4759	2613306.229	12/10/2007	Intermediate	ND
MW-67B	LL3	505999.4862	2613314.552	12/10/2007	Shallow	1.5
MW-68B	LL3	506024.531	2613320.778	12/10/2007	Shallow	1.5
MW-69B	LL3	506046.742	2613341.617	12/10/2007	Shallow	47
MW-70B	LL3	506068.6278	2613362.295	12/10/2007	Shallow	42
MW-85A	LL3	494439.02	2628326.52	8/23/2012	Intermediate	0.85
MW-85A	LL3	494439.02	2628326.52	8/23/2012	Intermediate	0.91
MW-85B	LL3	494449.81	2628315.15	8/23/2012	Shallow	1.3
MW-85D	LL3	494428.02	2628338.54	8/23/2012	Intermediate	0.12 J
MW-86A	LL3	493759.73	2631939.2	3/5/2012	Intermediate	ND
MW-86B	LL3	493758.65	2631933.6	3/5/2012	Shallow	ND
MW-86B	LL3	493758.65	2631933.6	3/5/2012	Shallow	ND
MW-86D	LL3	493760.42	2631944.47	3/5/2012	Intermediate	1.3
MW-98A	LL3	493604.93	2626495.29	3/1/2012	Intermediate	ND
MW-98A	LL3	493604.93	2626495.29	3/1/2012	Intermediate	ND
MW-98B	LL3	493605.27	2626488.7	3/1/2012	Shallow	ND
MW-98D	LL3	493605.2	2626502.35	3/1/2012	Intermediate	ND
MW-99A	LL3	498780.94	2627117.43	6/7/2012	Intermediate	0.68
MW-99B	LL3	498787.92	2627118.4	6/7/2012	Shallow	1.4
MW-99D	LL3	498773.68	2627116.77	6/7/2012	Intermediate	2.7
GP-T02-06	LL4	501941.94	2629369.6	4/7/2006	Shallow	ND
GP-T02-06	LL4	501941.94	2629369.6	4/7/2006	Intermediate	0.59 J
GP-T02-06	LL4	501941.94	2629369.6	4/7/2006	Intermediate	2.2
GP-T02-06	LL4	501941.94	2629369.6	4/7/2006	Intermediate	2.3
GP-T02-07	LL4	502468.62	2629364	4/7/2006	Shallow	ND
GP-T02-07	LL4	502468.62	2629364	4/7/2006	Intermediate	0.3 J
GP-T02-07	LL4	502468.62	2629364	4/7/2006	Intermediate	ND
GP-T02-08	LL4	502902.68	2629339.51	4/7/2006	Shallow	ND
GP-T02-08	LL4	502902.68	2629339.51	4/7/2006	Intermediate	ND
GP-T02-08	LL4	502902.68	2629339.51	4/7/2006	Intermediate	ND
GP-T02-09	LL4	503325.07	2629316.81	4/7/2006	Shallow	ND
GP-T02-09	LL4	503325.07	2629316.81	4/7/2006	Intermediate	ND
GP-T02-09	LL4	503325.07	2629316.81	4/7/2006	Intermediate	ND
GP-T08-08	LL4	499275.67	2627824.81	4/10/2006	Shallow	ND
GP-T08-08	LL4	499275.67	2627824.81	4/10/2006	Intermediate	ND
GP-T08-08	LL4	499275.67	2627824.81	4/10/2006	Intermediate	ND
GP-T08-09	LL4	499899.82	2628520.87	4/13/2006	Shallow	ND
GP-T08-09	LL4	499899.82	2628520.87	4/13/2006	Intermediate	ND
GP-T08-09	LL4	499899.82	2628520.87	4/13/2006	Intermediate	ND
GP-T13-10	LL4	501518.82	2632669.14	4/9/2006	Shallow	ND
GP-T13-10	LL4	501518.82	2632669.14	4/9/2006	Intermediate	ND
GP-T13-10	LL4	501518.82	2632669.14	4/9/2006	Intermediate	ND
GP-T13-11	LL4	501983.37	2632896.92	4/9/2006	Shallow	5.1 J
GP-T13-11	LL4	501983.37	2632896.92	4/9/2006	Shallow	8.7 J
GP-T13-11	LL4	501983.37	2632896.92	4/9/2006	Intermediate	4.1

Table 3-1
RDX in Monitoring Wells and Direct-Push Samples (2008-2012)
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T13-11	LL4	501983.37	2632896.92	4/9/2006	Intermediate	1.3
GP-T13-12	LL4	502540.34	2633148.93	4/9/2006	Shallow	ND
GP-T13-12	LL4	502540.34	2633148.93	4/9/2006	Intermediate	0.65 J
GP-T13-12	LL4	502540.34	2633148.93	4/9/2006	Intermediate	2.6
GP-T13-12	LL4	502540.34	2633148.93	4/9/2006	Intermediate	2.9
GP-T16-11	LL4	505770.2	2629677.71	4/7/2006	Shallow	3.6
GP-T16-12	LL4	506202.03	2629950.19	4/12/2006	Shallow	ND
GP-T16-12	LL4	506202.03	2629950.19	4/13/2006	Intermediate	ND
GP-T16-12	LL4	506202.03	2629950.19	4/13/2006	Intermediate	ND
GP-T16-13	LL4	506691.28	2630554.47	4/7/2006	Shallow	ND
GP-T16-13	LL4	506691.28	2630554.47	4/7/2006	Intermediate	ND
GP-T16-13	LL4	506691.28	2630554.47	4/7/2006	Intermediate	ND
GP-T19-01	LL4	507534.43	2622762.92	3/19/2006	Shallow	ND
GP-T19-02	LL4	507839.28	2623161.28	3/16/2006	Shallow	ND
GP-T19-03	LL4	508151.69	2623576.43	3/27/2006	Shallow	ND
GP-T19-04	LL4	508440.31	2623950.09	3/15/2006	Shallow	ND
GP-T19-05	LL4	508771.15	2624374.54	3/15/2006	Shallow	ND
GP-T19-06	LL4	509053.25	2624727.52	3/15/2006	Shallow	ND
GP-T19-07	LL4	509334.73	2625143.02	3/15/2006	Shallow	ND
GP-T19-08	LL4	509630.56	2625458.31	3/18/2006	Shallow	ND
GP-T19-09	LL4	509964.93	2625793.51	3/18/2006	Shallow	ND
GP-T19-10	LL4	510332.85	2626216.61	3/18/2006	Shallow	ND
GP-T19-11	LL4	510919.84	2627092.46	3/17/2006	Shallow	ND
GP-T20-01	LL4	505463.91	2623130.49	3/29/2006	Shallow	ND
GP-T20-02	LL4	505819.31	2623536.32	3/29/2006	Shallow	ND
GP-T20-03	LL4	506156.46	2623909.92	3/29/2006	Shallow	0.98 J
GP-T20-04	LL4	506626.63	2624237.72	3/31/2006	Shallow	ND
GP-T20-05	LL4	506791.18	2624645.79	3/16/2006	Shallow	ND
GP-T20-06	LL4	507062.7	2625085.72	3/16/2006	Shallow	ND
GP-T20-07	LL4	507317.68	2625465.24	3/16/2006	Shallow	ND
GP-T20-08	LL4	507579.81	2625859.1	3/16/2006	Shallow	ND
GP-T20-09	LL4	507906.86	2626355.84	3/18/2006	Shallow	ND
GP-T20-10	LL4	508238.88	2626762.96	3/18/2006	Shallow	0.29 J
GP-T20-11	LL4	508559.67	2627149.05	3/18/2006	Shallow	ND
GP-T20-13	LL4	509096.7	2628017.96	3/17/2006	Shallow	ND
GP-T20-14	LL4	509356.13	2628408.81	3/17/2006	Shallow	ND
GP-T21-01	LL4	505245.83	2630721.19	4/13/2006	Shallow	ND
GP-T21-02	LL4	505824.13	2631110.35	4/7/2006	Shallow	0.5 J
GP-T21-03	LL4	506054.56	2631437.37	4/8/2006	Shallow	ND
GP-T21-04	LL4	506273.77	2631674.44	4/13/2006	Shallow	ND
GP-T22-01	LL4	504375.77	2631531.82	4/8/2006	Shallow	0.47 J
GP-T22-01	LL4	504375.77	2631531.82	4/8/2006	Shallow	0.67 J
GP-T22-02	LL4	504870.51	2631979.58	4/8/2006	Shallow	ND
GP-T22-03	LL4	505446.21	2631945.48	4/8/2006	Shallow	ND
GP-T22-04	LL4	505672.31	2632383.92	4/11/2006	Shallow	ND
GP-T23-01	LL4	503142.89	2633127.11	4/9/2006	Shallow	0.52 J
GP-T23-02	LL4	503711.37	2633201.39	4/9/2006	Shallow	ND

Table 3-1
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T23-03	LL4	504359.25	2633324.9	4/9/2006	Shallow	ND
GP-T23-04	LL4	504676.61	2633152	4/9/2006	Shallow	ND
GP-T25-01	LL4	501884.99	2635697.45	4/8/2006	Shallow	ND
GP-T25-02	LL4	502542.11	2636032.57	4/8/2006	Shallow	ND
GP-T25-03	LL4	502908.74	2636333.74	4/11/2006	Shallow	ND
GP-T26-01	LL4	500854.83	2636851.73	4/11/2006	Shallow	ND
GP-T26-02	LL4	500908.7	2637375.89	4/8/2006	Shallow	ND
GP-T27-01	LL4	498418.2	2636047.9	4/12/2006	Shallow	ND
GP-T27-02	LL4	498454	2636546.24	4/10/2006	Shallow	ND
GP-T27-03	LL4	498491.2	2637038.44	4/12/2006	Shallow	ND
GP-T27-04	LL4	498517.45	2637547.05	4/10/2006	Shallow	ND
GP-T64-01	LL4	501910.25	2635794.25	12/18/2008	Shallow	ND
GP-T64-01	LL4	501910.25	2635794.25	12/18/2008	Shallow	ND
GP-T64-01	LL4	501910.25	2635794.25	12/18/2008	Intermediate	ND
GP-T64-01	LL4	501910.25	2635794.25	12/18/2008	Intermediate	ND
GP-T64-02	LL4	502506.5	2636022.76	12/18/2008	Shallow	ND
GP-T64-02	LL4	502506.5	2636022.76	12/18/2008	Shallow	ND
GP-T64-02	LL4	502506.5	2636022.76	12/18/2008	Intermediate	ND
GP-T64-02	LL4	502506.5	2636022.76	12/18/2008	Intermediate	ND
GP-T64-03	LL4	503094.46	2636328.38	12/18/2008	Shallow	ND
GP-T64-03	LL4	503094.46	2636328.38	12/18/2008	Shallow	ND
GP-T64-03	LL4	503094.46	2636328.38	12/18/2008	Intermediate	ND
GP-T64-03	LL4	503094.46	2636328.38	12/18/2008	Intermediate	ND
GP-T79-001	LL4	506618.756	2623987.34	5/18/2010	Shallow	1.2 J
GP-T79-001	LL4	506618.756	2623987.34	5/18/2010	Shallow	0.17 J
GP-T79-001	LL4	506618.756	2623987.34	5/18/2010	Shallow	ND
GP-T79-001	LL4	506618.756	2623987.34	5/17/2010	Intermediate	0.85 J
GP-T79-001	LL4	506618.756	2623987.34	5/17/2010	Intermediate	ND
GP-T79-001	LL4	506618.756	2623987.34	5/17/2010	Intermediate	ND
GP-T79-002	LL4	506668.076	2624392.642	5/17/2010	Shallow	0.086 J
GP-T79-002	LL4	506668.076	2624392.642	5/17/2010	Shallow	ND
GP-T79-002	LL4	506668.076	2624392.642	5/17/2010	Shallow	ND
GP-T79-002	LL4	506668.076	2624392.642	5/17/2010	Intermediate	ND
GP-T79-002	LL4	506668.076	2624392.642	5/17/2010	Intermediate	ND
GP-T79-002	LL4	506668.076	2624392.642	5/17/2010	Intermediate	ND
GP-T79-003	LL4	506690.253	2624885.435	5/10/2010	Shallow	ND
GP-T79-003	LL4	506690.253	2624885.435	5/10/2010	Shallow	ND
GP-T79-003	LL4	506690.253	2624885.435	5/10/2010	Intermediate	ND
GP-T79-003	LL4	506690.253	2624885.435	5/7/2010	Intermediate	ND
GP-T79-003	LL4	506690.253	2624885.435	5/7/2010	Intermediate	ND
GP-T79-004	LL4	506703.161	2625371.06	5/10/2010	Shallow	ND
GP-T79-004	LL4	506703.161	2625371.06	5/10/2010	Intermediate	ND
GP-T79-004	LL4	506703.161	2625371.06	5/10/2010	Intermediate	ND
GP-T79-005	LL4	506731.227	2625899.358	5/14/2010	Shallow	ND
GP-T79-005	LL4	506731.227	2625899.358	5/14/2010	Intermediate	ND
GP-T79-006	LL4	506743.811	2626358.81	5/14/2010	Shallow	ND
GP-T79-006	LL4	506743.811	2626358.81	5/14/2010	Intermediate	ND

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T79-007	LL4	506763.848	2626834.452	5/15/2010	Shallow	ND
GP-T79-007	LL4	506763.848	2626834.452	5/15/2010	Intermediate	ND
GP-T79-008	LL4	506789.669	2627308.306	5/3/2010	Shallow	1.4
GP-T79-008	LL4	506789.669	2627308.306	4/30/2010	Intermediate	0.1 J
GP-T79-008	LL4	506789.669	2627308.306	4/30/2010	Intermediate	1 J
GP-T79-009	LL4	506806.946	2627862.387	4/30/2010	Shallow	12
GP-T79-009	LL4	506806.946	2627862.387	4/30/2010	Shallow	13
GP-T79-009	LL4	506806.946	2627862.387	4/30/2010	Shallow	2.8
GP-T79-009	LL4	506806.946	2627862.387	4/30/2010	Intermediate	1.4 J
GP-T79-009	LL4	506806.946	2627862.387	4/29/2010	Intermediate	0.93
GP-T79-009	LL4	506806.946	2627862.387	4/29/2010	Intermediate	1.2
GP-T79-010	LL4	506826.096	2628389.574	4/30/2010	Shallow	6.1
GP-T79-010	LL4	506826.096	2628389.574	4/30/2010	Shallow	6.5
GP-T79-010	LL4	506826.096	2628389.574	4/30/2010	Shallow	5.9
GP-T79-010	LL4	506826.096	2628389.574	4/29/2010	Intermediate	0.87 J
GP-T79-010	LL4	506826.096	2628389.574	4/29/2010	Intermediate	0.13 J
GP-T79-010	LL4	506826.096	2628389.574	4/29/2010	Intermediate	0.49
GP-T79-011	LL4	506850.554	2628859.564	5/15/2010	Shallow	1.8
GP-T79-011	LL4	506850.554	2628859.564	5/15/2010	Shallow	0.69
GP-T79-011	LL4	506850.554	2628859.564	5/15/2010	Shallow	1.2
GP-T79-011	LL4	506850.554	2628859.564	5/15/2010	Shallow	0.38 J
GP-T79-011	LL4	506850.554	2628859.564	5/15/2010	Intermediate	0.051 J
GP-T79-011	LL4	506850.554	2628859.564	5/15/2010	Intermediate	0.3 J
GP-T79-011	LL4	506850.554	2628859.564	5/15/2010	Intermediate	1.8
GP-T79-014	LL4	507692.4072	2629154.493	6/24/2010	Shallow	0.55 J
GP-T79-014	LL4	507692.4072	2629154.493	6/24/2010	Intermediate	0.042 J
GP-T79-014	LL4	507692.4072	2629154.493	6/24/2010	Intermediate	0.044 J
GP-T79-014	LL4	507692.4072	2629154.493	6/24/2010	Intermediate	0.046 J
GP-T80-001	LL4	504073.763	2625275.64	5/18/2010	Shallow	0.85
GP-T80-001	LL4	504073.763	2625275.64	5/18/2010	Shallow	3.1
GP-T80-001	LL4	504073.763	2625275.64	5/18/2010	Intermediate	1.1
GP-T80-001	LL4	504073.763	2625275.64	5/18/2010	Intermediate	ND
GP-T80-001	LL4	504073.763	2625275.64	5/18/2010	Intermediate	0.096 J
GP-T80-001	LL4	504073.763	2625275.64	5/18/2010	Intermediate	ND
GP-T80-002	LL4	504092.078	2625748.988	5/19/2010	Shallow	ND
GP-T80-002	LL4	504092.078	2625748.988	5/19/2010	Shallow	3.2
GP-T80-002	LL4	504092.078	2625748.988	5/19/2010	Shallow	3.5 J
GP-T80-002	LL4	504092.078	2625748.988	5/19/2010	Shallow	2.8
GP-T80-002	LL4	504092.078	2625748.988	5/19/2010	Intermediate	6.8
GP-T80-002	LL4	504092.078	2625748.988	5/19/2010	Intermediate	ND
GP-T80-002	LL4	504092.078	2625748.988	5/19/2010	Intermediate	ND
GP-T80-003	LL4	504110.834	2626209.324	5/20/2010	Shallow	0.05 J
GP-T80-003	LL4	504110.834	2626209.324	5/20/2010	Shallow	0.27
GP-T80-003	LL4	504110.834	2626209.324	5/19/2010	Intermediate	0.18 J
GP-T80-003	LL4	504110.834	2626209.324	5/19/2010	Intermediate	0.35
GP-T80-003	LL4	504110.834	2626209.324	5/19/2010	Intermediate	ND
GP-T80-004	LL4	503909.447	2626689.886	5/24/2010	Shallow	ND

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T80-004	LL4	503909.447	2626689.886	5/24/2010	Shallow	4.2
GP-T80-004	LL4	503909.447	2626689.886	5/24/2010	Shallow	0.06 J
GP-T80-004	LL4	503909.447	2626689.886	5/24/2010	Intermediate	0.051 J
GP-T80-004	LL4	503909.447	2626689.886	5/24/2010	Intermediate	1.3
GP-T80-004	LL4	503909.447	2626689.886	5/24/2010	Intermediate	0.23
GP-T80-005	LL4	504146.517	2627183.481	5/25/2010	Shallow	ND
GP-T80-005	LL4	504146.517	2627183.481	5/25/2010	Shallow	ND
GP-T80-005	LL4	504146.517	2627183.481	5/25/2010	Intermediate	0.073 J
GP-T80-005	LL4	504146.517	2627183.481	5/25/2010	Intermediate	0.12 J
GP-T80-005	LL4	504146.517	2627183.481	5/25/2010	Intermediate	0 J
GP-T80-006	LL4	504167.043	2627718.092	5/25/2010	Shallow	0.044 J
GP-T80-006	LL4	504167.043	2627718.092	5/25/2010	Shallow	ND
GP-T80-006	LL4	504167.043	2627718.092	5/25/2010	Shallow	0.092 J
GP-T80-006	LL4	504167.043	2627718.092	5/25/2010	Intermediate	ND
GP-T80-006	LL4	504167.043	2627718.092	5/25/2010	Intermediate	ND
GP-T80-006	LL4	504167.043	2627718.092	5/25/2010	Intermediate	ND
GP-T80-007	LL4	504259.2321	2628204.093	5/26/2010	Shallow	ND
GP-T80-007	LL4	504259.2321	2628204.093	5/26/2010	Shallow	ND
GP-T80-007	LL4	504259.2321	2628204.093	5/26/2010	Shallow	ND
GP-T80-007	LL4	504259.2321	2628204.093	5/26/2010	Intermediate	ND
GP-T80-007	LL4	504259.2321	2628204.093	5/26/2010	Intermediate	ND
GP-T80-007	LL4	504259.2321	2628204.093	5/26/2010	Intermediate	ND
GP-T80-008	LL4	504268.7156	2628697.73	5/26/2010	Shallow	4.3
GP-T80-008	LL4	504268.7156	2628697.73	5/26/2010	Shallow	3.5
GP-T80-008	LL4	504268.7156	2628697.73	5/26/2010	Shallow	5.2
GP-T80-008	LL4	504268.7156	2628697.73	5/26/2010	Shallow	5.8
GP-T80-008	LL4	504268.7156	2628697.73	5/26/2010	Intermediate	3.1
GP-T80-008	LL4	504268.7156	2628697.73	5/26/2010	Intermediate	0.084 J
GP-T80-008	LL4	504268.7156	2628697.73	5/26/2010	Intermediate	ND
GP-T80-009	LL4	504223.703	2629090.592	6/2/2010	Shallow	8.9
GP-T80-009	LL4	504223.703	2629090.592	6/1/2010	Shallow	5.6
GP-T80-009	LL4	504223.703	2629090.592	6/1/2010	Intermediate	1.5
GP-T80-009	LL4	504223.703	2629090.592	6/1/2010	Intermediate	0.058 J
GP-T80-009	LL4	504223.703	2629090.592	6/1/2010	Intermediate	0.087 J
GP-T80-010	LL4	504254.677	2629751.507	6/3/2010	Shallow	1.8
GP-T80-010	LL4	504254.677	2629751.507	6/3/2010	Shallow	0.33 J
GP-T80-010	LL4	504254.677	2629751.507	6/2/2010	Intermediate	0.65 J
GP-T80-010	LL4	504254.677	2629751.507	6/2/2010	Intermediate	ND
GP-T80-010	LL4	504254.677	2629751.507	6/2/2010	Intermediate	ND
GP-T80-011	LL4	504271.871	2630182.534	6/3/2010	Shallow	1.7
GP-T80-011	LL4	504271.871	2630182.534	6/3/2010	Shallow	0.84
GP-T80-011	LL4	504271.871	2630182.534	6/3/2010	Intermediate	ND
GP-T80-011	LL4	504271.871	2630182.534	6/3/2010	Intermediate	ND
GP-T80-011	LL4	504271.871	2630182.534	6/3/2010	Intermediate	ND
GP-T80-012	LL4	504290.525	2630714.462	6/14/2010	Shallow	1.9
GP-T80-012	LL4	504290.525	2630714.462	6/14/2010	Shallow	0.97
GP-T80-012	LL4	504290.525	2630714.462	6/14/2010	Intermediate	1.1

Table 3-1
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T80-012	LL4	504290.525	2630714.462	6/14/2010	Intermediate	1.2
GP-T80-012	LL4	504290.525	2630714.462	6/14/2010	Intermediate	0.18 J
GP-T80-013	LL4	504310.398	2631167.793	6/11/2010	Shallow	0.047 J
GP-T80-013	LL4	504310.398	2631167.793	6/11/2010	Shallow	0.67 J
GP-T80-013	LL4	504310.398	2631167.793	6/11/2010	Intermediate	3
GP-T80-013	LL4	504310.398	2631167.793	6/11/2010	Intermediate	3.4
GP-T80-013	LL4	504310.398	2631167.793	6/11/2010	Intermediate	0.078 J
GP-T80-014	LL4	504330.063	2631636.53	6/14/2010	Shallow	0.14 J
GP-T80-014	LL4	504330.063	2631636.53	6/14/2010	Shallow	0.35 J
GP-T80-014	LL4	504330.063	2631636.53	6/14/2010	Shallow	0.47 J
GP-T80-014	LL4	504330.063	2631636.53	6/14/2010	Intermediate	0.45 J
GP-T80-014	LL4	504330.063	2631636.53	6/14/2010	Intermediate	0.14 J
GP-T80-015	LL4	504352.47	2632215.128	6/15/2010	Shallow	ND
GP-T80-015	LL4	504352.47	2632215.128	6/15/2010	Shallow	0.84
GP-T80-015	LL4	504352.47	2632215.128	6/15/2010	Intermediate	0.33 J
GP-T80-015	LL4	504352.47	2632215.128	6/15/2010	Intermediate	0.059 J
GP-T80-015	LL4	504352.47	2632215.128	6/15/2010	Intermediate	ND
GP-T80-016	LL4	504383.104	2632780.641	6/14/2010	Shallow	ND
GP-T80-016	LL4	504383.104	2632780.641	6/14/2010	Shallow	ND
GP-T80-016	LL4	504383.104	2632780.641	6/14/2010	Intermediate	ND
GP-T80-016	LL4	504383.104	2632780.641	6/14/2010	Intermediate	ND
GP-T80-016	LL4	504383.104	2632780.641	6/14/2010	Intermediate	ND
GP-T80-017	LL4	504399.21	2633310.557	6/14/2010	Shallow	ND
GP-T80-017	LL4	504399.21	2633310.557	6/14/2010	Shallow	ND
GP-T80-017	LL4	504399.21	2633310.557	6/14/2010	Intermediate	ND
GP-T80-017	LL4	504399.21	2633310.557	6/14/2010	Intermediate	ND
GP-T80-017	LL4	504399.21	2633310.557	6/14/2010	Intermediate	ND
GP-T80-018	LL4	504049.974	2624785.346	7/2/2010	Shallow	ND
GP-T80-018	LL4	504049.974	2624785.346	7/2/2010	Shallow	0.15 J
GP-T80-018	LL4	504049.974	2624785.346	7/2/2010	Intermediate	0.05 J
GP-T80-018	LL4	504049.974	2624785.346	7/2/2010	Intermediate	0.038 J
GP-T80-018	LL4	504049.974	2624785.346	7/2/2010	Intermediate	0.066 J
GP-T80-018	LL4	504049.974	2624785.346	7/2/2010	Intermediate	0.039 J
GP-T81-001	LL4	501588.715	2628299.945	6/22/2010	Shallow	0.045 J
GP-T81-001	LL4	501588.715	2628299.945	6/22/2010	Shallow	ND
GP-T81-001	LL4	501588.715	2628299.945	6/22/2010	Shallow	2.6
GP-T81-001	LL4	501588.715	2628299.945	6/22/2010	Intermediate	2.5
GP-T81-001	LL4	501588.715	2628299.945	6/22/2010	Intermediate	0.4
GP-T81-001	LL4	501588.715	2628299.945	6/22/2010	Intermediate	0.45
GP-T81-001	LL4	501588.715	2628299.945	6/22/2010	Intermediate	ND
GP-T81-002	LL4	501605.575	2628859.692	6/22/2010	Shallow	ND
GP-T81-002	LL4	501605.575	2628859.692	6/22/2010	Shallow	1.8
GP-T81-002	LL4	501605.575	2628859.692	6/22/2010	Intermediate	3
GP-T81-002	LL4	501605.575	2628859.692	6/22/2010	Intermediate	3.2
GP-T81-003	LL4	501622.435	2629419.438	6/21/2010	Shallow	ND
GP-T81-003	LL4	501622.435	2629419.438	6/21/2010	Shallow	0.24 J
GP-T81-003	LL4	501622.435	2629419.438	6/21/2010	Intermediate	0.59

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T81-003	LL4	501622.435	2629419.438	6/21/2010	Intermediate	2
GP-T81-003	LL4	501622.435	2629419.438	6/21/2010	Intermediate	0.74
GP-T81-004	LL4	501639.295	2629979.184	6/17/2010	Shallow	ND
GP-T81-004	LL4	501639.295	2629979.184	6/17/2010	Shallow	0.84
GP-T81-004	LL4	501639.295	2629979.184	6/17/2010	Intermediate	1.9
GP-T81-004	LL4	501639.295	2629979.184	6/17/2010	Intermediate	0.9
GP-T81-004	LL4	501639.295	2629979.184	6/17/2010	Intermediate	0.043 J
GP-T81-005	LL4	501656.155	2630538.93	6/17/2010	Shallow	ND
GP-T81-005	LL4	501656.155	2630538.93	6/17/2010	Shallow	0.51
GP-T81-005	LL4	501656.155	2630538.93	6/17/2010	Shallow	0.61
GP-T81-005	LL4	501656.155	2630538.93	6/17/2010	Intermediate	0.75
GP-T81-005	LL4	501656.155	2630538.93	6/17/2010	Intermediate	0.061 J
GP-T81-005	LL4	501656.155	2630538.93	6/17/2010	Intermediate	0.18 J
GP-T81-006	LL4	501673.014	2631098.676	6/18/2010	Shallow	ND
GP-T81-006	LL4	501673.014	2631098.676	6/18/2010	Shallow	ND
GP-T81-006	LL4	501673.014	2631098.676	6/18/2010	Intermediate	ND
GP-T81-006	LL4	501673.014	2631098.676	6/18/2010	Intermediate	ND
GP-T81-006	LL4	501673.014	2631098.676	6/18/2010	Intermediate	0.048 J
GP-T81-007	LL4	501689.874	2631658.422	6/18/2010	Shallow	ND
GP-T81-007	LL4	501689.874	2631658.422	6/18/2010	Shallow	ND
GP-T81-007	LL4	501689.874	2631658.422	6/18/2010	Intermediate	ND
GP-T81-007	LL4	501689.874	2631658.422	6/18/2010	Intermediate	ND
GP-T81-010	LL4	501740.454	2633337.661	6/17/2010	Shallow	ND
GP-T81-010	LL4	501740.454	2633337.661	6/17/2010	Shallow	ND
GP-T81-010	LL4	501740.454	2633337.661	6/17/2010	Intermediate	3.8
GP-T81-010	LL4	501740.454	2633337.661	6/16/2010	Intermediate	5.2
GP-T81-010	LL4	501740.454	2633337.661	6/16/2010	Intermediate	11
GP-T81-011	LL4	501757.313	2633897.407	6/17/2010	Shallow	ND
GP-T81-011	LL4	501757.313	2633897.407	6/17/2010	Shallow	0.058 J
GP-T81-011	LL4	501757.313	2633897.407	6/17/2010	Intermediate	3.2
GP-T81-011	LL4	501757.313	2633897.407	6/17/2010	Intermediate	0.26
GP-T81-011	LL4	501757.313	2633897.407	6/17/2010	Intermediate	3
GP-T81-012	LL4	501774.173	2634457.153	6/17/2010	Shallow	2.1
GP-T81-012	LL4	501774.173	2634457.153	6/17/2010	Shallow	1.6
GP-T81-012	LL4	501774.173	2634457.153	6/17/2010	Intermediate	3.4
GP-T81-012	LL4	501774.173	2634457.153	6/17/2010	Intermediate	3.5
GP-T81-012	LL4	501774.173	2634457.153	6/17/2010	Intermediate	1.2
GP-T81-013	LL4	501791.033	2635016.899	6/18/2010	Shallow	ND
GP-T81-013	LL4	501791.033	2635016.899	6/18/2010	Shallow	0.096 J
GP-T81-013	LL4	501791.033	2635016.899	6/18/2010	Intermediate	0.65
GP-T81-013	LL4	501791.033	2635016.899	6/18/2010	Intermediate	0.72
GP-T81-013	LL4	501791.033	2635016.899	6/18/2010	Intermediate	0.87
GP-T81-013	LL4	501791.033	2635016.899	6/18/2010	Intermediate	0.83
GP-T81-014	LL4	501807.893	2635576.645	6/18/2010	Shallow	0.08 J
GP-T81-014	LL4	501807.893	2635576.645	6/18/2010	Shallow	0.094 J
GP-T81-014	LL4	501807.893	2635576.645	6/18/2010	Intermediate	0.12 J
GP-T81-014	LL4	501807.893	2635576.645	6/18/2010	Intermediate	0.1 J

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T81-015	LL4	501820.487	2635994.779	6/18/2010	Shallow	ND
GP-T81-015	LL4	501820.487	2635994.779	6/18/2010	Shallow	ND
GP-T81-015	LL4	501820.487	2635994.779	6/18/2010	Intermediate	0.18 J
GP-T81-015	LL4	501820.487	2635994.779	6/18/2010	Intermediate	ND
GP-T81-015	LL4	501820.487	2635994.779	6/18/2010	Intermediate	ND
GP-T81-018	LL4	501727.21	2627722.81	8/16/2010	Shallow	0.28 J
GP-T81-018	LL4	501727.21	2627722.81	8/16/2010	Shallow	0.46
GP-T81-018	LL4	501727.21	2627722.81	8/16/2010	Intermediate	0.051 J
GP-T81-018	LL4	501727.21	2627722.81	8/16/2010	Intermediate	ND
GP-T81-018	LL4	501727.21	2627722.81	8/16/2010	Intermediate	0.16 J
GP-T82-003	LL4	498680.479	2632826.05	6/21/2010	Shallow	ND
GP-T82-003	LL4	498680.479	2632826.05	6/21/2010	Shallow	ND
GP-T82-003	LL4	498680.479	2632826.05	6/21/2010	Intermediate	0.55
GP-T82-003	LL4	498680.479	2632826.05	6/21/2010	Intermediate	0.59
GP-T82-003	LL4	498680.479	2632826.05	6/21/2010	Intermediate	1.4
GP-T82-004	LL4	499238.982	2632866.974	6/21/2010	Shallow	ND
GP-T82-004	LL4	499238.982	2632866.974	6/21/2010	Shallow	0.31
GP-T82-004	LL4	499238.982	2632866.974	6/21/2010	Intermediate	1.7
GP-T82-004	LL4	499238.982	2632866.974	6/21/2010	Intermediate	1.8
GP-T82-005	LL4	499797.484	2632907.899	6/21/2010	Shallow	ND
GP-T82-005	LL4	499797.484	2632907.899	6/21/2010	Intermediate	0.35
GP-T82-005	LL4	499797.484	2632907.899	6/21/2010	Intermediate	0.44
GP-T82-005	LL4	499797.484	2632907.899	6/21/2010	Intermediate	0.44
GP-T82-006	LL4	500355.987	2632948.824	6/22/2010	Shallow	ND
GP-T82-006	LL4	500355.987	2632948.824	6/22/2010	Intermediate	ND
GP-T82-006	LL4	500355.987	2632948.824	6/22/2010	Intermediate	0.038 J
GP-T82-007	LL4	500914.489	2632989.749	6/22/2010	Shallow	0.085 J
GP-T82-007	LL4	500914.489	2632989.749	6/22/2010	Intermediate	0.055 J
GP-T82-007	LL4	500914.489	2632989.749	6/22/2010	Intermediate	ND
GP-T82-008	LL4	501472.992	2633030.673	6/22/2010	Shallow	0.88
GP-T82-008	LL4	501472.992	2633030.673	6/22/2010	Intermediate	3.1
GP-T82-008	LL4	501472.992	2633030.673	6/22/2010	Intermediate	2.5
GP-T82-009	LL4	501924.53	2633036.74	7/28/2010	Shallow	ND
GP-T82-009	LL4	501924.53	2633036.74	7/28/2010	Shallow	2.29
GP-T82-009	LL4	501924.53	2633036.74	7/28/2010	Intermediate	10.3
GP-T82-009	LL4	501924.53	2633036.74	7/27/2010	Intermediate	9.45
GP-T82-010	LL4	502388.94	2633082.66	7/30/2010	Shallow	ND
GP-T82-010	LL4	502388.94	2633082.66	7/29/2010	Shallow	1.21 J
GP-T82-010	LL4	502388.94	2633082.66	7/28/2010	Intermediate	ND
GP-T82-010	LL4	502388.94	2633082.66	7/28/2010	Intermediate	1.25
GP-T82-010	LL4	502388.94	2633082.66	7/28/2010	Intermediate	1.58
GP-T82-010	LL4	502388.94	2633082.66	7/28/2010	Intermediate	2.18
GP-T83-001	LL4	499521.824	2632578.532	5/12/2010	Shallow	0.066 J
GP-T83-001	LL4	499521.824	2632578.532	5/12/2010	Shallow	0.084 J
GP-T83-001	LL4	499521.824	2632578.532	5/12/2010	Intermediate	2.1
GP-T83-001	LL4	499521.824	2632578.532	5/12/2010	Intermediate	1.6
GP-T83-002	LL4	499548.156	2632662.103	5/13/2010	Shallow	0.1 J

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2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
GP-T83-002	LL4	499548.156	2632662.103	5/13/2010	Shallow	1.2
GP-T83-002	LL4	499548.156	2632662.103	5/13/2010	Intermediate	4.5 J
GP-T83-002	LL4	499548.156	2632662.103	5/12/2010	Intermediate	2.7 J
GP-T83-002	LL4	499548.156	2632662.103	5/12/2010	Intermediate	1.1
GP-T83-003	LL4	499568.387	2632803.934	5/13/2010	Shallow	0.11 J
GP-T83-003	LL4	499568.387	2632803.934	5/13/2010	Shallow	ND
GP-T83-003	LL4	499568.387	2632803.934	5/13/2010	Intermediate	1.6
GP-T83-003	LL4	499568.387	2632803.934	5/13/2010	Intermediate	1.9
GP-T83-003	LL4	499568.387	2632803.934	5/13/2010	Intermediate	0.72
MW-01A	LL4	511743.02	2618459.71	7/1/2010	Intermediate	ND
MW-01B	LL4	511743.23	2618469.56	7/1/2010	Shallow	ND
MW-06-18D	LL4	504327.04	2636163.58	11/8/2010		ND
MW-06-18S	LL4	504327.04	2636163.58	11/8/2010		ND
MW-06-31A	LL4	509516.49	2633148.44	11/8/2010		ND
MW-06-31B	LL4	509718.75	2633861.66	11/8/2010		ND
MW-08A	LL4	506814.75	2622863.97	6/8/2012	Intermediate	ND
MW-08B	LL4	506820.56	2622872.07	6/8/2012	Shallow	0.44
MW-09A	LL4	507435.83	2623570.81	7/6/2010	Intermediate	ND
MW-09B	LL4	507436.09	2623580.33	7/6/2010	Shallow	ND
MW-102A	LL4	514541.23	2622929.37	10/6/2011	Intermediate	ND
MW-102B	LL4	514540.92	2622923.36	10/6/2011	Shallow	ND
MW-102B	LL4	514540.92	2622923.36	10/6/2011	Shallow	ND
MW-102D	LL4	514541.49	2622935.91	10/6/2011	Intermediate	ND
MW-103A	LL4	513115.78	2623590.76	10/6/2011	Intermediate	ND
MW-103B	LL4	513110.25	2623591.23	10/6/2011	Shallow	ND
MW-103D	LL4	513132.9	2623589.45	10/6/2011	Intermediate	ND
MW-104A	LL4	499205.59	2634092.17	5/29/2012	Intermediate	4
MW-104B	LL4	499205.6	2634082.83	5/29/2012	Shallow	3.6
MW-104D	LL4	499205.34	2634100.79	5/29/2012	Intermediate	ND
MW-104O	LL4	499204.99	2634073.86	5/29/2012	Shallow	0.072 J
MW-105A	LL4	496642.99	2635041.97	5/29/2012	Intermediate	ND
MW-105A	LL4	496642.99	2635041.97	5/29/2012	Intermediate	ND
MW-105B	LL4	496652.98	2635042.33	5/29/2012	Shallow	ND
MW-105O	LL4	496662.28	2635040.67	5/29/2012	Shallow	ND
MW-106A	LL4	506843.25	2630544.54	8/23/2012	Intermediate	ND
MW-106B	LL4	506844.1	2630539.26	8/23/2012	Shallow	ND
MW-106D	LL4	506842.71	2630549.49	8/23/2012	Intermediate	0.31 J
MW-107A	LL4	506138.75	2631375.71	8/23/2012	Intermediate	ND
MW-107B	LL4	506125.15	2631374.07	8/23/2012	Shallow	ND
MW-107D	LL4	506131.86	2631375.03	8/23/2012	Intermediate	ND
MW-108A	LL4	505912.27	2631915.55	8/23/2012	Intermediate	ND
MW-108B	LL4	505899.46	2631917.07	8/23/2012	Shallow	ND
MW-108D	LL4	505906.33	2631916.33	8/23/2012	Intermediate	ND
MW-109A	LL4	501896.05	2634807.18	5/30/2012	Intermediate	2.5
MW-109A	LL4	501896.05	2634807.18	5/30/2012	Intermediate	2.5
MW-109B	LL4	501904.25	2634805.74	5/30/2012	Shallow	2
MW-109O	LL4	501911.8	2634805.16	5/30/2012	Shallow	ND

Table 3-1
RDX in Monitoring Wells and Direct-Push Samples (2008-2012)
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
MW-11	LL4	509499.79	2626486.32	6/8/2012	Shallow	21
MW-110A	LL4	504432.79	2634397.71	8/22/2012	Intermediate	0.24 J
MW-110B	LL4	504438.88	2634397.15	8/22/2012	Shallow	ND
MW-110D	LL4	504425.93	2634398.63	8/22/2012	Intermediate	ND
MW-111A	LL4	499337.97	2636151.56	5/29/2012	Intermediate	ND
MW-111B	LL4	499348.23	2636151.74	5/29/2012	Shallow	0.047 J
MW-111O	LL4	499356.67	2636152.14	5/29/2012	Shallow	ND
MW-112A	LL4	501825.76	2637365.71	8/23/2012	Intermediate	ND
MW-112B	LL4	501832.67	2637365.3	8/23/2012	Shallow	ND
MW-113A	LL4	500472.21	2637420.11	8/23/2012	Intermediate	ND
MW-113B	LL4	500477.67	2637419.51	8/23/2012	Shallow	ND
MW-113D	LL4	500466.04	2637420.33	8/23/2012	Intermediate	ND
MW-114A	LL4	497206.93	2637470.6	8/22/2012	Intermediate	ND
MW-114B	LL4	497204.31	2637465.73	8/22/2012	Shallow	ND
MW-114D	LL4	497209.78	2637475.69	8/22/2012	Intermediate	ND
MW-115A	LL4	495346.87	2637702.52	8/22/2012	Intermediate	ND
MW-115B	LL4	495346.86	2637696.41	8/22/2012	Shallow	ND
MW-115D	LL4	495346.84	2637708.86	8/22/2012	Intermediate	ND
MW-116A	LL4	495297.6	2636335.8	8/10/2012	Intermediate	1 J
MW-116A	LL4	495297.6	2636335.8	8/10/2012	Intermediate	2 J
MW-116B	LL4	495297.23	2636331.53	8/10/2012	Shallow	ND
MW-116D	LL4	495293.68	2636334.21	8/10/2012	Intermediate	ND
MW-151A	LL4	506668.08	2624392.64	6/5/2012	Intermediate	ND
MW-151B	LL4	506667.26	2624386.31	6/5/2012	Shallow	ND
MW-152B	LL4	506805.72	2627865.21	6/5/2012	Shallow	1.1
MW-153A	LL4	504130.22	2627200.19	6/5/2012	Intermediate	ND
MW-153B	LL4	504129.53	2627192.86	6/5/2012	Shallow	0.36 J
MW-154A	LL4	504308.25	2631170.17	6/5/2012	Intermediate	5.9
MW-154B	LL4	504308.2	2631165.22	6/5/2012	Shallow	2.8
MW-155A	LL4	502435.45	2629444.96	6/5/2012	Intermediate	0.11 J
MW-155A	LL4	502435.45	2629444.96	6/5/2012	Intermediate	0.12 J
MW-155B	LL4	502456.405	2629441.73	12/06/2012	Shallow	0.29 J
MW-155E	LL4	502444.32	2629444.89	6/5/2012	Intermediate	0.17 J
MW-156A	LL4	501928.83	2633019.6	6/5/2012	Intermediate	3.8
MW-156B	LL4	501922.48	2633018.32	6/5/2012	Shallow	ND
MW-156B	LL4	501922.48	2633018.32	6/5/2012	Shallow	ND
MW-157A	LL4	499117.46	2632549.3	6/5/2012	Intermediate	1.6
MW-157B	LL4	499118.08	2632559.03	6/5/2012	Shallow	0.12 J
MW-158A	LL4	493887.89	2635279.61	8/22/2012	Intermediate	ND
MW-158B	LL4	493887.64	2635271.87	8/22/2012	Shallow	ND
MW-158D	LL4	493890.97	2635268.63	8/22/2012	Intermediate	ND
MW-159A	LL4	510307.81	2629111.84	8/23/2012	Intermediate	ND
MW-159B	LL4	510300.62	2629111.64	8/23/2012	Shallow	ND
MW-176A	LL4	499810.439	2632839.137	12/06/2012	Intermediate	0.25 J
MW-176B	LL4	499818.354	2632839.673	12/06/2012	Shallow	0.67
MW-178B	LL4	506851.746	2628870.63	12/06/2012	Shallow	1.4
MW-18A	LL4	506832.33	2629150.32	6/4/2012	Intermediate	ND

Table 3-1
RDX in Monitoring Wells and Direct-Push Samples (2008-2012)
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
MW-18B	LL4	506827.45	2629156.56	6/4/2012	Shallow	ND
MW-18C	LL4	506821.93	2629148.52	6/4/2012	Shallow	2.7
MW-36A	LL4	496694.94	2634814.83	3/20/2007	Intermediate	ND
MW-36B	LL4	496692.86	2634805.75	3/20/2007	Shallow	ND
MW-37A	LL4	491651.93	2633418.32	3/15/2007	Intermediate	ND
MW-37B	LL4	491631.64	2633416.51	3/15/2007	Shallow	ND
MW-38A	LL4	496248.57	2638131.87	8/22/2012	Intermediate	ND
MW-38A	LL4	496248.57	2638131.87	8/22/2012	Intermediate	ND
MW-38D	LL4	496250.6	2638138.8	8/22/2012	Intermediate	ND
MW-39A	LL4	499304.69	2640062.25	3/13/2006	Intermediate	ND
MW-41A	LL4	512001.33	2624371.47	10/6/2011	Intermediate	ND
MW-41B	LL4	512001.37	2624361.82	10/6/2011	Shallow	ND
MW-41D	LL4	512000.98	2624353.22	10/6/2011	Intermediate	ND
MW-42A	LL4	501582.56	2629385.19	6/5/2012	Intermediate	2.3
MW-42A	LL4	501582.56	2629385.19	6/5/2012	Intermediate	2.3
MW-42B	LL4	501592.64	2629385.28	6/5/2012	Shallow	ND
MW-42D	LL4	501572.17	2629384.98	6/5/2012	Intermediate	3.3
MW-43A	LL4	504317.91	2629243.06	6/5/2012	Intermediate	ND
MW-43B	LL4	504328.19	2629244.24	6/5/2012	Shallow	1.4
MW-43D	LL4	504308.09	2629242.2	6/5/2012	Intermediate	ND
MW-44A	LL4	500415.11	2632953.68	6/5/2012	Intermediate	ND
MW-44A	LL4	500415.11	2632953.68	6/5/2012	Intermediate	ND
MW-44B	LL4	500426.32	2632954.9	6/5/2012	Shallow	ND
MW-44D	LL4	500403.75	2632952.84	6/5/2012	Intermediate	ND
MW-45A	LL4	499241.12	2635043.53	9/13/2006	Intermediate	4
MW-45A	LL4	499241.12	2635043.53	9/13/2006	Intermediate	4.02
MW-45B	LL4	499241.14	2635053.92	9/13/2006	Shallow	4.9 J
MW-46A	LL4	499387.37	2637464.93	8/23/2012	Intermediate	ND
MW-46A	LL4	499387.37	2637464.93	8/23/2012	Intermediate	ND
MW-46B	LL4	499396.67	2637464.42	8/23/2012	Shallow	ND
MW-46D	LL4	499375.98	2637465.39	8/23/2012	Intermediate	ND
MW-52A	LL4	508784.56	2627012.54	11/10/2011	Intermediate	ND
MW-52B	LL4	508778.93	2627004.23	11/10/2011	Shallow	ND
MW-53A	LL4	508169.87	2627897.77	11/10/2011	Intermediate	0.58
MW-53B	LL4	508166.61	2627885.39	11/10/2011	Shallow	45
MW-54A	LL4	508858.25	2627893.82	6/8/2012	Intermediate	0.47
MW-54B	LL4	508855.98	2627883.87	6/8/2012	Shallow	0.25 J
MW-55A	LL4	508377.66	2628135.4	6/8/2012	Intermediate	0.14 J
MW-55B	LL4	508374.22	2628125.87	6/8/2012	Shallow	ND
MW-55B	LL4	508374.22	2628125.87	6/8/2012	Shallow	ND
MW-56A	LL4	508215.31	2628206.01	8/14/2008	Intermediate	1
MW-56B	LL4	508217.29	2628195.32	8/14/2008	Shallow	ND
MW-62A	LL4	493874.24	2635396.62	10/20/2010	Intermediate	ND
MW-62B	LL4	493871.95	2635385.05	10/20/2010	Shallow	ND
MW-62B	LL4	493871.95	2635385.05	10/20/2010	Shallow	ND
MW-62D	LL4	493876.95	2635407.14	10/20/2010	Intermediate	ND
MW-64B	LL4	510106.02	2628038.55	2/5/2010	Shallow	ND

Table 3-1
RDX in Monitoring Wells and Direct-Push Samples (2008-2012)
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	RDX Result (µg/L)
MW-72A	LL4	512064.68	2622930.98	12/11/2007	Intermediate	ND
MW-72B	LL4	512064.18	2622921.73	12/11/2007	Shallow	ND
MW-87A	LL4	491898.02	2635039.8	5/29/2012	Intermediate	ND
MW-87B	LL4	491900.96	2635035.21	5/29/2012	Shallow	0.18 J
MW-87D	LL4	491895.21	2635044	5/29/2012	Intermediate	ND
MW-88A	LL4	494045.12	2637643.91	8/22/2012	Intermediate	ND
MW-88B	LL4	494044.2	2637639.18	8/22/2012	Shallow	ND
MW-88D	LL4	494046.07	2637648.61	8/22/2012	Intermediate	ND

µg/L - Micrograms per liter
BAZE = Biologically Active Zone Enhancement
bgs = below ground surface
EW = Extraction Well
ft = feet
ft bgs = Feet below ground surface
GP = Direct Push
J = Estimated from Laboratory
LL = Load Line
MW = Monitoring Well
NA = Information Not Available
NAD 83- North American Datum of 1983
ND = Not Detected
NOP = Nebraska Ordnance Plant
OW = Observation Well
PZ = Piezometer
RDX = Hexahydro-1,3,5-trinitro-1,3,5-triazine

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Table 3-2
TCE in Monitoring Wells and Direct-Push Samples (2008-2012)
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-MW-142	LL1	495599.01	2610571.10	5/11/2010	Shallow	58	59	220
GP-MW-142	LL1	495599.01	2610571.10	5/11/2010	Shallow	68	69	160
GP-MW-142	LL1	495599.01	2610571.10	5/11/2010	Shallow	78	79	450
GP-MW-142	LL1	495599.01	2610571.10	5/11/2010	Shallow	88	89	1000
GP-MW-142	LL1	495599.01	2610571.10	5/11/2010	Intermediate	98	99	1300
GP-MW-142	LL1	495599.01	2610571.10	5/11/2010	Intermediate	108	109	330
GP-MW-142	LL1	495599.01	2610571.10	5/11/2010	Intermediate	118	119	670
GP-MW-142	LL1	495599.01	2610571.10	5/11/2010	Intermediate	128	129	470
GP-MW-160	LL1	496949.00	2609503.00	10/15/2012	Shallow	52	53	29
GP-MW-160	LL1	496949.00	2609503.00	10/15/2012	Shallow	62	63	120
GP-MW-160	LL1	496949.00	2609503.00	10/15/2012	Shallow	72	73	260
GP-MW-160	LL1	496949.00	2609503.00	10/15/2012	Shallow	82	83	460
GP-MW-160	LL1	496949.00	2609503.00	10/15/2012	Intermediate	92	93	710
GP-MW-160	LL1	496949.00	2609503.00	10/15/2012	Intermediate	102	103	1100
GP-MW-160	LL1	496949.00	2609503.00	10/15/2012	Intermediate	112	113	1900
GP-MW-160	LL1	496949.00	2609503.00	10/15/2012	Intermediate	122	123	1800
GP-MW-160	LL1	496949.00	2609503.00	10/15/2012	Intermediate	132	133	1100
GP-MW-179A	LL1	493173.00	2611748.00	10/15/2012	Shallow	14	15	ND
GP-MW-179A	LL1	493173.00	2611748.00	10/15/2012	Shallow	24	25	ND
GP-MW-179A	LL1	493173.00	2611748.00	10/15/2012	Shallow	34	35	ND
GP-MW-179A	LL1	493173.00	2611748.00	10/15/2012	Shallow	34	35	ND
GP-MW-179A	LL1	493173.00	2611748.00	10/15/2012	Shallow	44	45	ND
GP-MW-179A	LL1	493173.00	2611748.00	10/15/2012	Intermediate	54	55	ND
GP-MW-179A	LL1	493173.00	2611748.00	10/15/2012	Intermediate	54	55	ND
GP-MW-179A	LL1	493173.00	2611748.00	10/15/2012	Intermediate	64	65	ND
GP-MW-179A	LL1	493173.00	2611748.00	10/15/2012	Intermediate	74	75	ND
GP-MW-179A	LL1	493173.00	2611748.00	10/15/2012	Intermediate	84	85	ND
GP-T53-01	LL1	506839.48	2605788.85	12/4/2008	Shallow	35	36	ND
GP-T53-01	LL1	506839.48	2605788.85	12/4/2008	Shallow	45	46	ND
GP-T53-01	LL1	506839.48	2605788.85	12/4/2008	Shallow	55	56	ND
GP-T53-01	LL1	506839.48	2605788.85	12/4/2008	Shallow	65	66	ND
GP-T53-01	LL1	506839.48	2605788.85	12/4/2008	Shallow	75	76	ND
GP-T53-01	LL1	506839.48	2605788.85	12/4/2008	Intermediate	85	86	ND
GP-T53-01	LL1	506839.48	2605788.85	12/4/2008	Intermediate	95	96	ND
GP-T53-01	LL1	506839.48	2605788.85	12/3/2008	Intermediate	105	106	ND
GP-T53-01	LL1	506839.48	2605788.85	12/3/2008	Intermediate	115	116	ND
GP-T53-01	LL1	506839.48	2605788.85	12/3/2008	Intermediate	125	126	6.9
GP-T53-01	LL1	506839.48	2605788.85	12/4/2008	Intermediate	135	136	ND
GP-T53-02	LL1	506871.12	2605996.16	12/5/2008	Shallow	40	41	1700
GP-T53-02	LL1	506871.12	2605996.16	12/5/2008	Shallow	50	51	6300
GP-T53-02	LL1	506871.12	2605996.16	12/5/2008	Shallow	50	51	7200
GP-T53-02	LL1	506871.12	2605996.16	12/5/2008	Shallow	60	61	8100
GP-T53-02	LL1	506871.12	2605996.16	12/5/2008	Shallow	70	71	1700
GP-T53-02	LL1	506871.12	2605996.16	12/5/2008	Shallow	80	81	1600
GP-T53-02	LL1	506871.12	2605996.16	12/5/2008	Intermediate	90	91	500
GP-T53-02	LL1	506871.12	2605996.16	12/5/2008	Intermediate	100	101	73
GP-T53-02	LL1	506871.12	2605996.16	12/5/2008	Intermediate	110	111	3 J
GP-T53-02	LL1	506871.12	2605996.16	12/4/2008	Intermediate	120	121	2.6
GP-T53-02	LL1	506871.12	2605996.16	12/4/2008	Intermediate	130	131	9.6
GP-T53-03	LL1	506959.98	2606501.18	12/6/2008	Shallow	41	42	18

Table 3-2
TCE in Monitoring Wells and Direct-Push Samples (2008-2012)
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T53-03	LL1	506959.98	2606501.18	12/6/2008	Shallow	51	52	170
GP-T53-03	LL1	506959.98	2606501.18	12/6/2008	Shallow	61	62	140
GP-T53-03	LL1	506959.98	2606501.18	12/6/2008	Shallow	61	62	160
GP-T53-03	LL1	506959.98	2606501.18	12/6/2008	Shallow	71	72	180
GP-T53-03	LL1	506959.98	2606501.18	12/5/2008	Shallow	81	82	82
GP-T53-03	LL1	506959.98	2606501.18	12/5/2008	Intermediate	91	92	26
GP-T53-03	LL1	506959.98	2606501.18	12/5/2008	Intermediate	101	102	51
GP-T53-03	LL1	506959.98	2606501.18	12/5/2008	Intermediate	111	112	51
GP-T53-03	LL1	506959.98	2606501.18	12/5/2008	Intermediate	121	122	91
GP-T53-03	LL1	506959.98	2606501.18	12/5/2008	Intermediate	131	132	50
GP-T53-04	LL1	507089.22	2606946.91	12/9/2008	Shallow	49	50	ND
GP-T53-04	LL1	507089.22	2606946.91	12/9/2008	Shallow	59	60	ND
GP-T53-04	LL1	507089.22	2606946.91	12/9/2008	Shallow	69	70	ND
GP-T53-04	LL1	507089.22	2606946.91	12/9/2008	Shallow	79	80	ND
GP-T53-04	LL1	507089.22	2606946.91	12/9/2008	Intermediate	89	90	ND
GP-T53-04	LL1	507089.22	2606946.91	12/9/2008	Intermediate	99	100	ND
GP-T53-04	LL1	507089.22	2606946.91	12/9/2008	Intermediate	109	110	ND
GP-T53-04	LL1	507089.22	2606946.91	12/9/2008	Intermediate	119	120	ND
GP-T53-04	LL1	507089.22	2606946.91	12/9/2008	Intermediate	129	130	1.1
GP-T54-01	LL1	505750.14	2607306.85	12/17/2008	Shallow	51	52	2.6
GP-T54-01	LL1	505750.14	2607306.85	12/17/2008	Shallow	61	62	1.3
GP-T54-01	LL1	505750.14	2607306.85	12/17/2008	Shallow	71	72	4.2
GP-T54-01	LL1	505750.14	2607306.85	12/17/2008	Shallow	81	82	2.3
GP-T54-01	LL1	505750.14	2607306.85	12/17/2008	Intermediate	91	92	2.1
GP-T54-01	LL1	505750.14	2607306.85	12/17/2008	Intermediate	101	102	4.2
GP-T54-01	LL1	505750.14	2607306.85	12/17/2008	Intermediate	111	112	0.3 J
GP-T54-01	LL1	505750.14	2607306.85	12/17/2008	Intermediate	121	122	ND
GP-T54-01	LL1	505750.14	2607306.85	12/17/2008	Intermediate	131	132	ND
GP-T54-02	LL1	505900.47	2607762.52	12/10/2008	Shallow	51	52	ND
GP-T54-02	LL1	505900.47	2607762.52	12/10/2008	Shallow	61	62	ND
GP-T54-02	LL1	505900.47	2607762.52	12/10/2008	Shallow	71	72	ND
GP-T54-02	LL1	505900.47	2607762.52	12/10/2008	Shallow	81	82	ND
GP-T54-02	LL1	505900.47	2607762.52	12/10/2008	Shallow	91	92	ND
GP-T54-02	LL1	505900.47	2607762.52	12/10/2008	Intermediate	101	102	ND
GP-T54-02	LL1	505900.47	2607762.52	12/10/2008	Intermediate	111	112	ND
GP-T54-02	LL1	505900.47	2607762.52	12/10/2008	Intermediate	121	122	ND
GP-T54-02	LL1	505900.47	2607762.52	12/10/2008	Intermediate	131	132	ND
GP-T54-02	LL1	505900.47	2607762.52	12/10/2008	Intermediate	141	142	ND
GP-T54-03	LL1	506024.71	2608101.97	12/10/2008	Shallow	50	51	1.9
GP-T54-03	LL1	506024.71	2608101.97	12/10/2008	Shallow	60	61	18
GP-T54-03	LL1	506024.71	2608101.97	12/10/2008	Shallow	70	71	14
GP-T54-03	LL1	506024.71	2608101.97	12/10/2008	Shallow	80	81	22
GP-T54-03	LL1	506024.71	2608101.97	12/9/2008	Shallow	90	91	2.7
GP-T54-03	LL1	506024.71	2608101.97	12/9/2008	Intermediate	100	101	ND
GP-T54-03	LL1	506024.71	2608101.97	12/9/2008	Intermediate	110	111	ND
GP-T54-03	LL1	506024.71	2608101.97	12/9/2008	Intermediate	120	121	ND
GP-T54-03	LL1	506024.71	2608101.97	12/9/2008	Intermediate	130	131	ND
GP-T54-03	LL1	506024.71	2608101.97	12/9/2008	Intermediate	140	141	ND
GP-T54-04	LL1	505450.25	2608621.92	12/22/2008	Shallow	47	48	1.3
GP-T54-04	LL1	505450.25	2608621.92	12/22/2008	Shallow	57	58	44

Table 3-2
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T54-04	LL1	505450.25	2608621.92	12/22/2008	Shallow	67	68	0.7 J
GP-T54-04	LL1	505450.25	2608621.92	12/22/2008	Shallow	77	78	ND
GP-T54-04	LL1	505450.25	2608621.92	12/22/2008	Shallow	87	88	ND
GP-T54-04	LL1	505450.25	2608621.92	12/22/2008	Intermediate	97	98	0.4 J
GP-T54-04	LL1	505450.25	2608621.92	12/22/2008	Intermediate	107	108	ND
GP-T54-04	LL1	505450.25	2608621.92	12/22/2008	Intermediate	117	118	0.5 J
GP-T54-04	LL1	505450.25	2608621.92	12/22/2008	Intermediate	127	128	ND
GP-T54-04	LL1	505450.25	2608621.92	12/21/2008	Intermediate	137	138	ND
GP-T54-05	LL1	506213.63	2608597.76	12/21/2008	Shallow	53	54	ND
GP-T54-05	LL1	506213.63	2608597.76	12/21/2008	Shallow	63	64	1.8
GP-T54-05	LL1	506213.63	2608597.76	12/21/2008	Shallow	73	74	6.3
GP-T54-05	LL1	506213.63	2608597.76	12/21/2008	Shallow	83	84	35
GP-T54-05	LL1	506213.63	2608597.76	12/21/2008	Shallow	93	94	22
GP-T54-05	LL1	506213.63	2608597.76	12/21/2008	Intermediate	103	104	18
GP-T54-05	LL1	506213.63	2608597.76	12/21/2008	Intermediate	113	114	0.2 J
GP-T54-05	LL1	506213.63	2608597.76	12/20/2008	Intermediate	123	124	ND
GP-T54-05	LL1	506213.63	2608597.76	12/20/2008	Intermediate	133	134	ND
GP-T54-05	LL1	506213.63	2608597.76	12/20/2008	Intermediate	143	144	ND
GP-T54-06	LL1	506225.83	2607926.93	12/20/2008	Shallow	53	54	ND
GP-T54-06	LL1	506225.83	2607926.93	12/20/2008	Shallow	63	64	ND
GP-T54-06	LL1	506225.83	2607926.93	12/20/2008	Shallow	73	74	ND
GP-T54-06	LL1	506225.83	2607926.93	12/20/2008	Shallow	83	84	ND
GP-T54-06	LL1	506225.83	2607926.93	12/20/2008	Shallow	93	94	ND
GP-T54-06	LL1	506225.83	2607926.93	12/20/2008	Intermediate	103	104	ND
GP-T54-06	LL1	506225.83	2607926.93	12/20/2008	Intermediate	113	114	ND
GP-T54-06	LL1	506225.83	2607926.93	12/19/2008	Intermediate	123	124	ND
GP-T54-06	LL1	506225.83	2607926.93	12/19/2008	Intermediate	133	134	ND
GP-T54-06	LL1	506225.83	2607926.93	12/19/2008	Intermediate	143	144	ND
GP-T55-01	LL1	504273.64	2607044.95	12/7/2008	Shallow	43	44	300
GP-T55-01	LL1	504273.64	2607044.95	12/7/2008	Shallow	53	54	3300 J
GP-T55-01	LL1	504273.64	2607044.95	12/7/2008	Shallow	63	64	3000 J
GP-T55-01	LL1	504273.64	2607044.95	12/7/2008	Shallow	73	74	3600
GP-T55-01	LL1	504273.64	2607044.95	12/7/2008	Shallow	83	84	1600 J
GP-T55-01	LL1	504273.64	2607044.95	12/7/2008	Intermediate	93	94	1300 J
GP-T55-01	LL1	504273.64	2607044.95	12/7/2008	Intermediate	103	104	810 J
GP-T55-01	LL1	504273.64	2607044.95	12/7/2008	Intermediate	113	114	660 J
GP-T55-01	LL1	504273.64	2607044.95	12/7/2008	Intermediate	123	124	1900 J
GP-T55-01	LL1	504273.64	2607044.95	12/7/2008	Intermediate	133	134	1700 J
GP-T55-02	LL1	504353.04	2607241.04	12/7/2008	Shallow	44	45	1200 J
GP-T55-02	LL1	504353.04	2607241.04	12/7/2008	Shallow	54	55	3800 J
GP-T55-02	LL1	504353.04	2607241.04	12/7/2008	Shallow	64	65	9000 J
GP-T55-02	LL1	504353.04	2607241.04	12/7/2008	Shallow	74	75	11000 J
GP-T55-02	LL1	504353.04	2607241.04	12/6/2008	Shallow	84	85	4100 J
GP-T55-02	LL1	504353.04	2607241.04	12/6/2008	Intermediate	94	95	7000 J
GP-T55-02	LL1	504353.04	2607241.04	12/6/2008	Intermediate	104	105	8300 J
GP-T55-02	LL1	504353.04	2607241.04	12/6/2008	Intermediate	114	115	11000 J
GP-T55-02	LL1	504353.04	2607241.04	12/6/2008	Intermediate	124	125	11000 J
GP-T55-02	LL1	504353.04	2607241.04	12/6/2008	Intermediate	124	125	8300
GP-T55-02	LL1	504353.04	2607241.04	12/6/2008	Intermediate	134	135	4200 J
GP-T55-03	LL1	504487.13	2607494.36	12/8/2008	Shallow	51	52	1300 J

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T55-03	LL1	504487.13	2607494.36	12/8/2008	Shallow	61	62	7000 J
GP-T55-03	LL1	504487.13	2607494.36	12/8/2008	Shallow	71	72	7200 J
GP-T55-03	LL1	504487.13	2607494.36	12/8/2008	Shallow	81	82	8800 J
GP-T55-03	LL1	504487.13	2607494.36	12/8/2008	Shallow	91	92	11000 J
GP-T55-03	LL1	504487.13	2607494.36	12/8/2008	Intermediate	101	102	9600 J
GP-T55-03	LL1	504487.13	2607494.36	12/8/2008	Intermediate	111	112	12000
GP-T55-03	LL1	504487.13	2607494.36	12/8/2008	Intermediate	121	122	10000
GP-T55-03	LL1	504487.13	2607494.36	12/8/2008	Intermediate	131	132	6500
GP-T55-03	LL1	504487.13	2607494.36	12/8/2008	Intermediate	131	132	6700
GP-T55-03	LL1	504487.13	2607494.36	12/8/2008	Intermediate	141	142	6000
GP-T55-04	LL1	504669.64	2607856.50	12/17/2008	Shallow	55	56	2.1
GP-T55-04	LL1	504669.64	2607856.50	12/17/2008	Shallow	65	66	1.6
GP-T55-04	LL1	504669.64	2607856.50	12/17/2008	Shallow	75	76	4.5
GP-T55-04	LL1	504669.64	2607856.50	12/17/2008	Shallow	85	86	6.3
GP-T55-04	LL1	504669.64	2607856.50	12/17/2008	Intermediate	95	96	9.8
GP-T55-04	LL1	504669.64	2607856.50	12/17/2008	Intermediate	105	106	26
GP-T55-04	LL1	504669.64	2607856.50	12/17/2008	Intermediate	115	116	45
GP-T55-04	LL1	504669.64	2607856.50	12/17/2008	Intermediate	125	126	120
GP-T55-04	LL1	504669.64	2607856.50	12/17/2008	Intermediate	135	136	520
GP-T55-05	LL1	504804.03	2608116.05	12/7/2008	Shallow	54	55	0.3 J
GP-T55-05	LL1	504804.03	2608116.05	12/7/2008	Shallow	64	65	ND
GP-T55-05	LL1	504804.03	2608116.05	12/7/2008	Shallow	74	75	ND
GP-T55-05	LL1	504804.03	2608116.05	12/7/2008	Shallow	84	85	ND
GP-T55-05	LL1	504804.03	2608116.05	12/7/2008	Shallow	94	95	ND
GP-T55-05	LL1	504804.03	2608116.05	12/7/2008	Intermediate	104	105	ND
GP-T55-05	LL1	504804.03	2608116.05	12/7/2008	Intermediate	114	115	ND
GP-T55-05	LL1	504804.03	2608116.05	12/7/2008	Intermediate	124	125	ND
GP-T55-05	LL1	504804.03	2608116.05	12/7/2008	Intermediate	134	135	ND
GP-T55-05	LL1	504804.03	2608116.05	12/7/2008	Intermediate	144	145	ND
GP-T56-01	LL1	501192.67	2608792.24	12/18/2008	Shallow	49	50	53
GP-T56-01	LL1	501192.67	2608792.24	12/18/2008	Shallow	59	60	280
GP-T56-01	LL1	501192.67	2608792.24	12/18/2008	Shallow	69	70	560
GP-T56-01	LL1	501192.67	2608792.24	12/18/2008	Intermediate	79	80	790
GP-T56-01	LL1	501192.67	2608792.24	12/18/2008	Intermediate	89	90	820
GP-T56-01	LL1	501192.67	2608792.24	12/18/2008	Intermediate	99	100	390
GP-T56-01	LL1	501192.67	2608792.24	12/18/2008	Intermediate	109	110	330
GP-T56-01	LL1	501192.67	2608792.24	12/18/2008	Intermediate	109	110	360
GP-T56-02	LL1	501614.90	2609130.77	12/15/2008	Shallow	49	50	3000
GP-T56-02	LL1	501614.90	2609130.77	12/15/2008	Shallow	59	60	14000
GP-T56-02	LL1	501614.90	2609130.77	12/15/2008	Shallow	69	70	16000
GP-T56-02	LL1	501614.90	2609130.77	12/15/2008	Shallow	79	80	15000
GP-T56-02	LL1	501614.90	2609130.77	12/15/2008	Intermediate	89	90	13000
GP-T56-02	LL1	501614.90	2609130.77	12/15/2008	Intermediate	99	100	13000
GP-T56-02	LL1	501614.90	2609130.77	12/15/2008	Intermediate	109	110	9700
GP-T56-02	LL1	501614.90	2609130.77	12/15/2008	Intermediate	109	110	9800
GP-T56-02	LL1	501614.90	2609130.77	12/15/2008	Intermediate	119	120	2800
GP-T56-03	LL1	501678.16	2609313.55	12/16/2008	Shallow	57	58	43
GP-T56-03	LL1	501678.16	2609313.55	12/16/2008	Shallow	67	68	91
GP-T56-03	LL1	501678.16	2609313.55	12/15/2008	Shallow	77	78	300
GP-T56-03	LL1	501678.16	2609313.55	12/15/2008	Intermediate	87	88	920

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T56-03	LL1	501678.16	2609313.55	12/15/2008	Intermediate	97	98	7800
GP-T56-03	LL1	501678.16	2609313.55	12/15/2008	Intermediate	107	108	7700
GP-T56-03	LL1	501678.16	2609313.55	12/15/2008	Intermediate	117	118	9500
GP-T56-03	LL1	501678.16	2609313.55	12/15/2008	Intermediate	117	118	10000
GP-T56-03	LL1	501678.16	2609313.55	12/15/2008	Intermediate	127	128	7300
GP-T56-04	LL1	501902.04	2609518.35	12/16/2008	Shallow	54	55	5.7
GP-T56-04	LL1	501902.04	2609518.35	12/16/2008	Shallow	64	65	15
GP-T56-04	LL1	501902.04	2609518.35	12/16/2008	Shallow	74	75	24
GP-T56-04	LL1	501902.04	2609518.35	12/16/2008	Shallow	84	85	82
GP-T56-04	LL1	501902.04	2609518.35	12/16/2008	Intermediate	94	95	410
GP-T56-04	LL1	501902.04	2609518.35	12/16/2008	Intermediate	104	105	1000
GP-T56-04	LL1	501902.04	2609518.35	12/16/2008	Intermediate	114	115	270
GP-T56-04	LL1	501902.04	2609518.35	12/16/2008	Intermediate	124	125	48
GP-T56-04	LL1	501902.04	2609518.35	12/16/2008	Intermediate	124	125	52
GP-T57-01	LL1	499270.24	2607901.91	11/22/2008	Shallow	53	54	ND
GP-T57-01	LL1	499270.24	2607901.91	11/22/2008	Shallow	63	64	ND
GP-T57-01	LL1	499270.24	2607901.91	11/22/2008	Shallow	73	74	ND
GP-T57-01	LL1	499270.24	2607901.91	11/22/2008	Shallow	83	84	ND
GP-T57-01	LL1	499270.24	2607901.91	12/3/2008	Intermediate	93	94	ND
GP-T57-01	LL1	499270.24	2607901.91	11/22/2008	Intermediate	103	104	ND
GP-T57-01	LL1	499270.24	2607901.91	12/3/2008	Intermediate	113	114	ND
GP-T57-01	LL1	499270.24	2607901.91	11/22/2008	Intermediate	123	124	ND
GP-T57-01	LL1	499270.24	2607901.91	11/21/2008	Intermediate	133	134	ND
GP-T57-02	LL1	499877.48	2608330.75	11/21/2008	Shallow	56	57	29
GP-T57-02	LL1	499877.48	2608330.75	11/21/2008	Shallow	63	64	11
GP-T57-02	LL1	499877.48	2608330.75	11/21/2008	Shallow	73	74	14
GP-T57-02	LL1	499877.48	2608330.75	11/21/2008	Shallow	83	84	16
GP-T57-02	LL1	499877.48	2608330.75	11/21/2008	Shallow	83	84	17
GP-T57-02	LL1	499877.48	2608330.75	11/21/2008	Shallow	93	94	42
GP-T57-02	LL1	499877.48	2608330.75	11/21/2008	Intermediate	103	104	120
GP-T57-02	LL1	499877.48	2608330.75	11/21/2008	Intermediate	113	114	190
GP-T57-02	LL1	499877.48	2608330.75	11/20/2008	Intermediate	123	124	140
GP-T57-02	LL1	499877.48	2608330.75	11/20/2008	Intermediate	133	134	140
GP-T57-03	LL1	499962.08	2608852.45	11/20/2008	Shallow	64	65	13
GP-T57-03	LL1	499962.08	2608852.45	11/20/2008	Shallow	74	75	36
GP-T57-03	LL1	499962.08	2608852.45	11/20/2008	Shallow	84	85	61
GP-T57-03	LL1	499962.08	2608852.45	11/20/2008	Shallow	94	95	63
GP-T57-03	LL1	499962.08	2608852.45	11/20/2008	Intermediate	104	105	40
GP-T57-03	LL1	499962.08	2608852.45	11/20/2008	Intermediate	114	115	91
GP-T57-03	LL1	499962.08	2608852.45	11/20/2008	Intermediate	124	125	28
GP-T57-03	LL1	499962.08	2608852.45	11/20/2008	Intermediate	134	135	69
GP-T57-03	LL1	499962.08	2608852.45	11/20/2008	Intermediate	139	140	120
GP-T57-04	LL1	500019.47	2609705.13	11/18/2008	Shallow	64	65	120
GP-T57-04	LL1	500019.47	2609705.13	11/18/2008	Shallow	74	75	420
GP-T57-04	LL1	500019.47	2609705.13	11/18/2008	Shallow	84	85	410
GP-T57-04	LL1	500019.47	2609705.13	11/18/2008	Shallow	84	85	460
GP-T57-04	LL1	500019.47	2609705.13	11/18/2008	Shallow	94	95	240
GP-T57-04	LL1	500019.47	2609705.13	11/18/2008	Intermediate	104	105	680
GP-T57-04	LL1	500019.47	2609705.13	11/18/2008	Intermediate	114	115	720
GP-T57-04	LL1	500019.47	2609705.13	11/18/2008	Intermediate	124	125	96

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T57-04	LL1	500019.47	2609705.13	11/18/2008	Intermediate	134	135	5.3
GP-T57-04	LL1	500019.47	2609705.13	11/18/2008	Intermediate	140	141	12
GP-T57-05	LL1	500036.53	2610331.29	11/18/2008	Shallow	63	64	ND
GP-T57-05	LL1	500036.53	2610331.29	11/18/2008	Shallow	73	74	ND
GP-T57-05	LL1	500036.53	2610331.29	11/17/2008	Shallow	83	84	ND
GP-T57-05	LL1	500036.53	2610331.29	11/17/2008	Shallow	93	94	ND
GP-T57-05	LL1	500036.53	2610331.29	11/17/2008	Intermediate	103	104	ND
GP-T57-05	LL1	500036.53	2610331.29	11/17/2008	Intermediate	113	114	ND
GP-T57-05	LL1	500036.53	2610331.29	11/17/2008	Intermediate	123	124	ND
GP-T57-05	LL1	500036.53	2610331.29	11/17/2008	Intermediate	130	131	ND
GP-T58-01	LL1	498149.76	2608172.40	11/19/2008	Shallow	56	57	ND
GP-T58-01	LL1	498149.76	2608172.40	11/19/2008	Shallow	66	67	ND
GP-T58-01	LL1	498149.76	2608172.40	11/19/2008	Shallow	76	77	ND
GP-T58-01	LL1	498149.76	2608172.40	11/19/2008	Shallow	86	87	ND
GP-T58-01	LL1	498149.76	2608172.40	11/19/2008	Intermediate	96	97	ND
GP-T58-01	LL1	498149.76	2608172.40	11/19/2008	Intermediate	106	107	ND
GP-T58-01	LL1	498149.76	2608172.40	11/19/2008	Intermediate	116	117	ND
GP-T58-01	LL1	498149.76	2608172.40	11/19/2008	Intermediate	126	127	ND
GP-T58-02	LL1	498185.62	2609246.86	11/20/2008	Shallow	66	67	160
GP-T58-02	LL1	498185.62	2609246.86	11/20/2008	Shallow	76	77	370
GP-T58-02	LL1	498185.62	2609246.86	11/20/2008	Shallow	76	77	390
GP-T58-02	LL1	498185.62	2609246.86	11/20/2008	Shallow	86	87	420
GP-T58-02	LL1	498185.62	2609246.86	11/20/2008	Shallow	96	97	3500
GP-T58-02	LL1	498185.62	2609246.86	11/20/2008	Intermediate	106	107	4400 J
GP-T58-02	LL1	498185.62	2609246.86	11/20/2008	Intermediate	116	117	2700 J
GP-T58-02	LL1	498185.62	2609246.86	11/20/2008	Intermediate	126	127	1200 J
GP-T58-02	LL1	498185.62	2609246.86	11/19/2008	Intermediate	136	137	910 J
GP-T58-03	LL1	498187.09	2609655.57	11/20/2008	Shallow	65	66	350
GP-T58-03	LL1	498187.09	2609655.57	11/20/2008	Shallow	75	76	200
GP-T58-03	LL1	498187.09	2609655.57	11/20/2008	Shallow	85	86	260
GP-T58-03	LL1	498187.09	2609655.57	11/20/2008	Shallow	85	86	280
GP-T58-03	LL1	498187.09	2609655.57	11/20/2008	Shallow	95	96	480
GP-T58-03	LL1	498187.09	2609655.57	11/20/2008	Intermediate	105	106	500
GP-T58-03	LL1	498187.09	2609655.57	11/20/2008	Intermediate	115	116	300
GP-T58-03	LL1	498187.09	2609655.57	11/20/2008	Intermediate	125	126	150 J
GP-T58-03	LL1	498187.09	2609655.57	11/20/2008	Intermediate	135	136	200
GP-T58-04	LL1	498196.08	2610169.39	12/8/2008	Shallow	59	60	ND
GP-T58-04	LL1	498196.08	2610169.39	12/8/2008	Shallow	69	70	2.9
GP-T58-04	LL1	498196.08	2610169.39	12/8/2008	Shallow	79	80	2.1
GP-T58-04	LL1	498196.08	2610169.39	12/8/2008	Shallow	79	80	9.1
GP-T58-04	LL1	498196.08	2610169.39	12/8/2008	Shallow	89	90	8.5
GP-T58-04	LL1	498196.08	2610169.39	12/8/2008	Intermediate	99	100	36
GP-T58-04	LL1	498196.08	2610169.39	12/8/2008	Intermediate	109	110	73
GP-T58-04	LL1	498196.08	2610169.39	12/8/2008	Intermediate	119	120	51
GP-T58-04	LL1	498196.08	2610169.39	12/8/2008	Intermediate	129	130	56
GP-T58-04	LL1	498196.08	2610169.39	12/8/2008	Intermediate	139	140	7.6
GP-T58-05	LL1	498212.55	2610636.72	12/9/2008	Shallow	59	60	ND
GP-T58-05	LL1	498212.55	2610636.72	12/9/2008	Shallow	69	70	ND
GP-T58-05	LL1	498212.55	2610636.72	12/9/2008	Shallow	79	80	ND
GP-T58-05	LL1	498212.55	2610636.72	12/9/2008	Shallow	89	90	ND

Table 3-2
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T58-05	LL1	498212.55	2610636.72	12/8/2008	Intermediate	99	100	18
GP-T58-05	LL1	498212.55	2610636.72	12/8/2008	Intermediate	109	110	12
GP-T58-05	LL1	498212.55	2610636.72	12/8/2008	Intermediate	119	120	8.5
GP-T58-05	LL1	498212.55	2610636.72	12/8/2008	Intermediate	129	130	ND
GP-T58-05	LL1	498212.55	2610636.72	12/8/2008	Intermediate	139	140	1.5
GP-T58-06	LL1	498154.73	2611022.78	11/19/2008	Shallow	65	66	ND
GP-T58-06	LL1	498154.73	2611022.78	11/19/2008	Shallow	75	76	ND
GP-T58-06	LL1	498154.73	2611022.78	11/19/2008	Shallow	85	86	ND
GP-T58-06	LL1	498154.73	2611022.78	11/19/2008	Shallow	95	96	ND
GP-T58-06	LL1	498154.73	2611022.78	11/19/2008	Intermediate	105	106	ND
GP-T58-06	LL1	498154.73	2611022.78	11/18/2008	Intermediate	115	116	ND
GP-T58-06	LL1	498154.73	2611022.78	12/9/2008	Intermediate	125	126	ND
GP-T58-06	LL1	498154.73	2611022.78	11/18/2008	Intermediate	135	136	ND
GP-T58-07	LL1	498159.36	2611284.99	11/18/2008	Shallow	61	62	ND
GP-T58-07	LL1	498159.36	2611284.99	11/18/2008	Shallow	71	72	ND
GP-T58-07	LL1	498159.36	2611284.99	11/18/2008	Shallow	81	82	ND
GP-T58-07	LL1	498159.36	2611284.99	11/18/2008	Shallow	91	92	ND
GP-T58-07	LL1	498159.36	2611284.99	11/18/2008	Intermediate	101	102	ND
GP-T58-07	LL1	498159.36	2611284.99	11/18/2008	Intermediate	111	112	ND
GP-T58-07	LL1	498159.36	2611284.99	11/18/2008	Intermediate	121	122	ND
GP-T58-07	LL1	498159.36	2611284.99	11/18/2008	Intermediate	131	132	ND
GP-T59-01	LL1	496934.75	2608755.14	11/19/2008	Shallow	65	66	ND
GP-T59-01	LL1	496934.75	2608755.14	11/19/2008	Shallow	75	76	ND
GP-T59-01	LL1	496934.75	2608755.14	11/19/2008	Shallow	85	86	ND
GP-T59-01	LL1	496934.75	2608755.14	11/19/2008	Intermediate	95	96	0.8 J
GP-T59-01	LL1	496934.75	2608755.14	11/19/2008	Intermediate	105	106	0.9 J
GP-T59-01	LL1	496934.75	2608755.14	11/19/2008	Intermediate	115	116	2.5
GP-T59-01	LL1	496934.75	2608755.14	11/19/2008	Intermediate	125	126	4.2 J
GP-T59-01	LL1	496934.75	2608755.14	11/19/2008	Intermediate	125	126	4.5 J
GP-T59-02	LL1	496945.01	2609471.91	11/22/2008	Shallow	63	64	230
GP-T59-02	LL1	496945.01	2609471.91	12/16/2008	Shallow	73	74	710
GP-T59-02	LL1	496945.01	2609471.91	11/22/2008	Shallow	83	84	1700
GP-T59-02	LL1	496945.01	2609471.91	11/22/2008	Shallow	93	94	2100
GP-T59-02	LL1	496945.01	2609471.91	11/22/2008	Intermediate	103	104	2500
GP-T59-02	LL1	496945.01	2609471.91	12/16/2008	Intermediate	113	114	2600
GP-T59-02	LL1	496945.01	2609471.91	11/22/2008	Intermediate	123	124	3000
GP-T59-02	LL1	496945.01	2609471.91	12/16/2008	Intermediate	133	134	3200
GP-T59-03	LL1	496876.62	2609885.25	11/23/2008	Shallow	62	63	180
GP-T59-03	LL1	496876.62	2609885.25	11/23/2008	Shallow	72	73	350
GP-T59-03	LL1	496876.62	2609885.25	11/23/2008	Shallow	82	83	1400
GP-T59-03	LL1	496876.62	2609885.25	11/23/2008	Shallow	92	93	1800
GP-T59-03	LL1	496876.62	2609885.25	12/16/2008	Intermediate	102	103	2000
GP-T59-03	LL1	496876.62	2609885.25	11/23/2008	Intermediate	112	113	2100
GP-T59-03	LL1	496876.62	2609885.25	12/16/2008	Intermediate	122	123	1900
GP-T59-03	LL1	496876.62	2609885.25	11/23/2008	Intermediate	132	133	3500
GP-T59-04	LL1	497005.03	2610377.06	11/24/2008	Shallow	65	66	2.9
GP-T59-04	LL1	497005.03	2610377.06	11/24/2008	Shallow	75	76	11
GP-T59-04	LL1	497005.03	2610377.06	11/24/2008	Shallow	85	86	42
GP-T59-04	LL1	497005.03	2610377.06	11/24/2008	Shallow	95	96	64
GP-T59-04	LL1	497005.03	2610377.06	11/24/2008	Intermediate	105	106	77

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T59-04	LL1	497005.03	2610377.06	11/24/2008	Intermediate	115	116	92
GP-T59-04	LL1	497005.03	2610377.06	12/10/2008	Intermediate	125	126	65
GP-T59-04	LL1	497005.03	2610377.06	11/24/2008	Intermediate	135	136	7.9
GP-T59-05	LL1	497002.31	2610688.23	11/25/2008	Shallow	61	62	ND
GP-T59-05	LL1	497002.31	2610688.23	11/24/2008	Shallow	69	70	ND
GP-T59-05	LL1	497002.31	2610688.23	11/24/2008	Shallow	79	80	0.4 J
GP-T59-05	LL1	497002.31	2610688.23	11/24/2008	Shallow	89	90	ND
GP-T59-05	LL1	497002.31	2610688.23	12/16/2008	Shallow	99	100	ND
GP-T59-05	LL1	497002.31	2610688.23	11/25/2008	Intermediate	109	110	ND
GP-T59-05	LL1	497002.31	2610688.23	11/25/2008	Intermediate	119	120	ND
GP-T59-05	LL1	497002.31	2610688.23	11/25/2008	Intermediate	129	130	ND
GP-T59-05	LL1	497002.31	2610688.23	12/16/2008	Intermediate	139	140	ND
GP-T59-06	LL1	497095.23	2611228.85	11/25/2008	Shallow	61	62	ND
GP-T59-06	LL1	497095.23	2611228.85	11/25/2008	Shallow	67	68	ND
GP-T59-06	LL1	497095.23	2611228.85	11/25/2008	Shallow	77	78	ND
GP-T59-06	LL1	497095.23	2611228.85	11/25/2008	Shallow	87	88	ND
GP-T59-06	LL1	497095.23	2611228.85	11/25/2008	Shallow	97	98	ND
GP-T59-06	LL1	497095.23	2611228.85	11/25/2008	Intermediate	107	108	ND
GP-T59-06	LL1	497095.23	2611228.85	11/25/2008	Intermediate	117	118	ND
GP-T59-06	LL1	497095.23	2611228.85	11/25/2008	Intermediate	127	128	ND
GP-T59-06	LL1	497095.23	2611228.85	11/25/2008	Intermediate	137	138	ND
GP-T59-07	LL1	497172.06	2611693.27	11/17/2008	Shallow	61	62	ND
GP-T59-07	LL1	497172.06	2611693.27	11/17/2008	Shallow	71	72	ND
GP-T59-07	LL1	497172.06	2611693.27	11/17/2008	Shallow	81	82	ND
GP-T59-07	LL1	497172.06	2611693.27	11/17/2008	Shallow	91	92	ND
GP-T59-07	LL1	497172.06	2611693.27	11/17/2008	Intermediate	101	102	ND
GP-T59-07	LL1	497172.06	2611693.27	11/17/2008	Intermediate	111	112	ND
GP-T59-07	LL1	497172.06	2611693.27	11/17/2008	Intermediate	121	122	ND
GP-T59-07	LL1	497172.06	2611693.27	11/17/2008	Intermediate	131	132	ND
GP-T60-01	LL1	495500.02	2609280.81	11/19/2008	Shallow	55	56	ND
GP-T60-01	LL1	495500.02	2609280.81	11/19/2008	Shallow	65	66	ND
GP-T60-01	LL1	495500.02	2609280.81	11/19/2008	Shallow	75	76	ND
GP-T60-01	LL1	495500.02	2609280.81	11/19/2008	Shallow	85	86	ND
GP-T60-01	LL1	495500.02	2609280.81	11/19/2008	Intermediate	95	96	ND
GP-T60-01	LL1	495500.02	2609280.81	11/19/2008	Intermediate	105	106	ND
GP-T60-01	LL1	495500.02	2609280.81	11/19/2008	Intermediate	115	116	ND
GP-T60-01	LL1	495500.02	2609280.81	12/3/2008	Intermediate	123	124	ND
GP-T60-02	LL1	495519.89	2609526.97	11/25/2008	Shallow	55	56	ND
GP-T60-02	LL1	495519.89	2609526.97	11/25/2008	Shallow	65	66	0.3 J
GP-T60-02	LL1	495519.89	2609526.97	11/25/2008	Shallow	75	76	1.1
GP-T60-02	LL1	495519.89	2609526.97	11/25/2008	Shallow	75	76	1.3
GP-T60-02	LL1	495519.89	2609526.97	11/25/2008	Shallow	85	86	1.3
GP-T60-02	LL1	495519.89	2609526.97	11/25/2008	Intermediate	95	96	0.8 J
GP-T60-02	LL1	495519.89	2609526.97	12/4/2008	Intermediate	105	106	ND
GP-T60-02	LL1	495519.89	2609526.97	12/4/2008	Intermediate	115	116	ND
GP-T60-02	LL1	495519.89	2609526.97	12/4/2008	Intermediate	125	126	1.3
GP-T60-02	LL1	495519.89	2609526.97	11/24/2008	Intermediate	135	136	2.1
GP-T60-03	LL1	495522.74	2609871.74	11/24/2008	Shallow	62	63	0.7 J
GP-T60-03	LL1	495522.74	2609871.74	11/24/2008	Shallow	72	73	ND
GP-T60-03	LL1	495522.74	2609871.74	11/24/2008	Shallow	82	83	1.4

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T60-03	LL1	495522.74	2609871.74	11/24/2008	Shallow	92	93	14
GP-T60-03	LL1	495522.74	2609871.74	12/4/2008	Intermediate	102	103	2.4
GP-T60-03	LL1	495522.74	2609871.74	12/4/2008	Intermediate	112	113	0.8 J
GP-T60-03	LL1	495522.74	2609871.74	12/4/2008	Intermediate	122	123	10
GP-T60-03	LL1	495522.74	2609871.74	11/24/2008	Intermediate	132	133	5.3
GP-T60-04	LL1	495533.26	2610236.57	11/23/2008	Shallow	59	60	4
GP-T60-04	LL1	495533.26	2610236.57	11/23/2008	Shallow	69	70	7.6
GP-T60-04	LL1	495533.26	2610236.57	11/23/2008	Shallow	79	80	16
GP-T60-04	LL1	495533.26	2610236.57	11/23/2008	Shallow	89	90	180
GP-T60-04	LL1	495533.26	2610236.57	11/23/2008	Intermediate	99	100	180
GP-T60-04	LL1	495533.26	2610236.57	12/5/2008	Intermediate	109	110	5.5
GP-T60-04	LL1	495533.26	2610236.57	12/5/2008	Intermediate	119	120	9.9
GP-T60-04	LL1	495533.26	2610236.57	12/5/2008	Intermediate	129	130	100
GP-T60-05	LL1	495572.80	2610686.96	12/5/2008	Shallow	63	64	300
GP-T60-05	LL1	495572.80	2610686.96	11/22/2008	Shallow	73	74	800
GP-T60-05	LL1	495572.80	2610686.96	11/22/2008	Shallow	83	84	1300
GP-T60-05	LL1	495572.80	2610686.96	11/22/2008	Shallow	93	94	1600
GP-T60-05	LL1	495572.80	2610686.96	12/5/2008	Intermediate	103	104	1100 J
GP-T60-05	LL1	495572.80	2610686.96	12/5/2008	Intermediate	113	114	390
GP-T60-05	LL1	495572.80	2610686.96	12/5/2008	Intermediate	123	124	710 J
GP-T60-05	LL1	495572.80	2610686.96	11/22/2008	Intermediate	133	134	690
GP-T60-05	LL1	495572.80	2610686.96	11/22/2008	Intermediate	133	134	710
GP-T60-06	LL1	495597.11	2611146.11	11/22/2008	Shallow	68	69	ND
GP-T60-06	LL1	495597.11	2611146.11	11/22/2008	Shallow	78	79	ND
GP-T60-06	LL1	495597.11	2611146.11	12/5/2008	Shallow	88	89	1
GP-T60-06	LL1	495597.11	2611146.11	12/5/2008	Shallow	98	99	0.4 J
GP-T60-06	LL1	495597.11	2611146.11	11/21/2008	Intermediate	108	109	ND
GP-T60-06	LL1	495597.11	2611146.11	11/21/2008	Intermediate	118	119	ND
GP-T60-06	LL1	495597.11	2611146.11	11/21/2008	Intermediate	128	129	0.7 J
GP-T60-06	LL1	495597.11	2611146.11	11/21/2008	Intermediate	138	139	0.7 J
GP-T60-06	LL1	495597.11	2611146.11	11/21/2008	Intermediate	138	139	0.8 J
GP-T60-07	LL1	495700.51	2611605.05	11/21/2008	Shallow	63	64	0.2 J
GP-T60-07	LL1	495700.51	2611605.05	11/21/2008	Shallow	73	74	ND
GP-T60-07	LL1	495700.51	2611605.05	11/21/2008	Shallow	83	84	ND
GP-T60-07	LL1	495700.51	2611605.05	11/21/2008	Shallow	93	94	ND
GP-T60-07	LL1	495700.51	2611605.05	11/21/2008	Intermediate	103	104	ND
GP-T60-07	LL1	495700.51	2611605.05	11/21/2008	Intermediate	113	114	ND
GP-T60-07	LL1	495700.51	2611605.05	11/21/2008	Intermediate	123	124	ND
GP-T60-07	LL1	495700.51	2611605.05	11/21/2008	Intermediate	133	134	ND
GP-T70-001	LL1	504677.93	2609310.79	4/6/2010	Shallow	47	48	ND
GP-T70-001	LL1	504677.93	2609310.79	4/6/2010	Shallow	57	58	ND
GP-T70-001	LL1	504677.93	2609310.79	4/6/2010	Shallow	67	68	ND
GP-T70-001	LL1	504677.93	2609310.79	4/6/2010	Shallow	77	78	ND
GP-T70-001	LL1	504677.93	2609310.79	4/6/2010	Shallow	87	88	ND
GP-T70-001	LL1	504677.93	2609310.79	4/6/2010	Intermediate	97	98	ND
GP-T70-001	LL1	504677.93	2609310.79	4/5/2010	Intermediate	107	108	ND
GP-T70-001	LL1	504677.93	2609310.79	4/5/2010	Intermediate	117	118	ND
GP-T70-001	LL1	504677.93	2609310.79	4/5/2010	Intermediate	127	128	ND
GP-T70-001	LL1	504677.93	2609310.79	4/5/2010	Intermediate	137	138	ND
GP-T70-002	LL1	504382.72	2608934.93	4/7/2010	Shallow	55	56	0.31 J

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T70-002	LL1	504382.72	2608934.93	4/7/2010	Shallow	65	66	0.54 J
GP-T70-002	LL1	504382.72	2608934.93	4/7/2010	Shallow	75	76	0.91 J
GP-T70-002	LL1	504382.72	2608934.93	4/7/2010	Shallow	85	86	1.3
GP-T70-002	LL1	504382.72	2608934.93	4/7/2010	Intermediate	95	96	7
GP-T70-002	LL1	504382.72	2608934.93	4/7/2010	Intermediate	105	106	6.4
GP-T70-002	LL1	504382.72	2608934.93	4/7/2010	Intermediate	115	116	2
GP-T70-002	LL1	504382.72	2608934.93	4/7/2010	Intermediate	125	126	2.7
GP-T70-002	LL1	504382.72	2608934.93	4/7/2010	Intermediate	135	136	6.1
GP-T70-003	LL1	505474.24	2609277.61	4/8/2010	Shallow	47	48	1
GP-T70-003	LL1	505474.24	2609277.61	4/8/2010	Shallow	57	58	1
GP-T70-003	LL1	505474.24	2609277.61	4/8/2010	Shallow	67	68	1.2
GP-T70-003	LL1	505474.24	2609277.61	4/8/2010	Shallow	77	78	1.6
GP-T70-003	LL1	505474.24	2609277.61	4/8/2010	Shallow	77	78	1.7
GP-T70-003	LL1	505474.24	2609277.61	4/8/2010	Shallow	87	88	2
GP-T70-003	LL1	505474.24	2609277.61	4/8/2010	Intermediate	97	98	1.8
GP-T70-003	LL1	505474.24	2609277.61	4/8/2010	Intermediate	107	108	2.9
GP-T70-003	LL1	505474.24	2609277.61	4/8/2010	Intermediate	117	118	0.78 J
GP-T70-003	LL1	505474.24	2609277.61	4/8/2010	Intermediate	127	128	1.3
GP-T70-003	LL1	505474.24	2609277.61	4/8/2010	Intermediate	137	138	1.7
GP-T70-003	LL1	505474.24	2609277.61	4/8/2010	Intermediate	137	138	2.1
GP-T70-004	LL1	505474.24	2608990.05	4/9/2010	Shallow	49	50	0.59 J
GP-T70-004	LL1	505474.24	2608990.05	4/9/2010	Shallow	59	60	0.91 J
GP-T70-004	LL1	505474.24	2608990.05	4/9/2010	Shallow	69	70	1.2
GP-T70-004	LL1	505474.24	2608990.05	4/9/2010	Shallow	79	80	1.4
GP-T70-004	LL1	505474.24	2608990.05	4/9/2010	Intermediate	89	90	1.1
GP-T70-004	LL1	505474.24	2608990.05	4/9/2010	Intermediate	99	100	0.66 J
GP-T70-004	LL1	505474.24	2608990.05	4/8/2010	Intermediate	109	110	ND
GP-T70-004	LL1	505474.24	2608990.05	4/8/2010	Intermediate	119	120	ND
GP-T70-004	LL1	505474.24	2608990.05	4/8/2010	Intermediate	129	130	ND
GP-T70-005	LL1	506270.56	2609233.37	4/9/2010	Shallow	57	58	ND
GP-T70-005	LL1	506270.56	2609233.37	4/9/2010	Shallow	67	68	ND
GP-T70-005	LL1	506270.56	2609233.37	4/9/2010	Shallow	77	78	ND
GP-T70-005	LL1	506270.56	2609233.37	4/9/2010	Shallow	87	88	ND
GP-T70-005	LL1	506270.56	2609233.37	4/9/2010	Intermediate	97	98	ND
GP-T70-005	LL1	506270.56	2609233.37	4/9/2010	Intermediate	107	108	ND
GP-T70-005	LL1	506270.56	2609233.37	4/9/2010	Intermediate	117	118	ND
GP-T70-005	LL1	506270.56	2609233.37	4/9/2010	Intermediate	127	128	ND
GP-T70-005	LL1	506270.56	2609233.37	4/9/2010	Intermediate	137	138	ND
GP-T70-006	LL1	506273.10	2608923.87	4/12/2010	Shallow	57	58	0.64 J
GP-T70-006	LL1	506273.10	2608923.87	4/12/2010	Shallow	67	68	ND
GP-T70-006	LL1	506273.10	2608923.87	4/12/2010	Shallow	77	78	1.1
GP-T70-006	LL1	506273.10	2608923.87	4/12/2010	Shallow	87	88	ND
GP-T70-006	LL1	506273.10	2608923.87	4/12/2010	Intermediate	97	98	ND
GP-T70-006	LL1	506273.10	2608923.87	4/12/2010	Intermediate	107	108	ND
GP-T70-006	LL1	506273.10	2608923.87	4/12/2010	Intermediate	117	118	0.78 J
GP-T70-006	LL1	506273.10	2608923.87	4/12/2010	Intermediate	127	128	1.3
GP-T70-006	LL1	506273.10	2608923.87	4/12/2010	Intermediate	137	138	0.93 J
GP-T70-006	LL1	506273.10	2608923.87	4/12/2010	Intermediate	137	138	3.1
GP-T70-007	LL1	505300.27	2608105.82	4/12/2010	Shallow	49	50	ND
GP-T70-007	LL1	505300.27	2608105.82	4/12/2010	Shallow	59	60	ND

Table 3-2
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T70-007	LL1	505300.27	2608105.82	4/12/2010	Shallow	69	70	ND
GP-T70-007	LL1	505300.27	2608105.82	4/12/2010	Shallow	79	80	ND
GP-T70-007	LL1	505300.27	2608105.82	4/12/2010	Intermediate	89	90	ND
GP-T70-007	LL1	505300.27	2608105.82	4/12/2010	Intermediate	99	100	ND
GP-T70-007	LL1	505300.27	2608105.82	4/12/2010	Intermediate	109	110	ND
GP-T70-007	LL1	505300.27	2608105.82	4/12/2010	Intermediate	119	120	ND
GP-T70-007	LL1	505300.27	2608105.82	4/12/2010	Intermediate	119	120	ND
GP-T70-008	LL1	507179.50	2608315.47	4/12/2010	Shallow	45	46	ND
GP-T70-008	LL1	507179.50	2608315.47	4/12/2010	Shallow	55	56	0.63 J
GP-T70-008	LL1	507179.50	2608315.47	4/12/2010	Shallow	65	66	0.83 J
GP-T70-008	LL1	507179.50	2608315.47	4/12/2010	Shallow	75	76	ND
GP-T70-008	LL1	507179.50	2608315.47	4/12/2010	Intermediate	85	86	ND
GP-T70-008	LL1	507179.50	2608315.47	4/12/2010	Intermediate	95	96	ND
GP-T70-008	LL1	507179.50	2608315.47	4/12/2010	Intermediate	105	106	ND
GP-T70-008	LL1	507179.50	2608315.47	4/12/2010	Intermediate	115	116	ND
GP-T70-009	LL1	507053.80	2607911.33	4/13/2010	Shallow	57	58	ND
GP-T70-009	LL1	507053.80	2607911.33	4/13/2010	Shallow	67	68	ND
GP-T70-009	LL1	507053.80	2607911.33	4/13/2010	Shallow	77	78	ND
GP-T70-009	LL1	507053.80	2607911.33	4/13/2010	Shallow	87	88	ND
GP-T70-009	LL1	507053.80	2607911.33	4/13/2010	Intermediate	97	98	ND
GP-T70-009	LL1	507053.80	2607911.33	4/13/2010	Intermediate	107	108	ND
GP-T70-009	LL1	507053.80	2607911.33	4/13/2010	Intermediate	117	118	ND
GP-T70-009	LL1	507053.80	2607911.33	4/13/2010	Intermediate	127	128	ND
GP-T70-009	LL1	507053.80	2607911.33	4/13/2010	Intermediate	137	138	ND
GP-T70-010	LL1	506882.87	2607359.13	4/13/2010	Shallow	50	51	ND
GP-T70-010	LL1	506882.87	2607359.13	4/13/2010	Shallow	60	61	ND
GP-T70-010	LL1	506882.87	2607359.13	4/13/2010	Shallow	70	71	ND
GP-T70-010	LL1	506882.87	2607359.13	4/13/2010	Shallow	80	81	ND
GP-T70-010	LL1	506882.87	2607359.13	4/13/2010	Intermediate	90	91	ND
GP-T70-010	LL1	506882.87	2607359.13	4/13/2010	Intermediate	100	101	ND
GP-T70-010	LL1	506882.87	2607359.13	4/13/2010	Intermediate	110	111	ND
GP-T70-010	LL1	506882.87	2607359.13	4/13/2010	Intermediate	120	121	ND
GP-T70-010	LL1	506882.87	2607359.13	4/13/2010	Intermediate	130	131	ND
GP-T70-011	LL1	506854.34	2606882.14	4/14/2010	Shallow	48	49	7.7
GP-T70-011	LL1	506854.34	2606882.14	4/14/2010	Shallow	58	59	8.5
GP-T70-011	LL1	506854.34	2606882.14	4/14/2010	Shallow	68	69	ND
GP-T70-011	LL1	506854.34	2606882.14	4/14/2010	Shallow	78	79	ND
GP-T70-011	LL1	506854.34	2606882.14	4/14/2010	Intermediate	88	89	ND
GP-T70-011	LL1	506854.34	2606882.14	4/14/2010	Intermediate	98	99	ND
GP-T70-011	LL1	506854.34	2606882.14	4/14/2010	Intermediate	108	109	ND
GP-T70-011	LL1	506854.34	2606882.14	4/14/2010	Intermediate	118	119	ND
GP-T70-011	LL1	506854.34	2606882.14	4/14/2010	Intermediate	128	129	ND
GP-T70-012	LL1	503951.61	2609322.22	4/15/2010	Shallow	59	60	2
GP-T70-012	LL1	503951.61	2609322.22	4/15/2010	Shallow	69	70	1.7
GP-T70-012	LL1	503951.61	2609322.22	4/15/2010	Shallow	79	80	4.6
GP-T70-012	LL1	503951.61	2609322.22	4/15/2010	Shallow	89	90	4
GP-T70-012	LL1	503951.61	2609322.22	4/15/2010	Intermediate	99	100	6.3
GP-T70-012	LL1	503951.61	2609322.22	4/15/2010	Intermediate	109	110	4.3
GP-T70-012	LL1	503951.61	2609322.22	4/15/2010	Intermediate	119	120	2.2
GP-T70-012	LL1	503951.61	2609322.22	4/15/2010	Intermediate	129	130	0.63 J

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T70-012	LL1	503951.61	2609322.22	4/14/2010	Intermediate	139	140	0.32 J
GP-T70-013	LL1	503559.44	2609830.54	6/24/2010	Shallow	54	55	ND
GP-T70-013	LL1	503559.44	2609830.54	6/24/2010	Shallow	64	65	ND
GP-T70-013	LL1	503559.44	2609830.54	6/24/2010	Shallow	74	75	ND
GP-T70-013	LL1	503559.44	2609830.54	6/24/2010	Intermediate	84	85	ND
GP-T70-013	LL1	503559.44	2609830.54	6/24/2010	Intermediate	94	95	ND
GP-T70-013	LL1	503559.44	2609830.54	6/24/2010	Intermediate	104	105	ND
GP-T71-001	LL1	502130.69	2608467.68	4/22/2010	Shallow	49	50	800
GP-T71-001	LL1	502130.69	2608467.68	4/22/2010	Shallow	59	60	800
GP-T71-001	LL1	502130.69	2608467.68	4/22/2010	Shallow	69	70	3200
GP-T71-001	LL1	502130.69	2608467.68	4/22/2010	Shallow	79	80	7000
GP-T71-001	LL1	502130.69	2608467.68	4/22/2010	Intermediate	89	90	5300
GP-T71-001	LL1	502130.69	2608467.68	4/22/2010	Intermediate	99	100	5100
GP-T71-001	LL1	502130.69	2608467.68	4/22/2010	Intermediate	109	110	2200
GP-T71-001	LL1	502130.69	2608467.68	4/22/2010	Intermediate	119	120	2000
GP-T71-002	LL1	502592.59	2608446.42	4/26/2010	Shallow	49	50	1400
GP-T71-002	LL1	502592.59	2608446.42	4/26/2010	Shallow	59	60	11000
GP-T71-002	LL1	502592.59	2608446.42	4/26/2010	Shallow	69	70	11000
GP-T71-002	LL1	502592.59	2608446.42	4/26/2010	Shallow	79	80	11000
GP-T71-002	LL1	502592.59	2608446.42	4/26/2010	Intermediate	89	90	10000
GP-T71-002	LL1	502592.59	2608446.42	4/26/2010	Intermediate	99	100	8000
GP-T71-002	LL1	502592.59	2608446.42	4/26/2010	Intermediate	109	110	8500
GP-T71-002	LL1	502592.59	2608446.42	4/26/2010	Intermediate	119	120	1400
GP-T71-003	LL1	503110.92	2608423.34	4/27/2010	Shallow	59	60	360 J
GP-T71-003	LL1	503110.92	2608423.34	4/27/2010	Shallow	69	70	2400
GP-T71-003	LL1	503110.92	2608423.34	4/27/2010	Shallow	79	80	6000
GP-T71-003	LL1	503110.92	2608423.34	4/27/2010	Intermediate	89	90	7000
GP-T71-003	LL1	503110.92	2608423.34	4/27/2010	Intermediate	99	100	7500
GP-T71-003	LL1	503110.92	2608423.34	4/26/2010	Intermediate	109	110	12000
GP-T71-003	LL1	503110.92	2608423.34	4/26/2010	Intermediate	119	120	11000
GP-T71-004	LL1	503609.32	2608372.08	4/22/2010	Shallow	58	59	260
GP-T71-004	LL1	503609.32	2608372.08	4/22/2010	Shallow	68	69	1300
GP-T71-004	LL1	503609.32	2608372.08	4/22/2010	Shallow	78	79	1800
GP-T71-004	LL1	503609.32	2608372.08	4/22/2010	Intermediate	88	89	1900
GP-T71-004	LL1	503609.32	2608372.08	4/22/2010	Intermediate	98	99	1900
GP-T71-004	LL1	503609.32	2608372.08	4/22/2010	Intermediate	108	109	830
GP-T71-004	LL1	503609.32	2608372.08	4/22/2010	Intermediate	118	119	490
GP-T71-005	LL1	504092.32	2608344.53	4/23/2010	Shallow	59	60	26
GP-T71-005	LL1	504092.32	2608344.53	4/23/2010	Shallow	69	70	11 J
GP-T71-005	LL1	504092.32	2608344.53	4/23/2010	Shallow	79	80	16
GP-T71-005	LL1	504092.32	2608344.53	4/23/2010	Intermediate	89	90	110 J
GP-T71-005	LL1	504092.32	2608344.53	4/23/2010	Intermediate	99	100	110
GP-T71-005	LL1	504092.32	2608344.53	4/23/2010	Intermediate	109	110	190
GP-T71-005	LL1	504092.32	2608344.53	4/22/2010	Intermediate	119	120	600
GP-T71-006	LL1	504581.04	2608320.23	4/23/2010	Shallow	49	50	2.1
GP-T71-006	LL1	504581.04	2608320.23	4/23/2010	Shallow	59	60	ND
GP-T71-006	LL1	504581.04	2608320.23	4/23/2010	Shallow	69	70	6
GP-T71-006	LL1	504581.04	2608320.23	4/23/2010	Shallow	79	80	16
GP-T71-006	LL1	504581.04	2608320.23	4/23/2010	Intermediate	89	90	13
GP-T71-006	LL1	504581.04	2608320.23	4/23/2010	Intermediate	99	100	11

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T71-006	LL1	504581.04	2608320.23	4/23/2010	Intermediate	109	110	65
GP-T71-006	LL1	504581.04	2608320.23	4/23/2010	Intermediate	119	120	180
GP-T71-007	LL1	504854.89	2608308.07	6/23/2010	Shallow	48	49	0.7 J
GP-T71-007	LL1	504854.89	2608308.07	6/23/2010	Shallow	58	59	6.1
GP-T71-007	LL1	504854.89	2608308.07	6/23/2010	Shallow	68	69	31
GP-T71-007	LL1	504854.89	2608308.07	6/23/2010	Shallow	68	69	32
GP-T71-007	LL1	504854.89	2608308.07	6/23/2010	Intermediate	78	79	18
GP-T71-007	LL1	504854.89	2608308.07	6/23/2010	Intermediate	88	89	18
GP-T71-007	LL1	504854.89	2608308.07	6/23/2010	Intermediate	98	99	23
GP-T71-007	LL1	504854.89	2608308.07	6/23/2010	Intermediate	108	109	1.6
GP-T72-001	LL1	500418.64	2607636.81	4/22/2010	Shallow	57	58	ND
GP-T72-001	LL1	500418.64	2607636.81	4/22/2010	Shallow	67	68	ND
GP-T72-001	LL1	500418.64	2607636.81	4/22/2010	Shallow	77	78	ND
GP-T72-001	LL1	500418.64	2607636.81	4/22/2010	Intermediate	87	88	ND
GP-T72-001	LL1	500418.64	2607636.81	4/22/2010	Intermediate	97	98	ND
GP-T72-001	LL1	500418.64	2607636.81	4/22/2010	Intermediate	107	108	ND
GP-T72-002	LL1	500944.10	2607749.51	4/21/2010	Shallow	50	51	2.2
GP-T72-002	LL1	500944.10	2607749.51	4/21/2010	Shallow	60	61	9.4
GP-T72-002	LL1	500944.10	2607749.51	4/21/2010	Shallow	70	71	2.2
GP-T72-002	LL1	500944.10	2607749.51	4/21/2010	Intermediate	80	81	ND
GP-T72-002	LL1	500944.10	2607749.51	4/21/2010	Intermediate	90	91	ND
GP-T72-002	LL1	500944.10	2607749.51	4/21/2010	Intermediate	100	101	ND
GP-T72-002	LL1	500944.10	2607749.51	4/21/2010	Intermediate	110	111	ND
GP-T72-003	LL1	501090.71	2608067.53	4/22/2010	Shallow	59	60	46
GP-T72-003	LL1	501090.71	2608067.53	4/22/2010	Shallow	69	70	43
GP-T72-003	LL1	501090.71	2608067.53	4/21/2010	Shallow	79	80	22
GP-T72-003	LL1	501090.71	2608067.53	4/21/2010	Intermediate	89	90	20
GP-T72-003	LL1	501090.71	2608067.53	4/21/2010	Intermediate	99	100	14
GP-T72-003	LL1	501090.71	2608067.53	4/21/2010	Intermediate	109	110	9.5
GP-T72-003	LL1	501090.71	2608067.53	4/21/2010	Intermediate	119	120	9.1
GP-T72-004	LL1	501339.42	2608501.28	4/27/2010	Shallow	52	53	42
GP-T72-004	LL1	501339.42	2608501.28	4/27/2010	Shallow	62	63	200
GP-T72-004	LL1	501339.42	2608501.28	4/27/2010	Shallow	72	73	510
GP-T72-004	LL1	501339.42	2608501.28	4/27/2010	Intermediate	82	83	110
GP-T72-004	LL1	501339.42	2608501.28	4/27/2010	Intermediate	92	93	27
GP-T72-004	LL1	501339.42	2608501.28	4/27/2010	Intermediate	102	103	26 J
GP-T72-004	LL1	501339.42	2608501.28	4/27/2010	Intermediate	112	113	32
GP-T73-001	LL1	494211.51	2609681.33	4/20/2010	Shallow	38	39	ND
GP-T73-001	LL1	494211.51	2609681.33	4/20/2010	Shallow	48	49	ND
GP-T73-001	LL1	494211.51	2609681.33	4/20/2010	Shallow	58	59	ND
GP-T73-001	LL1	494211.51	2609681.33	4/20/2010	Shallow	68	69	ND
GP-T73-001	LL1	494211.51	2609681.33	4/20/2010	Intermediate	78	79	ND
GP-T73-001	LL1	494211.51	2609681.33	4/20/2010	Intermediate	88	89	ND
GP-T73-001	LL1	494211.51	2609681.33	4/20/2010	Intermediate	98	99	ND
GP-T73-001	LL1	494211.51	2609681.33	4/20/2010	Intermediate	108	109	ND
GP-T73-001	LL1	494211.51	2609681.33	4/19/2010	Intermediate	118	119	ND
GP-T73-002	LL1	494222.04	2610082.32	4/20/2010	Shallow	49	50	ND
GP-T73-002	LL1	494222.04	2610082.32	4/20/2010	Shallow	59	60	ND
GP-T73-002	LL1	494222.04	2610082.32	4/20/2010	Shallow	69	70	ND
GP-T73-002	LL1	494222.04	2610082.32	4/20/2010	Shallow	79	80	ND

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T73-002	LL1	494222.04	2610082.32	4/20/2010	Intermediate	89	90	ND
GP-T73-002	LL1	494222.04	2610082.32	4/20/2010	Intermediate	99	100	ND
GP-T73-002	LL1	494222.04	2610082.32	4/20/2010	Intermediate	109	110	ND
GP-T73-002	LL1	494222.04	2610082.32	4/20/2010	Intermediate	119	120	ND
GP-T73-003	LL1	494229.82	2610486.63	4/21/2010	Shallow	59	60	6.5
GP-T73-003	LL1	494229.82	2610486.63	4/21/2010	Shallow	69	70	11
GP-T73-003	LL1	494229.82	2610486.63	4/21/2010	Shallow	79	80	12
GP-T73-003	LL1	494229.82	2610486.63	4/21/2010	Intermediate	89	90	44
GP-T73-003	LL1	494229.82	2610486.63	4/21/2010	Intermediate	99	100	14
GP-T73-003	LL1	494229.82	2610486.63	4/21/2010	Intermediate	109	110	20
GP-T73-003	LL1	494229.82	2610486.63	4/21/2010	Intermediate	119	120	12
GP-T73-004	LL1	494230.52	2610862.81	4/20/2010	Shallow	49	50	20
GP-T73-004	LL1	494230.52	2610862.81	4/20/2010	Shallow	59	60	150
GP-T73-004	LL1	494230.52	2610862.81	4/20/2010	Shallow	69	70	300
GP-T73-004	LL1	494230.52	2610862.81	4/20/2010	Shallow	79	80	320
GP-T73-004	LL1	494230.52	2610862.81	4/20/2010	Intermediate	89	90	80
GP-T73-004	LL1	494230.52	2610862.81	4/20/2010	Intermediate	99	100	65
GP-T73-004	LL1	494230.52	2610862.81	4/20/2010	Intermediate	109	110	45
GP-T73-004	LL1	494230.52	2610862.81	4/20/2010	Intermediate	119	120	27
GP-T73-004	LL1	494230.52	2610862.81	4/20/2010	Intermediate	119	120	42
GP-T73-005	LL1	494243.57	2611320.83	4/20/2010	Shallow	49	50	70
GP-T73-005	LL1	494243.57	2611320.83	4/20/2010	Shallow	59	60	310
GP-T73-005	LL1	494243.57	2611320.83	4/20/2010	Shallow	69	70	350
GP-T73-005	LL1	494243.57	2611320.83	4/20/2010	Shallow	79	80	400
GP-T73-005	LL1	494243.57	2611320.83	4/20/2010	Intermediate	89	90	100
GP-T73-005	LL1	494243.57	2611320.83	4/20/2010	Intermediate	99	100	18
GP-T73-005	LL1	494243.57	2611320.83	4/19/2010	Intermediate	109	110	100
GP-T73-005	LL1	494243.57	2611320.83	4/19/2010	Intermediate	119	120	130
GP-T73-005	LL1	494243.57	2611320.83	4/19/2010	Intermediate	119	120	150
GP-T73-006	LL1	494251.09	2611705.48	4/21/2010	Shallow	43	44	1.3
GP-T73-006	LL1	494251.09	2611705.48	4/21/2010	Shallow	53	54	2.3
GP-T73-006	LL1	494251.09	2611705.48	4/21/2010	Shallow	63	64	4.4
GP-T73-006	LL1	494251.09	2611705.48	4/21/2010	Shallow	73	74	16
GP-T73-006	LL1	494251.09	2611705.48	4/21/2010	Intermediate	83	84	30
GP-T73-006	LL1	494251.09	2611705.48	4/21/2010	Intermediate	93	94	34
GP-T73-006	LL1	494251.09	2611705.48	4/21/2010	Intermediate	103	104	54
GP-T73-006	LL1	494251.09	2611705.48	4/21/2010	Intermediate	113	114	79
GP-T73-007	LL1	494249.79	2612028.54	7/1/2010	Shallow	48	49	ND
GP-T73-007	LL1	494249.79	2612028.54	7/1/2010	Shallow	58	59	ND
GP-T73-007	LL1	494249.79	2612028.54	7/1/2010	Shallow	68	69	ND
GP-T73-007	LL1	494249.79	2612028.54	7/1/2010	Shallow	78	79	ND
GP-T73-007	LL1	494249.79	2612028.54	7/1/2010	Intermediate	88	89	ND
GP-T73-007	LL1	494249.79	2612028.54	7/1/2010	Intermediate	98	99	ND
GP-T73-007	LL1	494249.79	2612028.54	7/1/2010	Intermediate	108	109	ND
GP-T73-007	LL1	494249.79	2612028.54	7/1/2010	Intermediate	118	119	ND
GP-T85-001	LL1	507371.56	2605761.05	12/22/2011	Shallow	41	42	ND
GP-T85-001	LL1	507371.56	2605761.05	12/22/2011	Shallow	51	52	ND
GP-T85-001	LL1	507371.56	2605761.05	12/22/2011	Shallow	61	62	ND
GP-T85-001	LL1	507371.56	2605761.05	12/22/2011	Shallow	71	72	ND
GP-T85-001	LL1	507371.56	2605761.05	12/22/2011	Shallow	71	72	ND

Table 3-2
TCE in Monitoring Wells and Direct-Push Samples (2008-2012)
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T85-001	LL1	507371.56	2605761.05	12/22/2011	Intermediate	81	82	ND
GP-T85-001	LL1	507371.56	2605761.05	12/22/2011	Intermediate	91	92	ND
GP-T85-001	LL1	507371.56	2605761.05	12/22/2011	Intermediate	101	102	ND
GP-T85-001	LL1	507371.56	2605761.05	12/22/2011	Intermediate	111	112	ND
GP-T85-001	LL1	507371.56	2605761.05	12/22/2011	Intermediate	121	122	ND
GP-T85-001	LL1	507371.56	2605761.05	12/22/2011	Intermediate	131	132	ND
GP-T85-002	LL1	506980.51	2605797.54	12/20/2011	Shallow	43	44	ND
GP-T85-002	LL1	506980.51	2605797.54	12/20/2011	Shallow	53	54	ND
GP-T85-002	LL1	506980.51	2605797.54	12/20/2011	Shallow	63	64	ND
GP-T85-002	LL1	506980.51	2605797.54	12/20/2011	Shallow	63	64	ND
GP-T85-002	LL1	506980.51	2605797.54	12/20/2011	Shallow	73	74	ND
GP-T85-002	LL1	506980.51	2605797.54	12/20/2011	Intermediate	83	84	ND
GP-T85-002	LL1	506980.51	2605797.54	12/20/2011	Intermediate	93	94	ND
GP-T85-002	LL1	506980.51	2605797.54	12/20/2011	Intermediate	93	94	ND
GP-T85-002	LL1	506980.51	2605797.54	12/20/2011	Intermediate	103	104	ND
GP-T85-002	LL1	506980.51	2605797.54	12/20/2011	Intermediate	113	114	ND
GP-T85-002	LL1	506980.51	2605797.54	12/20/2011	Intermediate	123	124	ND
GP-T85-002	LL1	506980.51	2605797.54	12/20/2011	Intermediate	133	134	ND
GP-T85-003	LL1	506647.77	2606067.74	12/20/2011	Shallow	50	51	2900
GP-T85-003	LL1	506647.77	2606067.74	12/20/2011	Shallow	60	61	5700
GP-T85-003	LL1	506647.77	2606067.74	12/20/2011	Shallow	70	71	4500
GP-T85-003	LL1	506647.77	2606067.74	12/20/2011	Intermediate	80	81	310
GP-T85-003	LL1	506647.77	2606067.74	12/20/2011	Intermediate	80	81	310
GP-T85-003	LL1	506647.77	2606067.74	12/20/2011	Intermediate	90	91	120
GP-T85-003	LL1	506647.77	2606067.74	12/20/2011	Intermediate	100	101	31
GP-T85-003	LL1	506647.77	2606067.74	12/20/2011	Intermediate	110	111	65
GP-T85-003	LL1	506647.77	2606067.74	12/20/2011	Intermediate	120	121	200
GP-T85-003	LL1	506647.77	2606067.74	12/20/2011	Intermediate	130	131	270
GP-T85-004	LL1	506259.14	2605983.50	12/20/2011	Shallow	39	40	0.41 J
GP-T85-004	LL1	506259.14	2605983.50	12/20/2011	Shallow	49	50	ND
GP-T85-004	LL1	506259.14	2605983.50	12/20/2011	Shallow	59	60	ND
GP-T85-004	LL1	506259.14	2605983.50	12/20/2011	Shallow	69	70	ND
GP-T85-004	LL1	506259.14	2605983.50	12/20/2011	Intermediate	79	80	ND
GP-T85-004	LL1	506259.14	2605983.50	12/20/2011	Intermediate	89	90	ND
GP-T85-004	LL1	506259.14	2605983.50	12/20/2011	Intermediate	89	90	ND
GP-T85-004	LL1	506259.14	2605983.50	12/20/2011	Intermediate	99	100	ND
GP-T85-004	LL1	506259.14	2605983.50	12/19/2011	Intermediate	109	110	ND
GP-T85-004	LL1	506259.14	2605983.50	12/19/2011	Intermediate	119	120	ND
GP-T85-004	LL1	506259.14	2605983.50	12/19/2011	Intermediate	129	130	ND
GP-T85-004	LL1	506259.14	2605983.50	12/19/2011	Intermediate	139	140	ND
GP-T85-005	LL1	505468.05	2606500.19	12/21/2011	Shallow	39	40	1.8
GP-T85-005	LL1	505468.05	2606500.19	12/21/2011	Shallow	49	50	0.65 J
GP-T85-005	LL1	505468.05	2606500.19	12/21/2011	Shallow	59	60	1.8
GP-T85-005	LL1	505468.05	2606500.19	12/21/2011	Shallow	69	70	2
GP-T85-005	LL1	505468.05	2606500.19	12/21/2011	Shallow	69	70	2
GP-T85-005	LL1	505468.05	2606500.19	12/21/2011	Intermediate	79	80	1.1
GP-T85-005	LL1	505468.05	2606500.19	12/21/2011	Intermediate	89	90	0.84 J
GP-T85-005	LL1	505468.05	2606500.19	12/21/2011	Intermediate	99	100	2.2
GP-T85-005	LL1	505468.05	2606500.19	12/21/2011	Intermediate	109	110	3.7
GP-T85-005	LL1	505468.05	2606500.19	12/21/2011	Intermediate	119	120	6

Table 3-2
TCE in Monitoring Wells and Direct-Push Samples (2008-2012)
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T85-005	LL1	505468.05	2606500.19	12/21/2011	Intermediate	129	130	12
GP-T85-006	LL1	505584.20	2606649.18	12/22/2011	Shallow	43	44	360
GP-T85-006	LL1	505584.20	2606649.18	12/22/2011	Shallow	53	54	1400
GP-T85-006	LL1	505584.20	2606649.18	12/22/2011	Shallow	63	64	1500
GP-T85-006	LL1	505584.20	2606649.18	12/22/2011	Shallow	63	64	1400
GP-T85-006	LL1	505584.20	2606649.18	12/22/2011	Shallow	73	74	3100 J
GP-T85-006	LL1	505584.20	2606649.18	12/22/2011	Shallow	73	74	1800
GP-T85-006	LL1	505584.20	2606649.18	12/21/2011	Intermediate	83	84	570
GP-T85-006	LL1	505584.20	2606649.18	12/21/2011	Intermediate	93	94	740
GP-T85-006	LL1	505584.20	2606649.18	12/21/2011	Intermediate	103	104	320
GP-T85-006	LL1	505584.20	2606649.18	12/21/2011	Intermediate	113	114	210 J
GP-T85-006	LL1	505584.20	2606649.18	12/21/2011	Intermediate	123	124	130
GP-T85-006	LL1	505584.20	2606649.18	12/21/2011	Intermediate	133	134	120 J
GP-T85-007	LL1	505729.94	2606848.41	1/5/2012	Shallow	41	42	360
GP-T85-007	LL1	505729.94	2606848.41	1/5/2012	Shallow	51	52	1400
GP-T85-007	LL1	505729.94	2606848.41	1/5/2012	Shallow	61	62	500
GP-T85-007	LL1	505729.94	2606848.41	1/5/2012	Shallow	71	72	460 J
GP-T85-007	LL1	505729.94	2606848.41	1/5/2012	Shallow	71	72	480
GP-T85-007	LL1	505729.94	2606848.41	1/5/2012	Intermediate	81	82	760
GP-T85-007	LL1	505729.94	2606848.41	1/5/2012	Intermediate	91	92	1500
GP-T85-007	LL1	505729.94	2606848.41	1/5/2012	Intermediate	91	92	1600
GP-T85-007	LL1	505729.94	2606848.41	1/5/2012	Intermediate	101	102	3000
GP-T85-007	LL1	505729.94	2606848.41	1/5/2012	Intermediate	111	112	1900
GP-T85-007	LL1	505729.94	2606848.41	1/5/2012	Intermediate	121	122	920
GP-T85-007	LL1	505729.94	2606848.41	1/5/2012	Intermediate	131	132	81 J
GP-T86-001	LL1	500605.20	2608924.89	1/10/2012	Shallow	47	48	61
GP-T86-001	LL1	500605.20	2608924.89	1/10/2012	Shallow	57	58	59
GP-T86-001	LL1	500605.20	2608924.89	1/10/2012	Shallow	67	68	130
GP-T86-001	LL1	500605.20	2608924.89	1/10/2012	Shallow	77	78	720
GP-T86-001	LL1	500605.20	2608924.89	1/10/2012	Intermediate	87	88	1000
GP-T86-001	LL1	500605.20	2608924.89	1/10/2012	Intermediate	87	88	1100
GP-T86-001	LL1	500605.20	2608924.89	1/10/2012	Intermediate	97	98	510
GP-T86-001	LL1	500605.20	2608924.89	1/10/2012	Intermediate	107	108	92
GP-T86-001	LL1	500605.20	2608924.89	1/10/2012	Intermediate	117	118	52
GP-T86-002	LL1	500610.57	2609098.00	1/9/2012	Shallow	59	60	300 J
GP-T86-002	LL1	500610.57	2609098.00	1/9/2012	Shallow	59	60	72 J
GP-T86-002	LL1	500610.57	2609098.00	1/9/2012	Shallow	69	70	1100
GP-T86-002	LL1	500610.57	2609098.00	1/9/2012	Intermediate	79	80	6800
GP-T86-002	LL1	500610.57	2609098.00	1/9/2012	Intermediate	89	90	4400
GP-T86-002	LL1	500610.57	2609098.00	1/9/2012	Intermediate	99	100	3200
GP-T86-002	LL1	500610.57	2609098.00	1/9/2012	Intermediate	99	100	3300
GP-T86-002	LL1	500610.57	2609098.00	1/9/2012	Intermediate	109	110	870
GP-T86-002	LL1	500610.57	2609098.00	1/9/2012	Intermediate	109	110	980
GP-T86-002	LL1	500610.57	2609098.00	1/9/2012	Intermediate	119	120	210
GP-T86-002	LL1	500610.57	2609098.00	1/9/2012	Intermediate	129	130	140
GP-T86-003	LL1	500616.53	2609222.60	1/9/2012	Shallow	48	49	230
GP-T86-003	LL1	500616.53	2609222.60	1/9/2012	Shallow	58	59	560
GP-T86-003	LL1	500616.53	2609222.60	1/9/2012	Shallow	68	69	1700
GP-T86-003	LL1	500616.53	2609222.60	1/9/2012	Shallow	78	79	8100
GP-T86-003	LL1	500616.53	2609222.60	1/9/2012	Intermediate	88	89	8700

Table 3-2
TCE in Monitoring Wells and Direct-Push Samples (2008-2012)
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T86-003	LL1	500616.53	2609222.60	1/9/2012	Intermediate	88	89	9000
GP-T86-003	LL1	500616.53	2609222.60	1/9/2012	Intermediate	98	99	6000 J
GP-T86-003	LL1	500616.53	2609222.60	1/9/2012	Intermediate	98	99	6100 J
GP-T86-003	LL1	500616.53	2609222.60	1/9/2012	Intermediate	108	109	8600 J
GP-T86-003	LL1	500616.53	2609222.60	1/7/2012	Intermediate	118	119	250
GP-T86-003	LL1	500616.53	2609222.60	1/7/2012	Intermediate	128	129	550 J
GP-T86-004	LL1	500634.44	2609370.73	11/10/2011	Shallow	49	50	190 J
GP-T86-004	LL1	500634.44	2609370.73	11/10/2011	Shallow	59	60	1600 J
GP-T86-004	LL1	500634.44	2609370.73	11/10/2011	Shallow	69	70	2600 J
GP-T86-004	LL1	500634.44	2609370.73	11/10/2011	Intermediate	79	80	3900
GP-T86-004	LL1	500634.44	2609370.73	11/10/2011	Intermediate	89	90	10000
GP-T86-004	LL1	500634.44	2609370.73	11/10/2011	Intermediate	99	100	6100 J
GP-T86-004	LL1	500634.44	2609370.73	11/10/2011	Intermediate	109	110	3300 J
GP-T86-004	LL1	500634.44	2609370.73	11/10/2011	Intermediate	119	120	2300 J
GP-T86-004	LL1	500634.44	2609370.73	11/10/2011	Intermediate	129	130	760
GP-T86-005	LL1	500649.96	2609660.85	11/10/2011	Shallow	59	60	6
GP-T86-005	LL1	500649.96	2609660.85	11/10/2011	Shallow	69	70	9.4 J
GP-T86-005	LL1	500649.96	2609660.85	11/10/2011	Intermediate	79	80	7.8 J
GP-T86-005	LL1	500649.96	2609660.85	11/10/2011	Intermediate	89	90	9.6
GP-T86-005	LL1	500649.96	2609660.85	11/10/2011	Intermediate	99	100	7.4
GP-T86-005	LL1	500649.96	2609660.85	11/9/2011	Intermediate	109	110	4.5
GP-T86-005	LL1	500649.96	2609660.85	11/9/2011	Intermediate	119	120	1.8
GP-T86-005	LL1	500649.96	2609660.85	11/9/2011	Intermediate	129	130	2.5
GP-T86-006	LL1	500300.77	2609173.70	1/7/2012	Shallow	53	54	310 J
GP-T86-006	LL1	500300.77	2609173.70	1/7/2012	Shallow	63	64	670 J
GP-T86-006	LL1	500300.77	2609173.70	1/7/2012	Shallow	73	74	2900
GP-T86-006	LL1	500300.77	2609173.70	1/7/2012	Shallow	73	74	2700 J
GP-T86-006	LL1	500300.77	2609173.70	1/7/2012	Intermediate	83	84	5900
GP-T86-006	LL1	500300.77	2609173.70	1/7/2012	Intermediate	83	84	5800
GP-T86-006	LL1	500300.77	2609173.70	1/7/2012	Intermediate	93	94	7100
GP-T86-006	LL1	500300.77	2609173.70	1/7/2012	Intermediate	103	104	5100
GP-T86-006	LL1	500300.77	2609173.70	1/7/2012	Intermediate	113	114	200
GP-T86-006	LL1	500300.77	2609173.70	1/7/2012	Intermediate	123	124	140
GP-T86-006	LL1	500300.77	2609173.70	1/7/2012	Intermediate	133	134	71 J
GP-T86-007	LL1	500300.23	2609302.64	1/6/2012	Shallow	52	53	230
GP-T86-007	LL1	500300.23	2609302.64	1/6/2012	Shallow	62	63	330
GP-T86-007	LL1	500300.23	2609302.64	1/6/2012	Shallow	72	73	1900
GP-T86-007	LL1	500300.23	2609302.64	1/6/2012	Shallow	72	73	1800
GP-T86-007	LL1	500300.23	2609302.64	1/6/2012	Intermediate	82	83	7700
GP-T86-007	LL1	500300.23	2609302.64	1/6/2012	Intermediate	92	93	9000
GP-T86-007	LL1	500300.23	2609302.64	1/6/2012	Intermediate	102	103	3800
GP-T86-007	LL1	500300.23	2609302.64	1/6/2012	Intermediate	102	103	3700
GP-T86-007	LL1	500300.23	2609302.64	1/6/2012	Intermediate	112	113	2800
GP-T86-007	LL1	500300.23	2609302.64	1/6/2012	Intermediate	122	123	640
GP-T86-007	LL1	500300.23	2609302.64	1/6/2012	Intermediate	132	133	520
GP-T87-001	LL1	499634.25	2609211.65	1/11/2012	Shallow	58	59	2300
GP-T87-001	LL1	499634.25	2609211.65	1/11/2012	Shallow	68	69	5800
GP-T87-001	LL1	499634.25	2609211.65	1/11/2012	Shallow	68	69	5500
GP-T87-001	LL1	499634.25	2609211.65	1/11/2012	Shallow	78	79	1500
GP-T87-001	LL1	499634.25	2609211.65	1/10/2012	Intermediate	88	89	2700

Table 3-2
TCE in Monitoring Wells and Direct-Push Samples (2008-2012)
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T87-001	LL1	499634.25	2609211.65	1/10/2012	Intermediate	98	99	2400
GP-T87-001	LL1	499634.25	2609211.65	1/10/2012	Intermediate	108	109	1800
GP-T87-001	LL1	499634.25	2609211.65	1/10/2012	Intermediate	118	119	870
GP-T87-001	LL1	499634.25	2609211.65	1/10/2012	Intermediate	128	129	780
GP-T87-002	LL1	499634.20	2609585.33	1/30/2012	Shallow	63	64	25
GP-T87-002	LL1	499634.20	2609585.33	1/30/2012	Shallow	73	74	130
GP-T87-002	LL1	499634.20	2609585.33	1/30/2012	Intermediate	83	84	55
GP-T87-002	LL1	499634.20	2609585.33	1/30/2012	Intermediate	93	94	54
GP-T87-002	LL1	499634.20	2609585.33	1/30/2012	Intermediate	103	104	200
GP-T87-002	LL1	499634.20	2609585.33	1/30/2012	Intermediate	113	114	280
GP-T87-002	LL1	499634.20	2609585.33	1/30/2012	Intermediate	123	124	55
GP-T87-002	LL1	499634.20	2609585.33	1/30/2012	Intermediate	133	134	270
GP-T87-003	LL1	499067.01	2609264.44	1/30/2012	Shallow	53	54	2700
GP-T87-003	LL1	499067.01	2609264.44	1/30/2012	Shallow	63	64	6500
GP-T87-003	LL1	499067.01	2609264.44	1/30/2012	Shallow	73	74	13000
GP-T87-003	LL1	499067.01	2609264.44	1/11/2012	Intermediate	83	84	12000 J
GP-T87-003	LL1	499067.01	2609264.44	1/11/2012	Intermediate	83	84	12000
GP-T87-003	LL1	499067.01	2609264.44	1/11/2012	Intermediate	93	94	13000
GP-T87-003	LL1	499067.01	2609264.44	1/11/2012	Intermediate	103	104	9300
GP-T87-003	LL1	499067.01	2609264.44	1/11/2012	Intermediate	113	114	8300
GP-T87-003	LL1	499067.01	2609264.44	1/11/2012	Intermediate	123	124	4400
GP-T87-003	LL1	499067.01	2609264.44	1/11/2012	Intermediate	133	134	6600
GP-T87-004	LL1	499068.89	2609630.53	1/31/2012	Shallow	59	60	95
GP-T87-004	LL1	499068.89	2609630.53	1/31/2012	Shallow	69	70	150
GP-T87-004	LL1	499068.89	2609630.53	1/31/2012	Intermediate	79	80	230
GP-T87-004	LL1	499068.89	2609630.53	1/31/2012	Intermediate	89	90	450
GP-T87-004	LL1	499068.89	2609630.53	1/31/2012	Intermediate	99	100	300
GP-T87-004	LL1	499068.89	2609630.53	1/31/2012	Intermediate	109	110	180
GP-T87-004	LL1	499068.89	2609630.53	1/31/2012	Intermediate	119	120	540
GP-T87-004	LL1	499068.89	2609630.53	1/31/2012	Intermediate	129	130	420
GP-T87-004	LL1	499068.89	2609630.53	1/31/2012	Intermediate	139	140	340
GP-T87-005	LL1	498710.79	2609401.67	1/31/2012	Shallow	68	69	5000
GP-T87-005	LL1	498710.79	2609401.67	1/31/2012	Shallow	78	79	6500
GP-T87-005	LL1	498710.79	2609401.67	1/31/2012	Intermediate	88	89	2600
GP-T87-005	LL1	498710.79	2609401.67	1/31/2012	Intermediate	98	99	3600
GP-T87-005	LL1	498710.79	2609401.67	1/31/2012	Intermediate	108	109	2800
GP-T87-005	LL1	498710.79	2609401.67	1/31/2012	Intermediate	118	119	1600
GP-T87-005	LL1	498710.79	2609401.67	1/31/2012	Intermediate	128	129	1300
GP-T87-005	LL1	498710.79	2609401.67	1/31/2012	Intermediate	138	139	1600
GP-T88-004	LL1	492704.01	2610771.97	11/28/2011	Shallow	12	13	ND
GP-T88-004	LL1	492704.01	2610771.97	11/28/2011	Shallow	22	23	ND
GP-T88-004	LL1	492704.01	2610771.97	11/28/2011	Shallow	32	33	ND
GP-T88-004	LL1	492704.01	2610771.97	11/28/2011	Shallow	42	43	ND
GP-T88-004	LL1	492704.01	2610771.97	11/28/2011	Shallow	52	53	0.63 J
GP-T88-004	LL1	492704.01	2610771.97	11/28/2011	Shallow	62	63	0.43 J
GP-T88-004	LL1	492704.01	2610771.97	11/28/2011	Shallow	72	73	0.23 J
GP-T88-004	LL1	492704.01	2610771.97	11/28/2011	Intermediate	82	83	ND
GP-T88-005	LL1	492689.50	2611044.36	11/28/2011	Shallow	7	8	ND
GP-T88-005	LL1	492689.50	2611044.36	11/28/2011	Shallow	17	18	ND
GP-T88-005	LL1	492689.50	2611044.36	11/28/2011	Shallow	27	28	ND

Table 3-2
TCE in Monitoring Wells and Direct-Push Samples (2008-2012)
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T88-005	LL1	492689.50	2611044.36	11/28/2011	Shallow	37	38	ND
GP-T88-005	LL1	492689.50	2611044.36	11/28/2011	Shallow	47	48	ND
GP-T88-005	LL1	492689.50	2611044.36	11/28/2011	Shallow	57	58	ND
GP-T88-005	LL1	492689.50	2611044.36	11/28/2011	Shallow	67	68	ND
GP-T88-005	LL1	492689.50	2611044.36	11/28/2011	Shallow	77	78	0.56 J
GP-T88-006	LL1	492403.42	2610914.46	11/28/2011	Shallow	11	12	0.22 J
GP-T88-006	LL1	492403.42	2610914.46	11/28/2011	Shallow	21	22	0.56 J
GP-T88-006	LL1	492403.42	2610914.46	11/28/2011	Shallow	31	32	2.4
GP-T88-006	LL1	492403.42	2610914.46	11/28/2011	Shallow	41	42	2.4 J
GP-T88-006	LL1	492403.42	2610914.46	11/28/2011	Shallow	51	52	6 J
GP-T88-006	LL1	492403.42	2610914.46	11/28/2011	Shallow	61	62	ND
GP-T88-006	LL1	492403.42	2610914.46	11/28/2011	Shallow	61	62	ND
GP-T88-006	LL1	492403.42	2610914.46	11/28/2011	Shallow	71	72	ND
GP-T88-006	LL1	492403.42	2610914.46	11/28/2011	Intermediate	81	82	ND
MW-02A	LL1	506250.32	2606800.10	5/24/2012	Intermediate	67.7	96.9	79
MW-02B	LL1	506255.48	2606808.89	5/24/2012	Shallow	34.3	63.5	25
MW-03A	LL1	506223.41	2607532.26	5/24/2012	Intermediate	97	145.8	ND
MW-03B	LL1	506225.42	2607542.05	5/24/2012	Shallow	39.9	98.4	ND
MW-101A	LL1	491574.11	2610929.39	3/7/2012	Intermediate	83	93	ND
MW-101B	LL1	491573.81	2610923.62	3/7/2012	Shallow	30	40	ND
MW-101D	LL1	491574.48	2610935.30	3/7/2012	Intermediate	90	95	ND
MW-10A	LL1	496858.26	2607883.83	6/8/2012	Intermediate	61.4	100.4	ND
MW-10B	LL1	496858.92	2607893.73	6/8/2012	Shallow	33	62.2	ND
MW-119A	LL1	499580.81	2607952.60	6/4/2012	Intermediate	119.7	129.2	ND
MW-119B	LL1	499593.34	2607941.55	6/4/2012	Shallow	74	83.5	ND
MW-12	LL1	509013.88	2606856.24	4/3/2009	Shallow	27.6	37.3	1.3
MW-120A	LL1	499419.07	2609372.30	6/4/2012	Intermediate	128.7	138.2	200
MW-120B	LL1	499438.96	2609372.69	6/4/2012	Shallow	65.5	75	9300
MW-120D	LL1	499409.46	2609371.09	8/24/2012	Intermediate	144	148.4	17
MW-120E	LL1	499430.79	2609372.68	8/24/2012	Intermediate	95.3	104.8	14000
MW-120E	LL1	499430.79	2609372.68	8/24/2012	Intermediate	95.3	104.8	14000
MW-121A	LL1	500071.01	2609752.78	5/30/2012	Intermediate	132.6	142.1	0.56 J
MW-121B	LL1	500071.58	2609779.25	5/30/2012	Shallow	75.7	85.2	ND
MW-121E	LL1	500071.28	2609763.30	5/30/2012	Intermediate	105.5	115	0.51 J
MW-122A	LL1	498101.34	2609240.41	6/4/2012	Intermediate	128.5	138	82
MW-122A	LL1	498101.34	2609240.41	6/4/2012	Intermediate	128.5	138	110
MW-122B	LL1	498114.60	2609232.28	6/4/2012	Shallow	97.6	107.1	930
MW-123A	LL1	499909.06	2608677.91	6/4/2012	Intermediate	131.8	141.3	2.2
MW-123B	LL1	499909.02	2608666.00	6/4/2012	Shallow	90.1	99.6	4.2
MW-124A	LL1	501486.16	2609115.81	5/30/2012	Intermediate	100.3	109.8	6500
MW-124B	LL1	501496.31	2609107.78	5/30/2012	Shallow	69.7	79.2	14000
MW-124B	LL1	501496.31	2609107.78	5/30/2012	Shallow	69.7	79.2	13000
MW-124D	LL1	501475.68	2609125.65	5/30/2012	Intermediate	121.3	125.7	880
MW-125A	LL1	500663.23	2609457.05	6/4/2012	Intermediate	117.9	127.4	440
MW-125B	LL1	500661.63	2609468.11	6/4/2012	Shallow	76.7	86.2	2600
MW-125B	LL1	500661.63	2609468.11	6/4/2012	Shallow	76.7	86.2	2100
MW-125D	LL1	500664.74	2609446.30	6/4/2012	Intermediate	134.4	138.8	140
MW-126A	LL1	504504.81	2607483.63	6/4/2012	Intermediate	112.3	121.8	7300
MW-126B	LL1	504514.65	2607482.55	6/4/2012	Shallow	82.3	91.8	8900
MW-126D	LL1	504494.76	2607483.02	6/4/2012	Intermediate	148.8	153.2	1900

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
MW-127A	LL1	506918.35	2606121.55	5/24/2012	Intermediate	118.5	128	9.1
MW-127B	LL1	506931.42	2606121.65	5/24/2012	Shallow	71.9	81.4	80
MW-127E	LL1	506941.60	2606121.30	5/24/2012	Intermediate	51.6	61.1	8.8
MW-141A	LL1	502590.64	2608446.60	6/4/2012	Intermediate	105	115	9100
MW-141B	LL1	502597.16	2608446.50	6/4/2012	Shallow	50	60	8900
MW-141E	LL1	502604.35	2608446.50	6/4/2012	Intermediate	80	90	7700
MW-141E	LL1	502604.35	2608446.50	6/4/2012	Intermediate	80	90	8700
MW-142A	LL1	495594.89	2610572.95	3/1/2012	Intermediate	115	125	1300
MW-142E	LL1	495595.10	2610572.94	3/1/2012	Intermediate	90	100	85
MW-142E	LL1	495595.10	2610572.94	3/1/2012	Intermediate	90	100	88
MW-160A	LL1	496947.49	2609501.29	12/06/2012	Intermediate	113.01	123.01	2900 J
MW-160B	LL1	496954.30	2609505.06	12/06/2012	Shallow	82.92	92.92	370 J
MW-161A	LL1	503133.22	2608418.56	12/06/2012	Intermediate	105.25	115.25	13000
MW-161B	LL1	503123.84	2608419.67	12/06/2012	Shallow	74.53	84.53	6900 J
MW-177A	LL1	492953.37	2609971.19	12/06/2012	Intermediate	73.3	83.3	0.21 J
MW-177B	LL1	492954.44	2609974.65	12/06/2012	Shallow	34.68	44.68	ND
MW-179A	LL1	493135.13	2611664.67	12/06/2012	Intermediate	74.51	84.51	ND
MW-179B	LL1	493134.48	2611658.78	12/06/2012	Shallow	34.81	44.81	ND
MW-21A	LL1	503524.80	2607121.36	8/24/2012	Intermediate	116	126	22
MW-21A	LL1	503524.80	2607121.36	8/24/2012	Intermediate	116	126	24
MW-21B	LL1	503524.04	2607111.29	8/24/2012	Shallow	66	76	87 J
MW-21D	LL1	503525.82	2607131.40	8/24/2012	Intermediate	133	138	17
MW-22A	LL1	510402.06	2606598.39	9/27/2007	Intermediate	87.8	97.8	ND
MW-22B	LL1	510403.43	2606604.48	9/27/2007	Shallow	58	68	ND
MW-23A	LL1	509376.37	2606402.57	9/27/2007	Intermediate	88.5	98.5	ND
MW-23B	LL1	509383.86	2606393.05	2/25/2009	Shallow	67.5	77.5	0.36 J
MW-24A	LL1	501919.83	2608476.89	8/24/2012	Intermediate	111.5	121.5	500
MW-24B	LL1	501909.01	2608477.73	8/24/2012	Shallow	56	66	21
MW-25A	LL1	504875.16	2608308.40	5/24/2012	Intermediate	145	155	ND
MW-25B	LL1	504885.57	2608308.27	5/24/2012	Shallow	74	84	23
MW-25D	LL1	504864.76	2608308.83	5/24/2012	Intermediate	163.2	168.2	ND
MW-26A	LL1	508825.08	2609860.44	7/1/2010	Intermediate	92.5	102.5	ND
MW-26B	LL1	508824.87	2609849.89	7/1/2010	Shallow	66	76	ND
MW-61A	LL1	492900.04	2608656.02	3/7/2012	Intermediate	75.7	85.7	ND
MW-61B	LL1	492898.59	2608644.38	3/7/2012	Shallow	25	35	ND
MW-61D	LL1	492901.85	2608667.92	3/7/2012	Intermediate	97	102	ND
MW-79A	LL1	492336.20	2610432.13	6/7/2012	Intermediate	76	86	ND
MW-79A	LL1	492336.20	2610432.13	6/7/2012	Intermediate	76	86	ND
MW-79B	LL1	492345.18	2610428.13	6/7/2012	Shallow	30.2	40.2	ND
MW-80A	LL1	492067.12	2610925.53	8/22/2012	Intermediate	69.17	79.17	ND
MW-80B	LL1	492064.59	2610916.24	8/22/2012	Shallow	30	40	0.88 J
MW-80D	LL1	492068.65	2610935.54	8/22/2012	Intermediate	87.7	92.7	ND
MW-81A	LL1	492369.38	2611637.99	8/22/2012	Intermediate	79	92	ND
MW-81B	LL1	492360.36	2611635.91	8/22/2012	Shallow	28.2	38.2	ND
MW-81D	LL1	492349.85	2611633.37	8/22/2012	Intermediate	99.1	104.1	ND
MW-89A	LL1	494253.87	2610430.84	6/7/2012	Intermediate	129.2	139.2	9.9
MW-89B	LL1	494254.09	2610408.68	6/7/2012	Shallow	65	75.7	4.1
MW-89D	LL1	494254.26	2610451.40	6/7/2012	Intermediate	145	150.6	2.3
MW-89E	LL1	494253.06	2610466.38	6/7/2012	Intermediate	85	95	230
MW-90A	LL1	494302.03	2611235.53	3/1/2012	Intermediate	112.2	123.4	660

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
MW-90B	LL1	494297.96	2611226.60	3/1/2012	Shallow	65.35	75.45	130
MW-90D	LL1	494306.05	2611244.85	3/1/2012	Intermediate	130.2	135.2	300
MW-91A	LL1	494322.99	2612076.97	3/1/2012	Intermediate	109.2	119.2	ND
MW-91B	LL1	494317.52	2612067.84	3/1/2012	Shallow	67.6	77.6	ND
MW-91D	LL1	494327.97	2612085.70	3/1/2012	Intermediate	125.2	130.2	ND
MW-92A	LL1	492722.58	2610047.26	6/7/2012	Intermediate	72.16	82.16	ND
MW-92B	LL1	492733.82	2610047.79	6/7/2012	Shallow	30.1	40.1	ND
MW-93A	LL1	493551.29	2612162.88	3/1/2012	Intermediate	84.2	94.2	ND
MW-93B	LL1	493546.79	2612154.06	3/1/2012	Shallow	60	70	ND
IWTU-01	LL1	504367.083	2607335.32	11/16/2010	Shallow	43	44	3.2
IWTU-01	LL1	504367.083	2607335.32	11/16/2010	Shallow	47	48	1100
IWTU-01	LL1	504367.083	2607335.32	11/16/2010	Shallow	51	52	1600
IWTU-01	LL1	504367.083	2607335.32	11/16/2010	Shallow	55	56	1900
IWTU-01	LL1	504367.083	2607335.32	11/16/2010	Shallow	57	58	1900
IWTU-01	LL1	504367.083	2607335.32	11/16/2010	Shallow	60	61	2800
IWTU-01	LL1	504367.083	2607335.32	11/16/2010	Shallow	65	66	4400
IWTU-01	LL1	504367.083	2607335.32	11/17/2010	Shallow	71	72	1300
IWTU-01	LL1	504367.083	2607335.32	11/17/2010	Shallow	80	81	2400
IWTU-01	LL1	504367.083	2607335.32	11/17/2010	Intermediate	90	91	3400
IWTU-01	LL1	504367.083	2607335.32	11/17/2010	Intermediate	95	96	4500
IWTU-01	LL1	504367.083	2607335.32	11/17/2010	Intermediate	100	101	1800
IWTU-01	LL1	504367.083	2607335.32	11/17/2010	Intermediate	105	106	8700
IWTU-01	LL1	504367.083	2607335.32	11/17/2010	Intermediate	112	113	11000
IWTU-01	LL1	504367.083	2607335.32	11/17/2010	Intermediate	120	121	12000
IWTU-01	LL1	504367.083	2607335.32	11/17/2010	Intermediate	126	127	4600
IWTU-01	LL1	504367.083	2607335.32	11/17/2010	Intermediate	132	133	7200
IWTU-01	LL1	504367.083	2607335.32	11/17/2010	Intermediate	136	137	9800
PTMW-01	LL1	504308.264	2607249.86	11/11/2010	Shallow	60	61	4800
PTMW-01	LL1	504308.264	2607249.86	11/11/2010	Shallow	72	73	3100
PTMW-01	LL1	504308.264	2607249.86	11/11/2010	Intermediate	100	101	4200
PTMW-02	LL1	504442.686	2607285.87	11/9/2010	Shallow	58	59	5100
PTMW-02	LL1	504442.686	2607285.87	11/9/2010	Shallow	90	91	10000
PTMW-02	LL1	504442.686	2607285.87	11/9/2010	Intermediate	112	113	13000
PTMW-03	LL1	504391.697	2607319.02	11/13/2010	Shallow	43	44	0.36 J
PTMW-03	LL1	504391.697	2607319.02	11/13/2010	Shallow	45	46	0.65 J
PTMW-03	LL1	504391.697	2607319.02	11/13/2010	Shallow	50	51	83
PTMW-03	LL1	504391.697	2607319.02	11/13/2010	Shallow	53	54	3300
PTMW-03	LL1	504391.697	2607319.02	11/13/2010	Shallow	55	56	2600
PTMW-03	LL1	504391.697	2607319.02	11/13/2010	Shallow	59	60	5000
PTMW-03	LL1	504391.697	2607319.02	11/13/2010	Shallow	61	62	5000
PTMW-03	LL1	504391.697	2607319.02	11/13/2010	Shallow	63	64	5100
PTMW-03	LL1	504391.697	2607319.02	11/13/2010	Shallow	65	66	5900
PTMW-03	LL1	504391.697	2607319.02	11/13/2010	Shallow	67	68	4900
PTMW-03	LL1	504391.697	2607319.02	11/14/2010	Shallow	69	70	3300
PTMW-03	LL1	504391.697	2607319.02	11/14/2010	Shallow	76	77	3900
PTMW-03	LL1	504391.697	2607319.02	11/14/2010	Shallow	81	82	3500
PTMW-03	LL1	504391.697	2607319.02	11/14/2010	Shallow	83	84	4500
PTMW-03	LL1	504391.697	2607319.02	11/14/2010	Shallow	86	87	4100
PTMW-03	LL1	504391.697	2607319.02	11/14/2010	Shallow	88	89	3700
PTMW-03	LL1	504391.697	2607319.02	11/14/2010	Shallow	91	92	3200

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
PTMW-03	LL1	504391.697	2607319.02	11/14/2010	Intermediate	96	97	4800
PTMW-03	LL1	504391.697	2607319.02	11/15/2010	Intermediate	99	100	3600
PTMW-03	LL1	504391.697	2607319.02	11/15/2010	Intermediate	102	103	2100
PTMW-03	LL1	504391.697	2607319.02	11/15/2010	Intermediate	104	105	1900
PTMW-03	LL1	504391.697	2607319.02	11/15/2010	Intermediate	107	108	4000
PTMW-03	LL1	504391.697	2607319.02	11/15/2010	Intermediate	110	111	6100
PTMW-03	LL1	504391.697	2607319.02	11/15/2010	Intermediate	112	113	12000
PTMW-03	LL1	504391.697	2607319.02	11/15/2010	Intermediate	115	116	7000
PTMW-03	LL1	504391.697	2607319.02	11/15/2010	Intermediate	118	119	10000
PTMW-03	LL1	504391.697	2607319.02	11/15/2010	Intermediate	121	122	11000
PTMW-03	LL1	504391.697	2607319.02	11/15/2010	Intermediate	124	125	9800
PTMW-03	LL1	504391.697	2607319.02	11/16/2010	Intermediate	127	128	6400
PTMW-03	LL1	504391.697	2607319.02	11/16/2010	Intermediate	134	135	270
PTMW-03	LL1	504391.697	2607319.02	11/16/2010	Intermediate	136	137	5600
PTMW-04	LL1	504348.748	2607353.76	11/10/2010	Shallow	60	61	850
PTMW-04	LL1	504348.748	2607353.76	11/10/2010	Shallow	66	67	3800
PTMW-04	LL1	504348.748	2607353.76	11/10/2010	Shallow	90	91	3300
PTMW-04	LL1	504348.748	2607353.76	11/10/2010	Intermediate	112	113	11000
PTMW-05	LL1	504324.378	2607357.16	11/9/2010	Shallow	58	59	850
PTMW-05	LL1	504324.378	2607357.16	11/9/2010	Shallow	90	91	8200
PTMW-05	LL1	504324.378	2607357.16	11/9/2010	Intermediate	112	113	14000
PTMW-06	LL1	504381.755	2607361.81	11/10/2010	Shallow	55	56	1600
PTMW-06	LL1	504381.755	2607361.81	11/10/2010	Shallow	67	68	2000
PTMW-06	LL1	504381.755	2607361.81	11/10/2010	Shallow	90	91	4800
PTMW-06	LL1	504381.755	2607361.81	11/10/2010	Intermediate	114	115	5600
PTMW-07	LL1	504386.777	2607384.66	11/9/2010	Shallow	90	91	4300
PTMW-07	LL1	504386.777	2607384.66	11/9/2010	Intermediate	115	116	10000
PTMW-07	LL1	504386.777	2607384.66	11/10/2010	Shallow	50	51	1600
PTMW-07	LL1	504386.777	2607384.66	11/10/2010	Shallow	68	69	2600
PTMW-01 (DUP)	LL1	504308.264	2607249.86	3/9/2011	Shallow	55.1	65.1	16000
PTMW-04I (DUP)	LL1	504357.003	2607346.69	7/12/2011	Intermediate	85	95	4000
PTMW-03S (DUP)	LL1	504386.595	2607322.22	8/10/2011	Shallow	53	63	510
PTMW-03S (DUP)	LL1	504386.595	2607322.22	9/7/2011	Shallow	53	63	110
PTMW-03S (DUP)	LL1	504386.595	2607322.22	9/14/2011	Shallow	53	63	85
PTMW-03S (DUP)	LL1	504386.595	2607322.22	12/28/2011	Shallow	53	63	4.9
PTMW-03D	LL1	504391.697	2607319.02	6/27/2012	Intermediate	111.7	121.7	5400
PTMW-03I	LL1	504381.498	2607324.72	6/27/2012	Intermediate	85	95	5800
PTMW-03S	LL1	504386.595	2607322.22	6/27/2012	Shallow	53	63	150
PTMW-04D	LL1	504348.748	2607353.76	6/27/2012	Intermediate	110	120	4300
PTMW-04I	LL1	504357.003	2607346.69	6/27/2012	Intermediate	85	95	4100
PTMW-04S	LL1	504353.205	2607349.97	6/27/2012	Shallow	53	63	1000
PTMW-06D	LL1	504381.755	2607361.81	6/27/2012	Intermediate	112	122	11000
PTMW-06I	LL1	504374.81	2607366.44	6/27/2012	Intermediate	85	95	3100
PTMW-06S	LL1	504378.347	2607363.93	6/27/2012	Shallow	53	63	2300 J
PTMW-01I	LL1	504308.264	2607249.86	6/28/2012	Shallow	81.3	91.3	7700
PTMW-01S	LL1	504314.259	2607249.07	6/28/2012	Shallow	55.1	65.1	9700
PTMW-02I	LL1	504442.686	2607285.87	6/28/2012	Intermediate	85	95	11000
PTMW-02S	LL1	504436.686	2607288.04	6/28/2012	Shallow	53.6	63.6	2700
PTMW-05I	LL1	504324.378	2607357.16	6/28/2012	Intermediate	85	95	4000
PTMW-05S	LL1	504324.013	2607361.67	6/28/2012	Shallow	53	63	430

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
PTMW-07I	LL1	504386.777	2607384.66	6/28/2012	Intermediate	85	95	5800
PTMW-07S	LL1	504389.559	2607380.85	6/28/2012	Shallow	50	60	950
BAZE-MW-06	LL2	502044.01	2616157.12	3/18/2010	Shallow	56	76	ND
GP-MW-144	LL2	504219.10	2614425.59	6/23/2010	Shallow	50	51	ND
GP-MW-144	LL2	504219.10	2614425.59	6/23/2010	Shallow	60	61	ND
GP-MW-144	LL2	504219.10	2614425.59	6/23/2010	Shallow	70	71	ND
GP-MW-144	LL2	504219.10	2614425.59	6/23/2010	Intermediate	80	81	ND
GP-MW-144	LL2	504219.10	2614425.59	6/23/2010	Intermediate	90	91	ND
GP-MW-144	LL2	504219.10	2614425.59	6/23/2010	Intermediate	100	101	ND
GP-MW-144	LL2	504219.10	2614425.59	6/23/2010	Intermediate	100	101	ND
GP-MW-146	LL2	495349.50	2618922.97	6/16/2010	Shallow	61	62	ND
GP-MW-146	LL2	495349.50	2618922.97	6/16/2010	Shallow	71	72	ND
GP-MW-146	LL2	495349.50	2618922.97	6/16/2010	Shallow	71	72	ND
GP-MW-146	LL2	495349.50	2618922.97	6/16/2010	Shallow	81	82	ND
GP-MW-146	LL2	495349.50	2618922.97	6/16/2010	Intermediate	91	92	ND
GP-MW-146	LL2	495349.50	2618922.97	6/15/2010	Intermediate	101	102	ND
GP-MW-147	LL2	494876.82	2620075.30	6/17/2010	Shallow	52	53	ND
GP-MW-147	LL2	494876.82	2620075.30	6/17/2010	Shallow	62	63	ND
GP-MW-147	LL2	494876.82	2620075.30	6/16/2010	Shallow	72	73	ND
GP-MW-147	LL2	494876.82	2620075.30	6/16/2010	Intermediate	82	83	ND
GP-MW-147	LL2	494876.82	2620075.30	6/16/2010	Intermediate	92	93	ND
GP-MW-147	LL2	494876.82	2620075.30	6/16/2010	Intermediate	102	103	ND
GP-T36-08	LL2	505276.88	2613514.73	11/20/2007	Shallow	59	60	ND
GP-T36-08	LL2	505276.88	2613514.73	11/20/2007	Shallow	72	73	ND
GP-T36-08	LL2	505276.88	2613514.73	11/20/2007	Intermediate	85	86	ND
GP-T36-08	LL2	505276.88	2613514.73	11/20/2007	Intermediate	98	99	ND
GP-T36-09	LL2	505838.79	2613503.77	11/19/2007	Shallow	56	57	ND
GP-T36-09	LL2	505838.79	2613503.77	11/19/2007	Shallow	68	69	ND
GP-T36-09	LL2	505838.79	2613503.77	11/19/2007	Intermediate	80	81	ND
GP-T36-09	LL2	505838.79	2613503.77	11/19/2007	Intermediate	92	93	ND
GP-T36-10	LL2	506218.82	2613817.63	11/19/2007	Shallow	56	57	6
GP-T36-10	LL2	506218.82	2613817.63	11/19/2007	Shallow	67	68	7
GP-T36-10	LL2	506218.82	2613817.63	11/19/2007	Shallow	67	68	8
GP-T36-10	LL2	506218.82	2613817.63	11/19/2007	Shallow	67	68	11
GP-T36-10	LL2	506218.82	2613817.63	11/19/2007	Shallow	67	68	12
GP-T36-10	LL2	506218.82	2613817.63	11/19/2007	Intermediate	79	80	11
GP-T36-10	LL2	506218.82	2613817.63	11/19/2007	Intermediate	90	91	9
GP-T36-11	LL2	506609.50	2614446.48	11/20/2007	Shallow	59	60	ND
GP-T36-11	LL2	506609.50	2614446.48	11/20/2007	Shallow	71	72	ND
GP-T36-11	LL2	506609.50	2614446.48	11/20/2007	Intermediate	83	84	ND
GP-T36-11	LL2	506609.50	2614446.48	11/20/2007	Intermediate	94	95	ND
GP-T36-12	LL2	506974.86	2614630.43	11/20/2007	Shallow	55	56	ND
GP-T36-12	LL2	506974.86	2614630.43	11/20/2007	Shallow	67	68	ND
GP-T36-12	LL2	506974.86	2614630.43	11/20/2007	Intermediate	79	80	ND
GP-T36-12	LL2	506974.86	2614630.43	11/20/2007	Intermediate	91	92	ND
GP-T36-13	LL2	507258.67	2615188.60	11/20/2007	Shallow	55	56	ND
GP-T36-13	LL2	507258.67	2615188.60	11/20/2007	Shallow	67	68	ND
GP-T36-13	LL2	507258.67	2615188.60	11/20/2007	Intermediate	79	80	ND
GP-T36-13	LL2	507258.67	2615188.60	11/20/2007	Intermediate	91	92	ND
GP-T36-14	LL2	507728.30	2613411.10	11/27/2007	Shallow	53	54	ND

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T36-14	LL2	507728.30	2613411.10	11/27/2007	Shallow	65	66	ND
GP-T36-14	LL2	507728.30	2613411.10	11/27/2007	Intermediate	78	79	ND
GP-T36-14	LL2	507728.30	2613411.10	11/27/2007	Intermediate	90	91	ND
GP-T36-15	LL2	506755.32	2612730.06	11/27/2007	Shallow	54	55	ND
GP-T36-15	LL2	506755.32	2612730.06	11/27/2007	Shallow	67	68	ND
GP-T36-15	LL2	506755.32	2612730.06	11/27/2007	Intermediate	80	81	ND
GP-T36-15	LL2	506755.32	2612730.06	11/27/2007	Intermediate	92	93	ND
GP-T36-16	LL2	506454.46	2612236.73	11/26/2007	Shallow	55	56	ND
GP-T36-16	LL2	506454.46	2612236.73	11/26/2007	Shallow	68	69	ND
GP-T36-16	LL2	506454.46	2612236.73	11/26/2007	Intermediate	81	82	ND
GP-T36-16	LL2	506454.46	2612236.73	11/26/2007	Intermediate	94	95	ND
GP-T37-02	LL2	502259.54	2613629.63	5/16/2007	Shallow	73	74	ND
GP-T37-02	LL2	502259.54	2613629.63	5/16/2007	Intermediate	113	114	ND
GP-T37-03	LL2	502529.80	2614098.09	5/7/2007	Shallow	57	58	ND
GP-T37-03	LL2	502529.80	2614098.09	5/7/2007	Shallow	69	70	ND
GP-T37-03	LL2	502529.80	2614098.09	5/7/2007	Intermediate	81	82	ND
GP-T37-03	LL2	502529.80	2614098.09	5/7/2007	Intermediate	93	94	ND
GP-T37-03	LL2	502529.80	2614098.09	5/7/2007	Intermediate	105	106	ND
GP-T37-04	LL2	503088.23	2614343.60	5/31/2007	Shallow	64	65	ND
GP-T37-04	LL2	503088.23	2614343.60	5/31/2007	Intermediate	98	99	ND
GP-T37-05	LL2	503699.23	2615363.81	5/15/2007	Shallow	63	64	38
GP-T37-05	LL2	503699.23	2615363.81	5/15/2007	Intermediate	93	94	47
GP-T37-06	LL2	504280.01	2615966.70	5/15/2007	Shallow	62	63	ND
GP-T37-06	LL2	504280.01	2615966.70	5/15/2007	Intermediate	91	92	1.4
GP-T37-08	LL2	503132.19	2614920.16	11/17/2007	Shallow	58	59	0.4 J
GP-T37-08	LL2	503132.19	2614920.16	11/17/2007	Shallow	58	59	ND
GP-T37-08	LL2	503132.19	2614920.16	11/17/2007	Shallow	71	72	ND
GP-T37-08	LL2	503132.19	2614920.16	11/17/2007	Intermediate	84	85	3
GP-T37-08	LL2	503132.19	2614920.16	11/17/2007	Intermediate	97	98	1
GP-T37-09	LL2	503373.84	2615136.13	11/16/2007	Shallow	61	62	9
GP-T37-09	LL2	503373.84	2615136.13	11/16/2007	Shallow	73	74	8
GP-T37-09	LL2	503373.84	2615136.13	11/16/2007	Intermediate	86	87	1
GP-T37-09	LL2	503373.84	2615136.13	11/16/2007	Intermediate	98	99	ND
GP-T37-10	LL2	504352.22	2615659.73	11/14/2007	Shallow	61	62	ND
GP-T37-10	LL2	504352.22	2615659.73	11/14/2007	Shallow	73	74	ND
GP-T37-10	LL2	504352.22	2615659.73	11/14/2007	Intermediate	84	85	13
GP-T37-10	LL2	504352.22	2615659.73	11/14/2007	Intermediate	96	97	37
GP-T37-11	LL2	504350.43	2614925.33	11/16/2007	Shallow	62	63	30
GP-T37-11	LL2	504350.43	2614925.33	11/16/2007	Shallow	75	76	130 J
GP-T37-11	LL2	504350.43	2614925.33	11/16/2007	Shallow	75	76	140 J
GP-T37-11	LL2	504350.43	2614925.33	11/16/2007	Shallow	75	76	95
GP-T37-11	LL2	504350.43	2614925.33	11/16/2007	Shallow	75	76	98
GP-T37-11	LL2	504350.43	2614925.33	11/16/2007	Intermediate	87	88	40
GP-T37-11	LL2	504350.43	2614925.33	11/16/2007	Intermediate	100	101	18
GP-T37-12	LL2	503159.57	2615758.31	11/16/2007	Shallow	60	61	3
GP-T37-12	LL2	503159.57	2615758.31	11/16/2007	Shallow	72	73	ND
GP-T37-12	LL2	503159.57	2615758.31	11/16/2007	Intermediate	83	84	1
GP-T37-12	LL2	503159.57	2615758.31	11/16/2007	Intermediate	95	96	ND
GP-T37-12	LL2	503159.57	2615758.31	11/16/2007	Intermediate	95	96	4.5
GP-T37-13	LL2	504533.10	2615699.43	11/27/2007	Shallow	60	61	5.8

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GP-T37-13	LL2	504533.10	2615699.43	11/27/2007	Shallow	72	73	26
GP-T37-13	LL2	504533.10	2615699.43	11/27/2007	Intermediate	83	84	21 J
GP-T37-13	LL2	504533.10	2615699.43	11/27/2007	Intermediate	95	96	24
GP-T37-14	LL2	503663.78	2614255.52	11/28/2007	Shallow	64	65	ND
GP-T37-14	LL2	503663.78	2614255.52	11/28/2007	Shallow	78	79	0.3 J
GP-T37-14	LL2	503663.78	2614255.52	11/28/2007	Intermediate	91	92	ND
GP-T37-14	LL2	503663.78	2614255.52	11/28/2007	Intermediate	102	103	ND
GP-T37-15	LL2	504907.10	2615568.44	11/28/2007	Shallow	57	58	0.4 J
GP-T37-15	LL2	504907.10	2615568.44	11/28/2007	Shallow	68	69	0.4 J
GP-T37-15	LL2	504907.10	2615568.44	11/27/2007	Intermediate	80	81	1
GP-T37-15	LL2	504907.10	2615568.44	11/27/2007	Intermediate	92	93	2.8
GP-T37-16	LL2	504900.69	2614883.64	11/28/2007	Shallow	59	60	55
GP-T37-16	LL2	504900.69	2614883.64	11/28/2007	Shallow	71	72	180 D
GP-T37-16	LL2	504900.69	2614883.64	11/28/2007	Intermediate	83	84	120 D
GP-T37-16	LL2	504900.69	2614883.64	11/28/2007	Intermediate	95	96	110
GP-T39-06	LL2	500553.54	2615271.86	11/17/2007	Shallow	63	64	ND
GP-T39-06	LL2	500553.54	2615271.86	11/17/2007	Shallow	77	78	ND
GP-T39-06	LL2	500553.54	2615271.86	11/17/2007	Intermediate	90	91	ND
GP-T39-06	LL2	500553.54	2615271.86	11/17/2007	Intermediate	104	105	ND
GP-T39-07	LL2	501008.15	2615601.22	11/17/2007	Shallow	61	62	ND
GP-T39-07	LL2	501008.15	2615601.22	11/17/2007	Shallow	74	75	ND
GP-T39-07	LL2	501008.15	2615601.22	11/17/2007	Intermediate	87	88	ND
GP-T39-07	LL2	501008.15	2615601.22	11/17/2007	Intermediate	100	101	ND
GP-T39-08	LL2	501422.33	2616077.44	11/17/2007	Shallow	60	61	ND
GP-T39-08	LL2	501422.33	2616077.44	11/17/2007	Shallow	72	73	ND
GP-T39-08	LL2	501422.33	2616077.44	11/17/2007	Intermediate	84	85	ND
GP-T39-08	LL2	501422.33	2616077.44	11/17/2007	Intermediate	96	97	ND
GP-T39-09	LL2	501893.16	2616474.02	11/17/2007	Shallow	59	60	ND
GP-T39-09	LL2	501893.16	2616474.02	11/17/2007	Shallow	70	71	ND
GP-T39-09	LL2	501893.16	2616474.02	11/17/2007	Intermediate	81	82	ND
GP-T39-09	LL2	501893.16	2616474.02	11/17/2007	Intermediate	81	82	1.3
GP-T39-09	LL2	501893.16	2616474.02	11/17/2007	Intermediate	92	93	ND
GP-T39-10	LL2	502321.11	2616717.59	11/20/2007	Shallow	60	61	ND
GP-T39-10	LL2	502321.11	2616717.59	11/20/2007	Shallow	70	71	ND
GP-T39-10	LL2	502321.11	2616717.59	11/20/2007	Intermediate	81	82	2
GP-T39-10	LL2	502321.11	2616717.59	11/20/2007	Intermediate	92	93	8
GP-T39-11	LL2	502757.84	2616986.74	11/19/2007	Shallow	57	58	ND
GP-T39-11	LL2	502757.84	2616986.74	11/19/2007	Shallow	67	68	ND
GP-T39-11	LL2	502757.84	2616986.74	11/19/2007	Intermediate	77	78	ND
GP-T39-11	LL2	502757.84	2616986.74	11/19/2007	Intermediate	87	88	ND
GP-T39-12	LL2	503202.90	2617538.55	11/27/2007	Shallow	56	57	ND
GP-T39-12	LL2	503202.90	2617538.55	11/27/2007	Shallow	66	67	ND
GP-T39-12	LL2	503202.90	2617538.55	11/27/2007	Intermediate	77	78	ND
GP-T39-12	LL2	503202.90	2617538.55	11/27/2007	Intermediate	87	88	ND
GP-T39-13	LL2	503720.58	2617088.45	11/26/2007	Shallow	55	56	ND
GP-T39-13	LL2	503720.58	2617088.45	11/26/2007	Shallow	66	67	ND
GP-T39-13	LL2	503720.58	2617088.45	11/26/2007	Intermediate	77	78	ND
GP-T39-13	LL2	503720.58	2617088.45	11/26/2007	Intermediate	87	88	ND
GP-T39-14	LL2	501912.31	2617040.98	11/27/2007	Shallow	60	61	0.3 J
GP-T39-14	LL2	501912.31	2617040.98	11/27/2007	Shallow	70	71	2.4

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T39-14	LL2	501912.31	2617040.98	11/27/2007	Intermediate	81	82	5.5
GP-T39-14	LL2	501912.31	2617040.98	11/27/2007	Intermediate	92	93	3.8
GP-T39-15	LL2	501501.83	2617580.46	11/27/2007	Shallow	61	62	0.5 J
GP-T39-15	LL2	501501.83	2617580.46	11/27/2007	Shallow	72	73	1.5
GP-T39-15	LL2	501501.83	2617580.46	11/27/2007	Intermediate	83	84	1.6
GP-T39-15	LL2	501501.83	2617580.46	11/27/2007	Intermediate	94	95	1
GP-T40-09	LL2	500223.33	2617267.83	11/18/2007	Shallow	64	65	ND
GP-T40-09	LL2	500223.33	2617267.83	11/18/2007	Shallow	75	76	ND
GP-T40-09	LL2	500223.33	2617267.83	11/18/2007	Intermediate	86	87	ND
GP-T40-09	LL2	500223.33	2617267.83	11/18/2007	Intermediate	97	98	ND
GP-T40-10	LL2	500622.85	2617511.30	11/18/2007	Shallow	63	64	ND
GP-T40-10	LL2	500622.85	2617511.30	11/18/2007	Shallow	75	76	ND
GP-T40-10	LL2	500622.85	2617511.30	11/18/2007	Intermediate	86	87	ND
GP-T40-10	LL2	500622.85	2617511.30	11/18/2007	Intermediate	97	98	ND
GP-T50-01	LL2	495820.13	2618358.34	11/15/2007	Shallow	75	76	ND
GP-T50-01	LL2	495820.13	2618358.34	11/15/2007	Shallow	86	87	ND
GP-T50-01	LL2	495820.13	2618358.34	11/15/2007	Intermediate	96	97	ND
GP-T50-01	LL2	495820.13	2618358.34	11/15/2007	Intermediate	102	103	ND
GP-T50-02	LL2	496272.41	2619162.18	11/15/2007	Shallow	66	67	ND
GP-T50-02	LL2	496272.41	2619162.18	11/15/2007	Shallow	75	76	ND
GP-T50-02	LL2	496272.41	2619162.18	11/15/2007	Intermediate	85	86	ND
GP-T50-02	LL2	496272.41	2619162.18	11/15/2007	Intermediate	94	95	ND
GP-T50-03	LL2	496669.84	2619838.18	11/15/2007	Shallow	72	73	ND
GP-T50-03	LL2	496669.84	2619838.18	11/15/2007	Shallow	81	82	ND
GP-T50-03	LL2	496669.84	2619838.18	11/15/2007	Intermediate	89	90	ND
GP-T50-03	LL2	496669.84	2619838.18	11/15/2007	Intermediate	98	99	ND
GP-T50-04	LL2	497272.14	2620376.74	11/16/2007	Shallow	70	71	ND
GP-T50-04	LL2	497272.14	2620376.74	11/16/2007	Shallow	78	79	ND
GP-T50-04	LL2	497272.14	2620376.74	11/16/2007	Intermediate	86	87	ND
GP-T50-04	LL2	497272.14	2620376.74	11/16/2007	Intermediate	94	95	ND
GP-T50-05	LL2	497743.21	2620860.20	11/15/2007	Shallow	64	65	ND
GP-T50-05	LL2	497743.21	2620860.20	11/15/2007	Shallow	72	73	ND
GP-T50-05	LL2	497743.21	2620860.20	11/15/2007	Intermediate	80	81	ND
GP-T50-05	LL2	497743.21	2620860.20	11/15/2007	Intermediate	88	89	ND
GP-T65-001	LL2	504912.30	2614872.15	3/12/2010	Shallow	51	52	2.5 J
GP-T65-001	LL2	504912.30	2614872.15	3/12/2010	Shallow	58	59	7.3
GP-T65-001	LL2	504912.30	2614872.15	3/12/2010	Shallow	65	66	23
GP-T65-001	LL2	504912.30	2614872.15	3/12/2010	Shallow	72	73	110 J
GP-T65-001	LL2	504912.30	2614872.15	3/12/2010	Intermediate	79	80	53 J
GP-T65-001	LL2	504912.30	2614872.15	3/12/2010	Intermediate	86	87	34 J
GP-T65-001	LL2	504912.30	2614872.15	3/12/2010	Intermediate	93	94	56 J
GP-T65-001	LL2	504912.30	2614872.15	3/12/2010	Intermediate	100	101	57 J
GP-T65-002	LL2	505081.57	2614750.61	3/18/2010	Shallow	51	52	36
GP-T65-002	LL2	505081.57	2614750.61	3/18/2010	Shallow	58	59	37
GP-T65-002	LL2	505081.57	2614750.61	3/18/2010	Shallow	65	66	100 J
GP-T65-002	LL2	505081.57	2614750.61	3/17/2010	Shallow	72	73	34
GP-T65-002	LL2	505081.57	2614750.61	3/17/2010	Intermediate	79	80	28
GP-T65-002	LL2	505081.57	2614750.61	3/17/2010	Intermediate	86	87	52
GP-T65-002	LL2	505081.57	2614750.61	3/17/2010	Intermediate	93	94	51
GP-T65-003	LL2	504325.25	2614928.35	3/15/2010	Shallow	55	56	2 J

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T65-003	LL2	504325.25	2614928.35	3/15/2010	Shallow	62	63	24 J
GP-T65-003	LL2	504325.25	2614928.35	3/15/2010	Shallow	69	70	42 J
GP-T65-003	LL2	504325.25	2614928.35	3/15/2010	Shallow	76	77	36 J
GP-T65-003	LL2	504325.25	2614928.35	3/14/2010	Intermediate	83	84	26
GP-T65-003	LL2	504325.25	2614928.35	3/14/2010	Intermediate	90	91	18 J
GP-T65-003	LL2	504325.25	2614928.35	3/14/2010	Intermediate	97	98	0.46 J
GP-T65-004	LL2	504691.18	2614665.42	3/25/2010	Shallow	50	51	4 J
GP-T65-004	LL2	504691.18	2614665.42	3/25/2010	Shallow	57	58	11 J
GP-T65-004	LL2	504691.18	2614665.42	3/25/2010	Shallow	64	65	68
GP-T65-004	LL2	504691.18	2614665.42	3/25/2010	Shallow	71	72	110 J
GP-T65-004	LL2	504691.18	2614665.42	3/25/2010	Intermediate	78	79	35 J
GP-T65-004	LL2	504691.18	2614665.42	3/25/2010	Intermediate	85	86	22 J
GP-T65-004	LL2	504691.18	2614665.42	3/25/2010	Intermediate	92	93	1.6 J
GP-T65-004	LL2	504691.18	2614665.42	3/25/2010	Intermediate	99	100	ND
GP-T65-005	LL2	504912.79	2614587.46	3/24/2010	Shallow	49	50	0.89 J
GP-T65-005	LL2	504912.79	2614587.46	3/23/2010	Shallow	56	57	3.4 J
GP-T65-005	LL2	504912.79	2614587.46	3/23/2010	Shallow	63	64	19 J
GP-T65-005	LL2	504912.79	2614587.46	3/23/2010	Shallow	70	71	110
GP-T65-005	LL2	504912.79	2614587.46	3/23/2010	Intermediate	77	78	29 J
GP-T65-005	LL2	504912.79	2614587.46	3/23/2010	Intermediate	84	85	13
GP-T65-005	LL2	504912.79	2614587.46	3/23/2010	Intermediate	91	92	20 J
GP-T65-005	LL2	504912.79	2614587.46	3/23/2010	Intermediate	99	100	5.2
GP-T65-006	LL2	504921.26	2615239.10	3/24/2010	Shallow	49	50	0.89 J
GP-T65-006	LL2	504921.26	2615239.10	3/24/2010	Shallow	56	57	0.93 J
GP-T65-006	LL2	504921.26	2615239.10	3/24/2010	Shallow	63	64	2.4 J
GP-T65-006	LL2	504921.26	2615239.10	3/24/2010	Shallow	63	64	2.5 J
GP-T65-006	LL2	504921.26	2615239.10	3/24/2010	Shallow	70	71	2.9
GP-T65-006	LL2	504921.26	2615239.10	3/24/2010	Shallow	70	71	3.2
GP-T65-006	LL2	504921.26	2615239.10	3/24/2010	Intermediate	78	79	2.9 J
GP-T65-006	LL2	504921.26	2615239.10	3/24/2010	Intermediate	85	86	14
GP-T65-006	LL2	504921.26	2615239.10	3/24/2010	Intermediate	92	93	34
GP-T65-006	LL2	504921.26	2615239.10	3/24/2010	Intermediate	99	100	43
GP-T65-007	LL2	504727.08	2614948.62	3/19/2010	Shallow	54	55	5.3
GP-T65-007	LL2	504727.08	2614948.62	3/19/2010	Shallow	61	62	8.5 J
GP-T65-007	LL2	504727.08	2614948.62	3/19/2010	Shallow	68	69	52 J
GP-T65-007	LL2	504727.08	2614948.62	3/19/2010	Shallow	75	76	75
GP-T65-007	LL2	504727.08	2614948.62	3/19/2010	Intermediate	82	83	41
GP-T65-007	LL2	504727.08	2614948.62	3/19/2010	Intermediate	89	90	31
GP-T65-007	LL2	504727.08	2614948.62	3/18/2010	Intermediate	96	97	58 J
GP-T65-007	LL2	504727.08	2614948.62	3/18/2010	Intermediate	103	104	39
GP-T65-008	LL2	504913.00	2615037.42	3/23/2010	Shallow	51	52	4.6
GP-T65-008	LL2	504913.00	2615037.42	3/22/2010	Shallow	58	59	5.1 J
GP-T65-008	LL2	504913.00	2615037.42	3/22/2010	Shallow	65	66	6.1
GP-T65-008	LL2	504913.00	2615037.42	3/22/2010	Shallow	72	73	31
GP-T65-008	LL2	504913.00	2615037.42	3/22/2010	Intermediate	79	80	110 J
GP-T65-008	LL2	504913.00	2615037.42	3/22/2010	Intermediate	86	87	51 J
GP-T65-008	LL2	504913.00	2615037.42	3/22/2010	Intermediate	93	94	48 J
GP-T65-008	LL2	504913.00	2615037.42	3/22/2010	Intermediate	93	94	49
GP-T65-008	LL2	504913.00	2615037.42	3/22/2010	Intermediate	100	101	37
GP-T65-009	LL2	505238.40	2614675.14	3/23/2010	Shallow	51	52	1.5

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T65-009	LL2	505238.40	2614675.14	3/23/2010	Shallow	58	59	4.3
GP-T65-009	LL2	505238.40	2614675.14	3/23/2010	Shallow	65	66	23
GP-T65-009	LL2	505238.40	2614675.14	3/23/2010	Shallow	72	73	60
GP-T65-009	LL2	505238.40	2614675.14	3/23/2010	Intermediate	79	80	31
GP-T65-009	LL2	505238.40	2614675.14	3/23/2010	Intermediate	86	87	29
GP-T65-009	LL2	505238.40	2614675.14	3/23/2010	Intermediate	93	94	27
GP-T65-009	LL2	505238.40	2614675.14	3/23/2010	Intermediate	100	101	4.1
GP-T65-009	LL2	505238.40	2614675.14	3/23/2010	Intermediate	100	101	4.5
GP-T65-010	LL2	504903.96	2614372.03	3/24/2010	Shallow	46	47	1 J
GP-T65-010	LL2	504903.96	2614372.03	3/24/2010	Shallow	53	54	0.69 J
GP-T65-010	LL2	504903.96	2614372.03	3/24/2010	Shallow	60	61	3.6 J
GP-T65-010	LL2	504903.96	2614372.03	3/24/2010	Shallow	67	68	2.3
GP-T65-010	LL2	504903.96	2614372.03	3/24/2010	Intermediate	74	75	4.4 J
GP-T65-010	LL2	504903.96	2614372.03	3/24/2010	Intermediate	81	82	5.7 J
GP-T65-010	LL2	504903.96	2614372.03	3/24/2010	Intermediate	88	89	5.9
GP-T65-010	LL2	504903.96	2614372.03	3/24/2010	Intermediate	95	96	3 J
GP-T65-011	LL2	504475.12	2614582.44	3/26/2010	Shallow	50	51	1.3
GP-T65-011	LL2	504475.12	2614582.44	3/26/2010	Shallow	57	58	7.7
GP-T65-011	LL2	504475.12	2614582.44	3/26/2010	Shallow	64	65	7.7
GP-T65-011	LL2	504475.12	2614582.44	3/26/2010	Shallow	71	72	33
GP-T65-011	LL2	504475.12	2614582.44	3/26/2010	Shallow	71	72	34
GP-T65-011	LL2	504475.12	2614582.44	3/26/2010	Intermediate	78	79	10
GP-T65-011	LL2	504475.12	2614582.44	3/26/2010	Intermediate	85	86	8.1
GP-T65-011	LL2	504475.12	2614582.44	3/26/2010	Intermediate	92	93	0.47 J
GP-T65-011	LL2	504475.12	2614582.44	3/26/2010	Intermediate	99	100	ND
GP-T65-012	LL2	504089.39	2615103.32	3/29/2010	Shallow	58	59	30
GP-T65-012	LL2	504089.39	2615103.32	3/29/2010	Shallow	65	66	37
GP-T65-012	LL2	504089.39	2615103.32	3/29/2010	Shallow	72	73	110
GP-T65-012	LL2	504089.39	2615103.32	3/29/2010	Shallow	79	80	150
GP-T65-012	LL2	504089.39	2615103.32	3/29/2010	Intermediate	86	87	99
GP-T65-012	LL2	504089.39	2615103.32	3/29/2010	Intermediate	93	94	43
GP-T65-012	LL2	504089.39	2615103.32	3/29/2010	Intermediate	100	101	5.7
GP-T65-012	LL2	504089.39	2615103.32	3/29/2010	Intermediate	100	101	6.4
GP-T65-013	LL2	504128.76	2614729.78	3/30/2010	Shallow	51	52	0.5 J
GP-T65-013	LL2	504128.76	2614729.78	3/30/2010	Shallow	58	59	1.9
GP-T65-013	LL2	504128.76	2614729.78	3/30/2010	Shallow	65	66	5.5 J
GP-T65-013	LL2	504128.76	2614729.78	3/30/2010	Shallow	72	73	7
GP-T65-013	LL2	504128.76	2614729.78	3/30/2010	Intermediate	79	80	14
GP-T65-013	LL2	504128.76	2614729.78	3/30/2010	Intermediate	86	87	13 J
GP-T65-013	LL2	504128.76	2614729.78	3/30/2010	Intermediate	93	94	0.48 J
GP-T65-013	LL2	504128.76	2614729.78	3/30/2010	Intermediate	100	101	0.61 J
GP-T65-014	LL2	504363.23	2615261.98	4/1/2010	Shallow	58	59	9.7
GP-T65-014	LL2	504363.23	2615261.98	4/1/2010	Shallow	65	66	28
GP-T65-014	LL2	504363.23	2615261.98	4/1/2010	Shallow	74	75	94
GP-T65-014	LL2	504363.23	2615261.98	4/1/2010	Intermediate	79	80	82
GP-T65-014	LL2	504363.23	2615261.98	4/1/2010	Intermediate	79	80	82
GP-T65-014	LL2	504363.23	2615261.98	4/1/2010	Intermediate	86	87	72
GP-T65-014	LL2	504363.23	2615261.98	4/1/2010	Intermediate	93	94	53
GP-T65-015	LL2	503895.43	2615262.79	5/4/2010	Shallow	50	51	12 J
GP-T65-015	LL2	503895.43	2615262.79	4/13/2010	Shallow	52	53	12

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T65-015	LL2	503895.43	2615262.79	4/13/2010	Shallow	59	60	34
GP-T65-015	LL2	503895.43	2615262.79	4/13/2010	Shallow	66	67	110
GP-T65-015	LL2	503895.43	2615262.79	4/13/2010	Intermediate	73	74	69
GP-T65-015	LL2	503895.43	2615262.79	4/13/2010	Intermediate	80	81	66
GP-T65-015	LL2	503895.43	2615262.79	4/13/2010	Intermediate	87	88	52
GP-T65-015	LL2	503895.43	2615262.79	4/13/2010	Intermediate	94	95	55
GP-T65-016	LL2	504079.97	2615466.44	4/14/2010	Shallow	54	55	6.4
GP-T65-016	LL2	504079.97	2615466.44	4/14/2010	Shallow	61	62	14
GP-T65-016	LL2	504079.97	2615466.44	4/14/2010	Shallow	68	69	120
GP-T65-016	LL2	504079.97	2615466.44	4/14/2010	Shallow	75	76	130
GP-T65-016	LL2	504079.97	2615466.44	4/14/2010	Intermediate	82	83	110
GP-T65-016	LL2	504079.97	2615466.44	4/14/2010	Intermediate	89	90	84
GP-T65-016	LL2	504079.97	2615466.44	4/14/2010	Intermediate	94	95	6.3
GP-T65-016	LL2	504079.97	2615466.44	4/14/2010	Intermediate	96	97	5
GP-T65-016	LL2	504079.97	2615466.44	4/14/2010	Intermediate	96	97	5.2
GP-T65-017	LL2	503697.68	2615400.53	5/4/2010	Shallow	57	58	30 J
GP-T65-017	LL2	503697.68	2615400.53	5/4/2010	Shallow	64	65	120 J
GP-T65-017	LL2	503697.68	2615400.53	5/4/2010	Shallow	71	72	150 J
GP-T65-017	LL2	503697.68	2615400.53	5/4/2010	Intermediate	78	79	130
GP-T65-017	LL2	503697.68	2615400.53	5/4/2010	Intermediate	85	86	110 J
GP-T65-017	LL2	503697.68	2615400.53	5/3/2010	Intermediate	99	100	83 J
GP-T65-018	LL2	503144.46	2615766.53	5/6/2010	Shallow	56	57	1.4
GP-T65-018	LL2	503144.46	2615766.53	5/6/2010	Shallow	63	64	2.2
GP-T65-018	LL2	503144.46	2615766.53	5/6/2010	Shallow	70	71	5.2
GP-T65-018	LL2	503144.46	2615766.53	5/6/2010	Shallow	70	71	5.3
GP-T65-018	LL2	503144.46	2615766.53	5/6/2010	Shallow	70	71	5.4
GP-T65-018	LL2	503144.46	2615766.53	5/6/2010	Shallow	77	78	5.3
GP-T65-018	LL2	503144.46	2615766.53	5/6/2010	Shallow	77	78	5.5
GP-T65-018	LL2	503144.46	2615766.53	5/6/2010	Intermediate	84	85	11
GP-T65-018	LL2	503144.46	2615766.53	5/6/2010	Intermediate	91	92	6.9
GP-T65-018	LL2	503144.46	2615766.53	5/6/2010	Intermediate	98	99	12
GP-T65-018	LL2	503144.46	2615766.53	5/6/2010	Intermediate	105	106	14
GP-T65-019	LL2	502667.62	2616139.67	5/7/2010	Shallow	56	57	ND
GP-T65-019	LL2	502667.62	2616139.67	5/7/2010	Shallow	63	64	1.2
GP-T65-019	LL2	502667.62	2616139.67	5/7/2010	Shallow	70	71	1.6
GP-T65-019	LL2	502667.62	2616139.67	5/7/2010	Shallow	77	78	ND
GP-T65-019	LL2	502667.62	2616139.67	5/7/2010	Intermediate	84	85	2.2
GP-T65-019	LL2	502667.62	2616139.67	5/7/2010	Intermediate	91	92	2.9
GP-T65-019	LL2	502667.62	2616139.67	5/7/2010	Intermediate	98	99	0.57 J
GP-T66-010	LL2	502092.14	2616181.65	3/16/2010	Shallow	60	61	ND
GP-T66-010	LL2	502092.14	2616181.65	3/16/2010	Shallow	67	68	ND
GP-T66-010	LL2	502092.14	2616181.65	3/16/2010	Shallow	74	75	ND
GP-T66-010	LL2	502092.14	2616181.65	3/15/2010	Intermediate	81	82	1.2
GP-T66-010	LL2	502092.14	2616181.65	3/15/2010	Intermediate	88	89	1.9
GP-T66-010	LL2	502092.14	2616181.65	3/15/2010	Intermediate	95	96	3.2
GP-T67-009	LL2	500648.38	2617421.11	3/10/2010	Shallow	56	57	ND
GP-T67-009	LL2	500648.38	2617421.11	3/10/2010	Shallow	62	63	ND
GP-T67-009	LL2	500648.38	2617421.11	3/10/2010	Shallow	69	70	ND
GP-T67-009	LL2	500648.38	2617421.11	3/10/2010	Shallow	76	77	ND
GP-T67-009	LL2	500648.38	2617421.11	3/10/2010	Intermediate	83	84	ND

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T67-009	LL2	500648.38	2617421.11	3/10/2010	Intermediate	90	91	ND
GP-T67-009	LL2	500648.38	2617421.11	3/10/2010	Intermediate	97	98	ND
GP-T67-009	LL2	500648.38	2617421.11	3/10/2010	Intermediate	103	104	0.3 J
GP-T67-010	LL2	500702.18	2617547.49	3/11/2010	Shallow	62	63	ND
GP-T67-010	LL2	500702.18	2617547.49	3/11/2010	Shallow	76	77	0.36 J
GP-T67-010	LL2	500702.18	2617547.49	3/11/2010	Shallow	76	77	0.44 J
GP-T67-010	LL2	500702.18	2617547.49	3/11/2010	Shallow	83	84	1.2
GP-T67-010	LL2	500702.18	2617547.49	3/11/2010	Intermediate	90	91	3.3
GP-T67-010	LL2	500702.18	2617547.49	3/11/2010	Intermediate	97	98	1.9
GP-T67-010	LL2	500702.18	2617547.49	3/11/2010	Intermediate	103	104	2
GP-T91-007	LL2	502656.40	2615233.68	11/16/2011	Shallow	41	42	ND
GP-T91-007	LL2	502656.40	2615233.68	11/16/2011	Shallow	51	52	0.22 J
GP-T91-007	LL2	502656.40	2615233.68	11/16/2011	Shallow	61	62	0.39 J
GP-T91-007	LL2	502656.40	2615233.68	11/16/2011	Shallow	71	72	0.63 J
GP-T91-007	LL2	502656.40	2615233.68	11/16/2011	Intermediate	81	82	4.1
GP-T91-007	LL2	502656.40	2615233.68	11/16/2011	Intermediate	91	92	3.7
GP-T91-007	LL2	502656.40	2615233.68	11/16/2011	Intermediate	101	102	1.9
GP-T91-008	LL2	502870.14	2615666.87	11/17/2011	Shallow	54	55	1.9
GP-T91-008	LL2	502870.14	2615666.87	11/17/2011	Shallow	64	65	7
GP-T91-008	LL2	502870.14	2615666.87	11/16/2011	Shallow	74	75	20 J
GP-T91-008	LL2	502870.14	2615666.87	11/16/2011	Intermediate	84	85	21
GP-T91-008	LL2	502870.14	2615666.87	11/16/2011	Intermediate	94	95	1.5
GP-T91-008	LL2	502870.14	2615666.87	11/16/2011	Intermediate	104	105	0.37 J
GP-T91-009	LL2	503087.81	2616126.31	11/17/2011	Shallow	51	52	1.3
GP-T91-009	LL2	503087.81	2616126.31	11/17/2011	Shallow	61	62	2.5
GP-T91-009	LL2	503087.81	2616126.31	11/17/2011	Shallow	71	72	15
GP-T91-009	LL2	503087.81	2616126.31	11/17/2011	Intermediate	81	82	27
GP-T91-009	LL2	503087.81	2616126.31	11/17/2011	Intermediate	81	82	25
GP-T91-009	LL2	503087.81	2616126.31	11/17/2011	Intermediate	91	92	29
GP-T91-009	LL2	503087.81	2616126.31	11/17/2011	Intermediate	101	102	65
GP-T91-010	LL2	503188.71	2616672.10	11/17/2011	Shallow	55	56	0.4 J
GP-T91-010	LL2	503188.71	2616672.10	11/17/2011	Shallow	65	66	2.3
GP-T91-010	LL2	503188.71	2616672.10	11/17/2011	Shallow	75	76	3.3
GP-T91-010	LL2	503188.71	2616672.10	11/17/2011	Intermediate	85	86	2.3
GP-T91-010	LL2	503188.71	2616672.10	11/17/2011	Intermediate	85	86	2.3
GP-T91-010	LL2	503188.71	2616672.10	11/17/2011	Intermediate	95	96	2
GP-T91-010	LL2	503188.71	2616672.10	11/17/2011	Intermediate	105	106	ND
GP-T94-010	LL2	499519.66	2619030.22	12/7/2011	Intermediate	94	95	0.22 J
GP-T94-011	LL2	499857.27	2619432.25	12/7/2011	Shallow	69	70	ND
GP-T94-011	LL2	499857.27	2619432.25	12/7/2011	Intermediate	89	90	ND
GP-T94-012	LL2	500166.14	2619846.16	12/7/2011	Shallow	72	73	ND
GP-T94-012	LL2	500166.14	2619846.16	12/7/2011	Intermediate	102	103	ND
GP-T94-013	LL2	500489.26	2620255.19	12/7/2011	Intermediate	81	82	ND
GP-T94-014	LL2	500812.20	2620615.31	12/6/2011	Shallow	59	60	ND
GP-T94-014	LL2	500812.20	2620615.31	12/6/2011	Intermediate	89	90	ND
MW-04B	LL2	506259.36	2612051.43	3/10/2011	Shallow	32.1	71.2	ND
MW-05A	LL2	507097.62	2613044.09	6/8/2012	Intermediate	61.8	100.8	0.37 J
MW-05B	LL2	507097.47	2613053.87	6/8/2012	Shallow	30	59.3	1.1
MW-144A	LL2	503570.97	2614012.25	7/19/2011	Intermediate	91	101	ND
MW-144E	LL2	503573.10	2614019.84	7/19/2011	Intermediate	75	85	ND

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
MW-144E	LL2	503573.10	2614019.84	7/19/2011	Intermediate	75	85	ND
MW-145A	LL2	500652.84	2617407.83	7/19/2011	Intermediate	85.7	95.7	ND
MW-145E	LL2	500652.99	2617414.44	7/19/2011	Intermediate	72	82	0.53 J
MW-146A	LL2	494899.38	2618871.66	6/7/2012	Intermediate	87	97	ND
MW-146B	LL2	494899.37	2618871.66	6/7/2012	Shallow	67	77	ND
MW-147A	LL2	494474.75	2620042.45	3/7/2012	Intermediate	90	100	ND
MW-147B	LL2	494471.71	2620045.18	3/7/2012	Shallow	67	77	ND
MW-147D	LL2	494467.74	2620047.88	3/7/2012	Intermediate	115	125	ND
MW-20A	LL2	493189.94	2616622.54	3/2/2012	Intermediate	145	150.4	ND
MW-20B	LL2	493191.47	2616633.42	3/2/2012	Shallow	128.6	133.6	ND
MW-20C	LL2	493187.60	2616611.42	3/2/2012	Shallow	50.3	60.3	ND
MW-31A	LL2	503233.69	2617943.94	11/10/2011	Intermediate	94.5	104.5	0.21 J
MW-31B	LL2	503238.63	2617935.16	11/10/2011	Shallow	50	60	ND
MW-31B	LL2	503238.63	2617935.16	11/10/2011	Shallow	50	60	ND
MW-32A	LL2	499062.26	2619697.25	2/17/2009	Intermediate	88.5	98.5	2.5
MW-65A	LL2	506090.52	2613203.05	3/10/2011	Intermediate	92.5	102.5	ND
MW-65A	LL2	506090.52	2613203.05	3/10/2011	Intermediate	92.5	102.5	ND
MW-66A	LL2	506026.73	2613278.51	2/20/2009	Intermediate	89	99	0.21 J
MW-71B	LL2	506090.26	2613382.61	3/10/2011	Shallow	36	66	0.45 J
MW-82A	LL2	493318.05	2619288.64	3/2/2012	Intermediate	89.5	94.5	ND
MW-82B	LL2	493325.46	2619284.94	3/2/2012	Shallow	61.2	65.7	ND
MW-82D	LL2	493310.90	2619293.00	3/2/2012	Intermediate	120	125	ND
MW-83A	LL2	495274.66	2621924.07	3/2/2012	Intermediate	103.5	108.5	ND
MW-83B	LL2	495302.77	2621921.78	3/2/2012	Shallow	75	80	ND
MW-83D	LL2	495288.85	2621922.97	3/2/2012	Intermediate	116	121	ND
MW-84A	LL2	495685.50	2624277.77	3/2/2012	Intermediate	87.13	91.13	ND
MW-84B	LL2	495712.89	2624272.03	3/2/2012	Shallow	66.5	71.5	ND
MW-84D	LL2	495695.58	2624275.75	3/2/2012	Intermediate	103.5	108.5	ND
MW-95A	LL2	494508.64	2617552.81	3/7/2012	Intermediate	93	103	ND
MW-95B	LL2	494508.00	2617546.97	3/7/2012	Shallow	65	75	ND
MW-95D	LL2	494509.12	2617558.45	3/7/2012	Intermediate	124.5	129.5	ND
MW-96A	LL2	493387.72	2621468.22	3/2/2012	Intermediate	82.5	92.5	ND
MW-96B	LL2	493387.79	2621468.22	3/2/2012	Shallow	71	81	ND
MW-96D	LL2	493387.89	2621476.24	3/2/2012	Intermediate	101.5	106	ND
MW-97A	LL2	493492.82	2623938.03	3/1/2012	Intermediate	83	93	ND
MW-97B	LL2	493492.44	2623932.69	3/1/2012	Shallow	68	73	ND
MW-97D	LL2	493493.12	2623943.47	3/1/2012	Intermediate	99.98	105.5	ND
GP-T45-14	LL3	496812.09	2626551.50	11/14/2007	Shallow	62	63	ND
GP-T45-14	LL3	496812.09	2626551.50	11/14/2007	Shallow	71	72	ND
GP-T45-14	LL3	496812.09	2626551.50	11/14/2007	Intermediate	80	81	ND
GP-T45-14	LL3	496812.09	2626551.50	11/14/2007	Intermediate	89	90	ND
GP-T48-01	LL3	500804.05	2622343.00	11/15/2007	Shallow	68	69	ND
GP-T48-01	LL3	500804.05	2622343.00	11/15/2007	Shallow	78	79	ND
GP-T48-01	LL3	500804.05	2622343.00	11/15/2007	Intermediate	87	88	ND
GP-T48-01	LL3	500804.05	2622343.00	11/15/2007	Intermediate	97	98	ND
GP-T48-02	LL3	501259.56	2622824.58	11/19/2007	Shallow	69	70	ND
GP-T48-02	LL3	501259.56	2622824.58	11/19/2007	Shallow	79	80	ND
GP-T48-02	LL3	501259.56	2622824.58	11/19/2007	Intermediate	89	90	ND
GP-T48-02	LL3	501259.56	2622824.58	11/19/2007	Intermediate	99	100	ND
GP-T48-03	LL3	501700.88	2623716.39	11/19/2007	Shallow	63	64	ND

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T48-03	LL3	501700.88	2623716.39	11/19/2007	Shallow	74	75	ND
GP-T48-03	LL3	501700.88	2623716.39	11/19/2007	Intermediate	84	85	ND
GP-T48-03	LL3	501700.88	2623716.39	11/19/2007	Intermediate	94	95	ND
GP-T48-04	LL3	501983.46	2624186.51	11/15/2007	Shallow	61	62	ND
GP-T48-04	LL3	501983.46	2624186.51	11/15/2007	Shallow	72	73	ND
GP-T48-04	LL3	501983.46	2624186.51	11/15/2007	Intermediate	82	83	ND
GP-T48-04	LL3	501983.46	2624186.51	11/15/2007	Intermediate	92	93	ND
GP-T49-01	LL3	498873.32	2623178.80	11/14/2007	Shallow	66	67	ND
GP-T49-01	LL3	498873.32	2623178.80	11/14/2007	Shallow	75	76	ND
GP-T49-01	LL3	498873.32	2623178.80	11/14/2007	Intermediate	85	86	ND
GP-T49-01	LL3	498873.32	2623178.80	11/14/2007	Intermediate	94	95	ND
GP-T49-02	LL3	499278.69	2623955.79	11/18/2007	Shallow	70	71	ND
GP-T49-02	LL3	499278.69	2623955.79	11/18/2007	Shallow	80	81	ND
GP-T49-02	LL3	499278.69	2623955.79	11/18/2007	Intermediate	90	91	ND
GP-T49-02	LL3	499278.69	2623955.79	11/18/2007	Intermediate	100	101	ND
GP-T49-03	LL3	499764.68	2624216.55	11/14/2007	Shallow	64	65	ND
GP-T49-03	LL3	499764.68	2624216.55	11/14/2007	Shallow	74	75	ND
GP-T49-03	LL3	499764.68	2624216.55	11/14/2007	Intermediate	84	85	ND
GP-T49-03	LL3	499764.68	2624216.55	11/14/2007	Intermediate	94	95	ND
GP-T51-01	LL3	502872.63	2618914.03	11/14/2007	Shallow	60	61	ND
GP-T51-01	LL3	502872.63	2618914.03	11/14/2007	Shallow	71	72	ND
GP-T51-01	LL3	502872.63	2618914.03	11/14/2007	Intermediate	83	84	ND
GP-T51-01	LL3	502872.63	2618914.03	11/14/2007	Intermediate	94	95	ND
GP-T51-02	LL3	503597.90	2619536.49	11/14/2007	Shallow	60	61	ND
GP-T51-02	LL3	503597.90	2619536.49	11/14/2007	Shallow	72	73	ND
GP-T51-02	LL3	503597.90	2619536.49	11/14/2007	Intermediate	84	85	ND
GP-T51-02	LL3	503597.90	2619536.49	11/14/2007	Intermediate	96	97	ND
GP-T51-03	LL3	503780.92	2620353.89	11/20/2007	Shallow	62	63	ND
GP-T51-03	LL3	503780.92	2620353.89	11/20/2007	Shallow	74	75	ND
GP-T51-03	LL3	503780.92	2620353.89	11/20/2007	Intermediate	87	88	ND
GP-T51-03	LL3	503780.92	2620353.89	11/20/2007	Intermediate	100	101	ND
GP-T51-04	LL3	503828.20	2621178.67	11/19/2007	Shallow	64	65	ND
GP-T51-04	LL3	503828.20	2621178.67	11/19/2007	Shallow	76	77	ND
GP-T51-04	LL3	503828.20	2621178.67	11/19/2007	Intermediate	89	90	ND
GP-T51-04	LL3	503828.20	2621178.67	11/19/2007	Intermediate	102	103	ND
GP-T75-001	LL3	504421.94	2619749.72	4/16/2010	Shallow	60	61	ND
GP-T75-001	LL3	504421.94	2619749.72	4/16/2010	Intermediate	80	81	ND
GP-T75-001	LL3	504421.94	2619749.72	4/16/2010	Intermediate	100	101	ND
GP-T75-002	LL3	504432.80	2620165.97	4/15/2010	Shallow	67	68	ND
GP-T75-002	LL3	504432.80	2620165.97	4/15/2010	Intermediate	87	88	ND
GP-T75-003	LL3	504449.20	2620630.74	4/15/2010	Shallow	67	68	ND
GP-T75-003	LL3	504449.20	2620630.74	4/15/2010	Intermediate	97	98	ND
GP-T76-001	LL3	502703.39	2620984.63	4/16/2010	Shallow	57	58	ND
GP-T76-001	LL3	502703.39	2620984.63	4/16/2010	Intermediate	77	78	ND
GP-T76-001	LL3	502703.39	2620984.63	4/16/2010	Intermediate	97	98	ND
GP-T76-002	LL3	502722.88	2621347.69	4/19/2010	Shallow	61	62	ND
GP-T76-002	LL3	502722.88	2621347.69	4/16/2010	Intermediate	81	82	ND
GP-T76-002	LL3	502722.88	2621347.69	4/16/2010	Intermediate	101	102	ND
GP-T76-003	LL3	502772.93	2621869.90	4/16/2010	Shallow	62	63	ND
GP-T76-003	LL3	502772.93	2621869.90	4/16/2010	Intermediate	82	83	ND

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GP-T76-003	LL3	502772.93	2621869.90	4/16/2010	Intermediate	102	103	ND
GP-T76-004	LL3	503043.10	2622153.68	4/16/2010	Shallow	53	54	ND
GP-T76-004	LL3	503043.10	2622153.68	4/16/2010	Shallow	63	64	3
GP-T76-004	LL3	503043.10	2622153.68	4/16/2010	Shallow	73	74	2.8
GP-T76-004	LL3	503043.10	2622153.68	4/15/2010	Intermediate	83	84	ND
GP-T76-004	LL3	503043.10	2622153.68	4/15/2010	Intermediate	103	104	0.44 J
GP-T76-005	LL3	503385.33	2622409.45	4/19/2010	Shallow	64	65	2.7
GP-T76-005	LL3	503385.33	2622409.45	4/19/2010	Intermediate	84	85	ND
GP-T76-005	LL3	503385.33	2622409.45	4/19/2010	Intermediate	94	95	ND
GP-T77-004	LL3	502392.30	2622715.23	4/28/2010	Shallow	46	47	ND
GP-T77-004	LL3	502392.30	2622715.23	4/28/2010	Shallow	56	57	ND
GP-T77-004	LL3	502392.30	2622715.23	4/28/2010	Shallow	66	67	ND
GP-T77-004	LL3	502392.30	2622715.23	4/28/2010	Intermediate	76	77	2.1 J
GP-T77-004	LL3	502392.30	2622715.23	4/28/2010	Intermediate	86	87	0.86 J
GP-T77-004	LL3	502392.30	2622715.23	4/28/2010	Intermediate	96	97	ND
GP-T77-005	LL3	502656.59	2623010.80	4/28/2010	Shallow	50	51	110
GP-T77-005	LL3	502656.59	2623010.80	4/28/2010	Shallow	60	61	100
GP-T77-005	LL3	502656.59	2623010.80	4/28/2010	Shallow	60	61	95
GP-T77-005	LL3	502656.59	2623010.80	4/28/2010	Shallow	70	71	26
GP-T77-005	LL3	502656.59	2623010.80	4/28/2010	Intermediate	80	81	3.7
GP-T77-005	LL3	502656.59	2623010.80	4/28/2010	Intermediate	90	91	ND
GP-T77-005	LL3	502656.59	2623010.80	4/28/2010	Intermediate	100	101	ND
GP-T77-006	LL3	503029.35	2623351.63	6/29/2010	Shallow	59	60	ND
GP-T77-006	LL3	503029.35	2623351.63	6/29/2010	Shallow	69	70	ND
GP-T77-006	LL3	503029.35	2623351.63	6/29/2010	Intermediate	79	80	ND
GP-T77-006	LL3	503029.35	2623351.63	6/29/2010	Intermediate	89	90	ND
GP-T77-006	LL3	503029.35	2623351.63	6/29/2010	Intermediate	99	100	ND
GP-T77-007	LL3	503339.00	2623593.50	6/29/2010	Shallow	53	54	ND
GP-T77-007	LL3	503339.00	2623593.50	6/29/2010	Shallow	63	64	ND
GP-T77-007	LL3	503339.00	2623593.50	6/29/2010	Intermediate	73	74	ND
GP-T77-007	LL3	503339.00	2623593.50	6/29/2010	Intermediate	83	84	ND
GP-T77-007	LL3	503339.00	2623593.50	6/29/2010	Intermediate	93	94	ND
GP-T77-008	LL3	501140.05	2621640.00	8/17/2010	Shallow	57	58	ND
GP-T77-008	LL3	501140.05	2621640.00	8/17/2010	Shallow	57	58	ND
GP-T77-008	LL3	501140.05	2621640.00	8/17/2010	Shallow	67	68	ND
GP-T77-008	LL3	501140.05	2621640.00	8/17/2010	Shallow	67	68	ND
GP-T77-008	LL3	501140.05	2621640.00	8/17/2010	Intermediate	77	78	ND
GP-T77-008	LL3	501140.05	2621640.00	8/17/2010	Intermediate	77	78	ND
GP-T77-008	LL3	501140.05	2621640.00	8/17/2010	Intermediate	87	88	ND
GP-T77-008	LL3	501140.05	2621640.00	8/17/2010	Intermediate	87	88	ND
GP-T77-008	LL3	501140.05	2621640.00	8/17/2010	Intermediate	97	98	ND
GP-T77-008	LL3	501140.05	2621640.00	8/17/2010	Intermediate	97	98	ND
GP-T78-003	LL3	500318.83	2624202.25	7/30/2010	Shallow	56	57	ND
GP-T78-003	LL3	500318.83	2624202.25	7/30/2010	Shallow	66	67	ND
GP-T78-003	LL3	500318.83	2624202.25	7/30/2010	Intermediate	76	77	ND
GP-T78-003	LL3	500318.83	2624202.25	7/30/2010	Intermediate	86	87	ND
GP-T78-003	LL3	500318.83	2624202.25	7/30/2010	Intermediate	96	97	ND
GP-T78-004	LL3	500780.90	2624185.49	6/4/2010	Shallow	55	56	0.86 J
GP-T78-004	LL3	500780.90	2624185.49	6/4/2010	Shallow	65	66	4.1
GP-T78-004	LL3	500780.90	2624185.49	6/4/2010	Intermediate	75	76	5.9

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GP-T78-004	LL3	500780.90	2624185.49	6/4/2010	Intermediate	85	86	5.4
GP-T78-004	LL3	500780.90	2624185.49	6/3/2010	Intermediate	95	96	3
GP-T78-005	LL3	501267.04	2624164.11	6/3/2010	Shallow	57	58	0.46 J
GP-T78-005	LL3	501267.04	2624164.11	6/3/2010	Shallow	67	68	1.1 J
GP-T78-005	LL3	501267.04	2624164.11	6/3/2010	Intermediate	77	78	0.45 J
GP-T78-005	LL3	501267.04	2624164.11	6/3/2010	Intermediate	87	88	1.1 J
GP-T78-005	LL3	501267.04	2624164.11	6/3/2010	Intermediate	97	98	2
GP-T85AC-001	LL3	501488.10	2623132.53	8/18/2010	Shallow	57	58	ND
GP-T85AC-001	LL3	501488.10	2623132.53	8/18/2010	Shallow	57	58	ND
GP-T85AC-001	LL3	501488.10	2623132.53	8/18/2010	Shallow	67	68	ND
GP-T85AC-001	LL3	501488.10	2623132.53	8/18/2010	Shallow	67	68	ND
GP-T85AC-001	LL3	501488.10	2623132.53	8/18/2010	Intermediate	77	78	ND
GP-T85AC-001	LL3	501488.10	2623132.53	8/18/2010	Intermediate	77	78	ND
GP-T85AC-001	LL3	501488.10	2623132.53	8/18/2010	Intermediate	87	88	ND
GP-T85AC-001	LL3	501488.10	2623132.53	8/18/2010	Intermediate	87	88	ND
GP-T85AC-001	LL3	501488.10	2623132.53	8/18/2010	Intermediate	97	98	ND
GP-T85AC-001	LL3	501488.10	2623132.53	8/18/2010	Intermediate	97	98	ND
GP-T85AC-002	LL3	501746.03	2623522.67	8/18/2010	Shallow	59	60	0.34 J
GP-T85AC-002	LL3	501746.03	2623522.67	8/18/2010	Shallow	59	60	0.34 J
GP-T85AC-002	LL3	501746.03	2623522.67	8/18/2010	Shallow	69	70	2.8
GP-T85AC-002	LL3	501746.03	2623522.67	8/18/2010	Shallow	69	70	2.8
GP-T85AC-002	LL3	501746.03	2623522.67	8/18/2010	Intermediate	79	80	16
GP-T85AC-002	LL3	501746.03	2623522.67	8/18/2010	Intermediate	79	80	16
GP-T85AC-002	LL3	501746.03	2623522.67	8/18/2010	Intermediate	89	90	0.75 J
GP-T85AC-002	LL3	501746.03	2623522.67	8/18/2010	Intermediate	89	90	0.75 J
GP-T85AC-002	LL3	501746.03	2623522.67	8/18/2010	Intermediate	99	100	0.67 J
GP-T85AC-002	LL3	501746.03	2623522.67	8/18/2010	Intermediate	99	100	0.67 J
GP-T85AC-003	LL3	502024.05	2623824.88	8/19/2010	Shallow	53	54	ND
GP-T85AC-003	LL3	502024.05	2623824.88	8/19/2010	Shallow	63	64	ND
GP-T85AC-003	LL3	502024.05	2623824.88	8/19/2010	Shallow	73	74	ND
GP-T85AC-003	LL3	502024.05	2623824.88	8/19/2010	Intermediate	83	84	ND
GP-T85AC-003	LL3	502024.05	2623824.88	8/19/2010	Intermediate	93	94	ND
GP-T85AC-003	LL3	502024.05	2623824.88	8/19/2010	Intermediate	103	104	ND
GP-T85AC-004	LL3	502263.82	2624103.12	8/19/2010	Shallow	47	48	ND
GP-T85AC-004	LL3	502263.82	2624103.12	8/19/2010	Shallow	57	58	ND
GP-T85AC-004	LL3	502263.82	2624103.12	8/19/2010	Shallow	67	68	ND
GP-T85AC-004	LL3	502263.82	2624103.12	8/19/2010	Intermediate	77	78	ND
GP-T85AC-004	LL3	502263.82	2624103.12	8/19/2010	Intermediate	87	88	ND
GP-T85AC-004	LL3	502263.82	2624103.12	8/19/2010	Intermediate	97	98	ND
MW-06A	LL3	506522.12	2617375.69	5/4/2010	Intermediate	61	100	ND
MW-06B	LL3	506525.48	2617384.60	5/4/2010	Shallow	34.8	64	ND
MW-100A	LL3	493770.41	2629718.84	3/1/2012	Intermediate	83	93	ND
MW-100B	LL3	493777.18	2629718.06	3/1/2012	Shallow	65	75	ND
MW-100B	LL3	493777.18	2629718.06	3/1/2012	Shallow	65	75	ND
MW-100D	LL3	493783.73	2629718.36	3/1/2012	Intermediate	99.9	104.9	ND
MW-117A	LL3	495048.00	2631041.42	3/6/2012	Intermediate	66	76	ND
MW-117B	LL3	495053.97	2631040.50	3/6/2012	Shallow	43	53	ND
MW-117D	LL3	495042.19	2631042.34	3/6/2012	Intermediate	81.5	86.5	ND
MW-143B	LL3	502719.77	2621339.98	6/8/2012	Shallow	52	62	ND
MW-148B	LL3	504425.78	2620179.92	6/8/2012	Shallow	65	75	ND

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
MW-148B	LL3	504425.78	2620179.92	6/8/2012	Shallow	65	75	ND
MW-149A	LL3	502086.76	2622398.38	6/8/2012	Intermediate	80	90	0.18 J
MW-150A	LL3	499856.55	2624201.15	6/5/2012	Intermediate	80	90	ND
MW-150B	LL3	499864.11	2624200.78	6/5/2012	Shallow	65	75	ND
MW-175A	LL3	501101.54	2622690.12	12/06/2012	Intermediate	80.08	90.08	ND
MW-175B	LL3	501098.07	2622680.35	12/06/2012	Shallow	65.7	75.7	ND
MW-33A	LL3	502847.90	2622410.84	8/15/2008	Intermediate	100.5	110.5	0.54 J
MW-33B	LL3	502854.78	2622401.05	8/15/2008	Shallow	73.5	83.5	1.1 J
MW-34A	LL3	498806.30	2624442.78	3/29/2006	Intermediate	102	112	ND
MW-34B	LL3	498814.11	2624443.06	3/29/2006	Shallow	65	75	ND
MW-35A	LL3	496323.63	2629595.75	3/5/2012	Intermediate	81.5	91.5	ND
MW-35B	LL3	496329.36	2629595.84	3/5/2012	Shallow	57	67	ND
MW-35B	LL3	496329.36	2629595.84	3/5/2012	Shallow	57	67	ND
MW-35D	LL3	496317.09	2629595.79	3/5/2012	Intermediate	100.5	105.5	ND
MW-85A	LL3	494439.02	2628326.52	3/1/2012	Intermediate	81	86	ND
MW-85B	LL3	494449.81	2628315.15	3/1/2012	Shallow	62	67	ND
MW-85D	LL3	494428.02	2628338.54	3/1/2012	Intermediate	90	95	ND
MW-86A	LL3	493759.73	2631939.20	3/5/2012	Intermediate	52.5	62.5	ND
MW-86B	LL3	493758.65	2631933.60	3/5/2012	Shallow	43	53	ND
MW-86B	LL3	493758.65	2631933.60	3/5/2012	Shallow	43	53	ND
MW-86D	LL3	493760.42	2631944.47	3/5/2012	Intermediate	68.98	74.5	ND
MW-98A	LL3	493604.93	2626495.29	3/1/2012	Intermediate	82	92	ND
MW-98A	LL3	493604.93	2626495.29	3/1/2012	Intermediate	82	92	ND
MW-98B	LL3	493605.27	2626488.70	3/1/2012	Shallow	64	69	ND
MW-98D	LL3	493605.20	2626502.35	3/1/2012	Intermediate	97	102	ND
MW-99B	LL3	498787.92	2627118.40	6/7/2012	Shallow	75	85	ND
MW-118A	LL3	496207.69	2625890.44	3/6/2012	Intermediate	84.75	95.25	ND
MW-118B	LL3	496207.84	2625884.53	3/6/2012	Shallow	70	75	ND
GP-MW-157	LL4	499117.56	2632549.30	8/5/2010	Shallow	26	27	3.2
GP-MW-157	LL4	499117.56	2632549.30	8/5/2010	Shallow	36	37	5.2
GP-MW-157	LL4	499117.56	2632549.30	8/5/2010	Intermediate	46	47	22
GP-MW-157	LL4	499117.56	2632549.30	8/5/2010	Intermediate	46	47	24
GP-MW-157	LL4	499117.56	2632549.30	8/5/2010	Intermediate	56	57	93
GP-T01-17	LL4	496431.66	2632680.74	3/15/2006	Shallow	24	25	ND
GP-T01-17	LL4	496431.66	2632680.74	3/15/2006	Shallow	34	35	ND
GP-T01-17	LL4	496431.66	2632680.74	3/15/2006	Intermediate	44	45	ND
GP-T01-18	LL4	496201.53	2632724.99	3/15/2006	Shallow	24	25	ND
GP-T01-18	LL4	496201.53	2632724.99	3/15/2006	Intermediate	34	35	ND
GP-T01-18	LL4	496201.53	2632724.99	3/15/2006	Intermediate	42	43	ND
GP-T01-19	LL4	496215.55	2632978.91	3/15/2006	Shallow	19	20	ND
GP-T01-19	LL4	496215.55	2632978.91	3/15/2006	Intermediate	27	28	ND
GP-T01-19	LL4	496215.55	2632978.91	3/15/2006	Intermediate	37	38	ND
GP-T02-06	LL4	501941.94	2629369.60	4/7/2006	Intermediate	64	65	5.7
GP-T02-06	LL4	501941.94	2629369.60	4/7/2006	Shallow	64	65	1
GP-T02-06	LL4	501941.94	2629369.60	4/7/2006	Intermediate	83	84	4
GP-T02-06	LL4	501941.94	2629369.60	4/7/2006	Intermediate	102	103	26
GP-T02-07	LL4	502468.62	2629364.00	4/7/2006	Shallow	59	60	17
GP-T02-07	LL4	502468.62	2629364.00	4/7/2006	Intermediate	79	80	110
GP-T02-07	LL4	502468.62	2629364.00	4/7/2006	Intermediate	99	100	118
GP-T02-08	LL4	502902.68	2629339.51	4/7/2006	Shallow	59	60	68

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T02-08	LL4	502902.68	2629339.51	4/7/2006	Intermediate	79	80	980 D
GP-T02-08	LL4	502902.68	2629339.51	4/7/2006	Intermediate	79	80	305
GP-T02-08	LL4	502902.68	2629339.51	4/7/2006	Intermediate	97	98	252
GP-T02-09	LL4	503325.07	2629316.81	4/7/2006	Shallow	59	60	29
GP-T02-09	LL4	503325.07	2629316.81	4/7/2006	Intermediate	79	80	55
GP-T02-09	LL4	503325.07	2629316.81	4/7/2006	Intermediate	96	97	49
GP-T13-10	LL4	501518.82	2632669.14	4/9/2006	Shallow	36	37	27
GP-T13-10	LL4	501518.82	2632669.14	4/9/2006	Intermediate	49	50	31
GP-T13-10	LL4	501518.82	2632669.14	4/9/2006	Intermediate	61	62	30
GP-T13-11	LL4	501983.37	2632896.92	4/9/2006	Shallow	39	40	3
GP-T13-11	LL4	501983.37	2632896.92	4/9/2006	Intermediate	51	52	7
GP-T13-11	LL4	501983.37	2632896.92	4/9/2006	Intermediate	64	65	4
GP-T13-12	LL4	502540.34	2633148.93	4/9/2006	Shallow	23	24	ND
GP-T13-12	LL4	502540.34	2633148.93	4/9/2006	Intermediate	40	41	3
GP-T13-12	LL4	502540.34	2633148.93	4/9/2006	Intermediate	56	57	6
GP-T16-11	LL4	505770.20	2629677.71	4/7/2006	Shallow	55	56	13
GP-T16-11	LL4	505770.20	2629677.71	4/7/2006	Shallow	55	56	28
GP-T16-12	LL4	506202.03	2629950.19	4/13/2006	Shallow	59	60	ND
GP-T16-12	LL4	506202.03	2629950.19	4/13/2006	Intermediate	79	80	ND
GP-T16-12	LL4	506202.03	2629950.19	4/13/2006	Intermediate	99	100	ND
GP-T16-13	LL4	506691.28	2630554.47	4/7/2006	Shallow	44	45	ND
GP-T16-13	LL4	506691.28	2630554.47	4/7/2006	Intermediate	60	61	ND
GP-T16-13	LL4	506691.28	2630554.47	4/7/2006	Intermediate	77	78	ND
GP-T17-01	LL4	512412.49	2618955.26	3/27/2006	Shallow	59	60	ND
GP-T17-01	LL4	512412.49	2618955.26	3/27/2006	Shallow	68	69	ND
GP-T17-01	LL4	512412.49	2618955.26	3/27/2006	Intermediate	82	83	ND
GP-T17-02	LL4	512715.15	2619391.57	3/28/2006	Shallow	54	55	ND
GP-T17-02	LL4	512715.15	2619391.57	3/28/2006	Intermediate	67	68	ND
GP-T17-02	LL4	512715.15	2619391.57	3/28/2006	Intermediate	80	81	ND
GP-T17-03	LL4	513014.44	2619803.83	3/28/2006	Shallow	49	50	ND
GP-T17-03	LL4	513014.44	2619803.83	3/28/2006	Intermediate	68	69	ND
GP-T17-03	LL4	513014.44	2619803.83	3/28/2006	Intermediate	87	88	ND
GP-T17-04	LL4	513293.37	2620179.87	3/28/2006	Shallow	49	50	ND
GP-T17-04	LL4	513293.37	2620179.87	3/28/2006	Intermediate	69	70	ND
GP-T17-04	LL4	513293.37	2620179.87	3/28/2006	Intermediate	88	89	ND
GP-T17-05	LL4	513603.47	2620595.17	3/28/2006	Shallow	54	55	1
GP-T17-05	LL4	513603.47	2620595.17	3/28/2006	Intermediate	63	64	6
GP-T17-05	LL4	513603.47	2620595.17	3/28/2006	Intermediate	72	73	7
GP-T17-06	LL4	513740.28	2620784.70	3/29/2006	Shallow	54	55	4
GP-T17-06	LL4	513740.28	2620784.70	3/29/2006	Intermediate	61	62	2
GP-T17-06	LL4	513740.28	2620784.70	3/29/2006	Intermediate	68	69	ND
GP-T17-07	LL4	513870.17	2620963.95	3/29/2006	Shallow	51	52	16
GP-T17-07	LL4	513870.17	2620963.95	3/29/2006	Intermediate	59	60	244
GP-T17-07	LL4	513870.17	2620963.95	3/29/2006	Intermediate	67	68	216
GP-T17-08	LL4	514035.36	2621183.47	3/29/2006	Shallow	51	52	138
GP-T17-08	LL4	514035.36	2621183.47	3/29/2006	Intermediate	63	64	329
GP-T17-08	LL4	514035.36	2621183.47	3/29/2006	Intermediate	75	76	133
GP-T17-08	LL4	514035.36	2621183.47	3/29/2006	Intermediate	75	76	140
GP-T17-09	LL4	514176.21	2621363.25	3/29/2006	Shallow	49	50	430
GP-T17-09	LL4	514176.21	2621363.25	3/29/2006	Intermediate	61	62	800

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GP-T17-09	LL4	514176.21	2621363.25	3/29/2006	Intermediate	72	73	1400 D
GP-T17-09	LL4	514176.21	2621363.25	3/29/2006	Intermediate	72	73	900 J
GP-T17-10	LL4	514334.72	2621567.90	3/29/2006	Shallow	49	50	310
GP-T17-10	LL4	514334.72	2621567.90	3/29/2006	Intermediate	62	63	770
GP-T17-10	LL4	514334.72	2621567.90	3/29/2006	Intermediate	76	77	216
GP-T17-11	LL4	514642.17	2621937.35	3/31/2006	Shallow	48	49	30
GP-T17-11	LL4	514642.17	2621937.35	3/31/2006	Intermediate	63	64	17
GP-T17-11	LL4	514642.17	2621937.35	3/31/2006	Intermediate	78	79	ND
GP-T17-12	LL4	514869.18	2622315.99	3/31/2006	Shallow	46	47	ND
GP-T17-12	LL4	514869.18	2622315.99	3/31/2006	Intermediate	59	60	ND
GP-T17-12	LL4	514869.18	2622315.99	3/31/2006	Intermediate	72	73	ND
GP-T17-13	LL4	515121.54	2622675.31	3/31/2006	Shallow	44	45	ND
GP-T17-13	LL4	515121.54	2622675.31	3/31/2006	Intermediate	59	60	ND
GP-T17-13	LL4	515121.54	2622675.31	3/31/2006	Intermediate	74	75	ND
GP-T18-01	LL4	509406.84	2621318.76	3/27/2006	Shallow	59	60	ND
GP-T18-01	LL4	509406.84	2621318.76	3/27/2006	Intermediate	85	86	ND
GP-T18-01	LL4	509406.84	2621318.76	3/27/2006	Intermediate	112	113	ND
GP-T18-02	LL4	509659.12	2621936.77	3/27/2006	Shallow	59	60	ND
GP-T18-02	LL4	509659.12	2621936.77	3/27/2006	Intermediate	85	86	0.28 J
GP-T18-02	LL4	509659.12	2621936.77	3/27/2006	Intermediate	85	86	ND
GP-T18-02	LL4	509659.12	2621936.77	3/27/2006	Intermediate	111	112	ND
GP-T18-03	LL4	510041.28	2622104.68	3/27/2006	Shallow	59	60	39
GP-T18-03	LL4	510041.28	2622104.68	3/27/2006	Intermediate	84	85	150 D
GP-T18-03	LL4	510041.28	2622104.68	3/27/2006	Intermediate	84	85	93
GP-T18-03	LL4	510041.28	2622104.68	3/27/2006	Intermediate	110	111	6
GP-T18-04	LL4	510350.90	2622591.09	3/28/2006	Shallow	59	60	16
GP-T18-04	LL4	510350.90	2622591.09	3/28/2006	Intermediate	84	85	260 D
GP-T18-04	LL4	510350.90	2622591.09	3/28/2006	Intermediate	84	85	300 D
GP-T18-04	LL4	510350.90	2622591.09	3/28/2006	Intermediate	84	85	246
GP-T18-04	LL4	510350.90	2622591.09	3/28/2006	Intermediate	109	110	52
GP-T18-05	LL4	510659.76	2622933.36	3/28/2006	Shallow	59	60	10000 D
GP-T18-05	LL4	510659.76	2622933.36	3/28/2006	Shallow	59	60	1500 J
GP-T18-05	LL4	510659.76	2622933.36	3/28/2006	Intermediate	84	85	1100 J
GP-T18-05	LL4	510659.76	2622933.36	3/28/2006	Intermediate	108	109	820 J
GP-T18-05	LL4	510659.76	2622933.36	3/28/2006	Intermediate	108	109	1300 J
GP-T18-06	LL4	510825.61	2623130.70	3/28/2006	Shallow	59	60	6200 D
GP-T18-06	LL4	510825.61	2623130.70	3/28/2006	Shallow	59	60	1700 J
GP-T18-06	LL4	510825.61	2623130.70	3/28/2006	Intermediate	84	85	58
GP-T18-06	LL4	510825.61	2623130.70	3/28/2006	Intermediate	107	108	52
GP-T18-07	LL4	510995.45	2623320.39	3/28/2006	Shallow	59	60	175
GP-T18-07	LL4	510995.45	2623320.39	3/28/2006	Intermediate	84	85	18
GP-T18-07	LL4	510995.45	2623320.39	3/28/2006	Intermediate	109	110	5
GP-T18-08	LL4	511164.96	2623509.21	3/19/2006	Shallow	54	55	61
GP-T18-08	LL4	511164.96	2623509.21	3/19/2006	Intermediate	79	80	190
GP-T18-08	LL4	511164.96	2623509.21	3/19/2006	Intermediate	79	80	216
GP-T18-08	LL4	511164.96	2623509.21	3/19/2006	Intermediate	105	106	13
GP-T18-09	LL4	511321.38	2623679.59	3/19/2006	Shallow	54	55	67
GP-T18-09	LL4	511321.38	2623679.59	3/19/2006	Shallow	54	55	70
GP-T18-09	LL4	511321.38	2623679.59	3/19/2006	Intermediate	78	79	150 D
GP-T18-09	LL4	511321.38	2623679.59	3/19/2006	Intermediate	78	79	160 D

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T18-09	LL4	511321.38	2623679.59	3/19/2006	Intermediate	78	79	170
GP-T18-09	LL4	511321.38	2623679.59	3/19/2006	Intermediate	102	103	3
GP-T18-10	LL4	511626.92	2624021.32	3/19/2006	Shallow	54	55	7
GP-T18-10	LL4	511626.92	2624021.32	3/19/2006	Intermediate	72	73	ND
GP-T18-10	LL4	511626.92	2624021.32	3/19/2006	Intermediate	91	92	ND
GP-T18-11	LL4	512302.09	2624630.07	3/18/2006	Shallow	49	50	1
GP-T18-11	LL4	512302.09	2624630.07	3/18/2006	Intermediate	66	67	ND
GP-T18-11	LL4	512302.09	2624630.07	3/18/2006	Intermediate	83	84	ND
GP-T18-12	LL4	513015.46	2625275.87	3/17/2006	Shallow	39	40	ND
GP-T18-12	LL4	513015.46	2625275.87	3/17/2006	Intermediate	62	63	ND
GP-T18-12	LL4	513015.46	2625275.87	3/17/2006	Intermediate	85	86	ND
GP-T19-01	LL4	507534.43	2622762.92	3/19/2006	Shallow	64	65	ND
GP-T19-01	LL4	507534.43	2622762.92	3/19/2006	Intermediate	86	87	ND
GP-T19-01	LL4	507534.43	2622762.92	3/19/2006	Intermediate	108	109	ND
GP-T19-02	LL4	507839.28	2623161.28	3/19/2006	Shallow	64	65	ND
GP-T19-02	LL4	507839.28	2623161.28	3/19/2006	Intermediate	87	88	9
GP-T19-02	LL4	507839.28	2623161.28	3/19/2006	Intermediate	111	112	65
GP-T19-02	LL4	507839.28	2623161.28	3/19/2006	Intermediate	111	112	82
GP-T19-03	LL4	508151.69	2623576.43	3/27/2006	Shallow	64	65	200
GP-T19-03	LL4	508151.69	2623576.43	3/27/2006	Intermediate	90	91	630 D
GP-T19-03	LL4	508151.69	2623576.43	3/27/2006	Intermediate	90	91	490
GP-T19-03	LL4	508151.69	2623576.43	3/27/2006	Intermediate	115	116	1
GP-T19-04	LL4	508440.31	2623950.09	3/15/2006	Shallow	59	60	150
GP-T19-04	LL4	508440.31	2623950.09	3/15/2006	Intermediate	75	76	250 D
GP-T19-04	LL4	508440.31	2623950.09	3/15/2006	Intermediate	75	76	151
GP-T19-04	LL4	508440.31	2623950.09	3/15/2006	Intermediate	92	93	107
GP-T19-05	LL4	508771.15	2624374.54	3/15/2006	Shallow	59	60	75
GP-T19-05	LL4	508771.15	2624374.54	3/15/2006	Intermediate	64	65	56
GP-T19-05	LL4	508771.15	2624374.54	3/15/2006	Intermediate	64	65	63
GP-T19-05	LL4	508771.15	2624374.54	3/15/2006	Intermediate	69	70	63
GP-T19-06	LL4	509053.25	2624727.52	3/15/2006	Shallow	59	60	2
GP-T19-06	LL4	509053.25	2624727.52	3/15/2006	Intermediate	64	65	5
GP-T19-06	LL4	509053.25	2624727.52	3/15/2006	Intermediate	69	70	2
GP-T19-06	LL4	509053.25	2624727.52	3/15/2006	Intermediate	69	70	8
GP-T19-07	LL4	509334.73	2625143.02	3/15/2006	Shallow	59	60	ND
GP-T19-07	LL4	509334.73	2625143.02	3/15/2006	Intermediate	64	65	ND
GP-T19-07	LL4	509334.73	2625143.02	3/15/2006	Intermediate	69	70	ND
GP-T19-08	LL4	509630.56	2625458.31	3/18/2006	Shallow	44	45	ND
GP-T19-08	LL4	509630.56	2625458.31	3/18/2006	Intermediate	51	52	ND
GP-T19-08	LL4	509630.56	2625458.31	3/18/2006	Intermediate	57	58	ND
GP-T19-09	LL4	509964.93	2625793.51	3/18/2006	Shallow	41	42	ND
GP-T19-09	LL4	509964.93	2625793.51	3/18/2006	Intermediate	47	48	ND
GP-T19-09	LL4	509964.93	2625793.51	3/18/2006	Intermediate	53	54	ND
GP-T19-10	LL4	510332.85	2626216.61	3/18/2006	Shallow	39	40	ND
GP-T19-10	LL4	510332.85	2626216.61	3/18/2006	Intermediate	45	46	ND
GP-T19-10	LL4	510332.85	2626216.61	3/18/2006	Intermediate	52	53	ND
GP-T19-11	LL4	510919.84	2627092.46	3/17/2006	Shallow	34	35	ND
GP-T19-11	LL4	510919.84	2627092.46	3/17/2006	Intermediate	57	58	ND
GP-T19-11	LL4	510919.84	2627092.46	3/17/2006	Intermediate	80	81	ND
GP-T20-01	LL4	505463.91	2623130.49	3/29/2006	Shallow	69	70	ND

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T20-01	LL4	505463.91	2623130.49	3/29/2006	Intermediate	90	91	ND
GP-T20-01	LL4	505463.91	2623130.49	3/29/2006	Intermediate	111	112	ND
GP-T20-02	LL4	505819.31	2623536.32	3/29/2006	Shallow	64	65	ND
GP-T20-02	LL4	505819.31	2623536.32	3/29/2006	Intermediate	86	87	ND
GP-T20-02	LL4	505819.31	2623536.32	3/29/2006	Intermediate	107	108	ND
GP-T20-03	LL4	506156.46	2623909.92	3/29/2006	Shallow	54	55	ND
GP-T20-03	LL4	506156.46	2623909.92	3/29/2006	Intermediate	77	78	1
GP-T20-03	LL4	506156.46	2623909.92	3/29/2006	Intermediate	99	100	3
GP-T20-04	LL4	506626.63	2624237.72	3/31/2006	Shallow	64	65	243
GP-T20-04	LL4	506626.63	2624237.72	3/31/2006	Intermediate	87	88	2600 D
GP-T20-04	LL4	506626.63	2624237.72	3/31/2006	Intermediate	87	88	1450
GP-T20-04	LL4	506626.63	2624237.72	3/31/2006	Intermediate	87	88	1470
GP-T20-04	LL4	506626.63	2624237.72	3/31/2006	Intermediate	110	111	1400
GP-T20-05	LL4	506791.18	2624645.79	3/16/2006	Shallow	54	55	3
GP-T20-05	LL4	506791.18	2624645.79	3/16/2006	Intermediate	76	77	310 D
GP-T20-05	LL4	506791.18	2624645.79	3/16/2006	Intermediate	76	77	195
GP-T20-05	LL4	506791.18	2624645.79	3/16/2006	Intermediate	98	99	77
GP-T20-06	LL4	507062.70	2625085.72	3/16/2006	Shallow	58	59	9
GP-T20-06	LL4	507062.70	2625085.72	3/16/2006	Shallow	64	65	47
GP-T20-06	LL4	507062.70	2625085.72	3/16/2006	Intermediate	73	74	190 D
GP-T20-06	LL4	507062.70	2625085.72	3/16/2006	Intermediate	73	74	137
GP-T20-07	LL4	507317.68	2625465.24	3/16/2006	Shallow	59	60	5
GP-T20-07	LL4	507317.68	2625465.24	3/16/2006	Shallow	59	60	7
GP-T20-07	LL4	507317.68	2625465.24	3/16/2006	Intermediate	64	65	59
GP-T20-07	LL4	507317.68	2625465.24	3/16/2006	Intermediate	69	70	98
GP-T20-08	LL4	507579.81	2625859.10	3/16/2006	Shallow	59	60	2
GP-T20-08	LL4	507579.81	2625859.10	3/16/2006	Intermediate	66	67	3
GP-T20-08	LL4	507579.81	2625859.10	3/16/2006	Intermediate	73	74	24
GP-T20-09	LL4	507906.86	2626355.84	3/18/2006	Shallow	59	60	ND
GP-T20-09	LL4	507906.86	2626355.84	3/18/2006	Intermediate	67	68	ND
GP-T20-09	LL4	507906.86	2626355.84	3/18/2006	Intermediate	75	76	ND
GP-T20-10	LL4	508238.88	2626762.96	3/18/2006	Shallow	54	55	ND
GP-T20-10	LL4	508238.88	2626762.96	3/18/2006	Intermediate	62	63	ND
GP-T20-10	LL4	508238.88	2626762.96	3/18/2006	Intermediate	69	70	ND
GP-T20-11	LL4	508559.67	2627149.05	3/18/2006	Shallow	54	55	ND
GP-T20-11	LL4	508559.67	2627149.05	3/18/2006	Intermediate	72	73	4
GP-T20-11	LL4	508559.67	2627149.05	3/18/2006	Intermediate	90	91	19
GP-T20-13	LL4	509096.70	2628017.96	3/17/2006	Shallow	34	35	ND
GP-T20-13	LL4	509096.70	2628017.96	3/17/2006	Intermediate	50	51	ND
GP-T20-13	LL4	509096.70	2628017.96	3/17/2006	Intermediate	65	66	ND
GP-T20-14	LL4	509356.13	2628408.81	3/17/2006	Shallow	38	39	ND
GP-T20-14	LL4	509356.13	2628408.81	3/17/2006	Intermediate	52	53	ND
GP-T20-14	LL4	509356.13	2628408.81	3/17/2006	Intermediate	71	72	ND
GP-T21-01	LL4	505245.83	2630721.19	4/13/2006	Shallow	64	65	ND
GP-T21-01	LL4	505245.83	2630721.19	4/13/2006	Intermediate	80	81	ND
GP-T21-01	LL4	505245.83	2630721.19	4/13/2006	Intermediate	96	97	ND
GP-T21-02	LL4	505824.13	2631110.35	4/7/2006	Shallow	54	55	5
GP-T21-02	LL4	505824.13	2631110.35	4/7/2006	Intermediate	75	76	1
GP-T21-02	LL4	505824.13	2631110.35	4/7/2006	Intermediate	96	97	ND
GP-T21-03	LL4	506054.56	2631437.37	4/8/2006	Shallow	54	55	ND

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T21-03	LL4	506054.56	2631437.37	4/8/2006	Intermediate	74	75	ND
GP-T21-03	LL4	506054.56	2631437.37	4/7/2006	Intermediate	94	95	ND
GP-T21-04	LL4	506273.77	2631674.44	4/13/2006	Shallow	64	65	ND
GP-T21-04	LL4	506273.77	2631674.44	4/13/2006	Intermediate	79	80	ND
GP-T21-04	LL4	506273.77	2631674.44	4/13/2006	Intermediate	95	96	ND
GP-T22-01	LL4	504375.77	2631531.82	4/8/2006	Shallow	55	56	13
GP-T22-01	LL4	504375.77	2631531.82	4/8/2006	Shallow	55	56	27
GP-T22-01	LL4	504375.77	2631531.82	4/8/2006	Intermediate	75	76	5
GP-T22-01	LL4	504375.77	2631531.82	4/8/2006	Intermediate	95	96	2
GP-T22-02	LL4	504870.51	2631979.58	4/8/2006	Shallow	55	56	ND
GP-T22-02	LL4	504870.51	2631979.58	4/8/2006	Intermediate	75	76	ND
GP-T22-02	LL4	504870.51	2631979.58	4/8/2006	Intermediate	95	96	ND
GP-T22-03	LL4	505446.21	2631945.48	4/8/2006	Shallow	57	58	6
GP-T22-03	LL4	505446.21	2631945.48	4/8/2006	Intermediate	64	65	4
GP-T22-03	LL4	505446.21	2631945.48	4/8/2006	Intermediate	72	73	ND
GP-T22-04	LL4	505672.31	2632383.92	4/11/2006	Shallow	54	55	ND
GP-T22-04	LL4	505672.31	2632383.92	4/11/2006	Intermediate	74	75	ND
GP-T22-04	LL4	505672.31	2632383.92	4/11/2006	Intermediate	93	94	ND
GP-T23-01	LL4	503142.89	2633127.11	4/9/2006	Shallow	32	33	14
GP-T23-01	LL4	503142.89	2633127.11	4/9/2006	Shallow	32	33	16
GP-T23-01	LL4	503142.89	2633127.11	4/9/2006	Intermediate	49	50	20
GP-T23-01	LL4	503142.89	2633127.11	4/9/2006	Intermediate	67	68	19
GP-T23-02	LL4	503711.37	2633201.39	4/9/2006	Shallow	31	32	12
GP-T23-02	LL4	503711.37	2633201.39	4/9/2006	Intermediate	46	47	2
GP-T23-02	LL4	503711.37	2633201.39	4/9/2006	Intermediate	61	62	ND
GP-T23-03	LL4	504359.25	2633324.90	4/9/2006	Shallow	23	24	ND
GP-T23-03	LL4	504359.25	2633324.90	4/9/2006	Intermediate	41	42	ND
GP-T23-03	LL4	504359.25	2633324.90	4/9/2006	Intermediate	59	60	ND
GP-T23-04	LL4	504676.61	2633152.00	4/9/2006	Shallow	43	44	ND
GP-T23-04	LL4	504676.61	2633152.00	4/9/2006	Intermediate	61	62	ND
GP-T23-04	LL4	504676.61	2633152.00	4/9/2006	Intermediate	79	80	ND
GP-T24-01	LL4	504124.16	2635695.15	4/11/2006	Shallow	23	24	ND
GP-T24-01	LL4	504124.16	2635695.15	4/11/2006	Intermediate	33	34	ND
GP-T24-01	LL4	504124.16	2635695.15	4/11/2006	Intermediate	44	45	ND
GP-T24-02	LL4	504502.99	2635954.01	4/8/2006	Shallow	23	24	ND
GP-T24-02	LL4	504502.99	2635954.01	4/8/2006	Intermediate	35	36	ND
GP-T24-02	LL4	504502.99	2635954.01	4/8/2006	Intermediate	46	47	ND
GP-T25-01	LL4	501884.99	2635697.45	4/8/2006	Shallow	23	24	13
GP-T25-01	LL4	501884.99	2635697.45	4/8/2006	Intermediate	39	40	4
GP-T25-01	LL4	501884.99	2635697.45	4/8/2006	Intermediate	53	54	7
GP-T25-02	LL4	502542.11	2636032.57	4/8/2006	Shallow	23	24	ND
GP-T25-02	LL4	502542.11	2636032.57	4/8/2006	Intermediate	35	36	ND
GP-T25-02	LL4	502542.11	2636032.57	4/8/2006	Intermediate	47	48	ND
GP-T25-03	LL4	502908.74	2636333.74	4/11/2006	Shallow	23	24	ND
GP-T25-03	LL4	502908.74	2636333.74	4/11/2006	Intermediate	33	34	ND
GP-T25-03	LL4	502908.74	2636333.74	4/11/2006	Intermediate	44	45	ND
GP-T26-01	LL4	500854.83	2636851.73	4/11/2006	Shallow	23	24	ND
GP-T26-01	LL4	500854.83	2636851.73	4/11/2006	Intermediate	35	36	ND
GP-T26-01	LL4	500854.83	2636851.73	4/11/2006	Intermediate	48	49	ND
GP-T26-02	LL4	500908.70	2637375.89	4/8/2006	Shallow	23	24	ND

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GP-T26-02	LL4	500908.70	2637375.89	4/8/2006	Intermediate	39	40	ND
GP-T26-02	LL4	500908.70	2637375.89	4/8/2006	Intermediate	55	56	ND
GP-T27-01	LL4	498418.20	2636047.90	4/12/2006	Shallow	23	24	4
GP-T27-01	LL4	498418.20	2636047.90	4/12/2006	Shallow	23	24	8
GP-T27-01	LL4	498418.20	2636047.90	4/12/2006	Shallow	23	24	9.5
GP-T27-01	LL4	498418.20	2636047.90	4/12/2006	Intermediate	33	34	3
GP-T27-01	LL4	498418.20	2636047.90	4/12/2006	Intermediate	42	43	3
GP-T27-01	LL4	498418.20	2636047.90	4/12/2006	Intermediate	42	43	4
GP-T27-02	LL4	498454.00	2636546.24	4/10/2006	Shallow	19	20	2
GP-T27-02	LL4	498454.00	2636546.24	4/10/2006	Intermediate	32	33	7
GP-T27-02	LL4	498454.00	2636546.24	4/10/2006	Intermediate	32	33	8.5
GP-T27-02	LL4	498454.00	2636546.24	4/10/2006	Intermediate	32	33	9.1
GP-T27-02	LL4	498454.00	2636546.24	4/10/2006	Intermediate	46	47	2
GP-T27-03	LL4	498491.20	2637038.44	4/12/2006	Shallow	23	24	ND
GP-T27-03	LL4	498491.20	2637038.44	4/12/2006	Intermediate	33	34	ND
GP-T27-03	LL4	498491.20	2637038.44	4/12/2006	Intermediate	42	43	ND
GP-T27-04	LL4	498517.45	2637547.05	4/10/2006	Shallow	19	20	ND
GP-T27-04	LL4	498517.45	2637547.05	4/10/2006	Intermediate	31	32	ND
GP-T27-04	LL4	498517.45	2637547.05	4/10/2006	Intermediate	43	44	ND
GP-T28-01	LL4	496493.97	2635337.39	4/12/2006	Shallow	23	24	28
GP-T28-01	LL4	496493.97	2635337.39	4/12/2006	Intermediate	35	36	21
GP-T28-01	LL4	496493.97	2635337.39	4/12/2006	Intermediate	47	48	12
GP-T28-02	LL4	496520.76	2635802.17	4/12/2006	Shallow	23	24	4
GP-T28-02	LL4	496520.76	2635802.17	4/12/2006	Intermediate	44	45	10
GP-T28-03	LL4	496550.57	2636263.89	4/10/2006	Shallow	19	20	4
GP-T28-03	LL4	496550.57	2636263.89	4/10/2006	Intermediate	30	31	6
GP-T28-03	LL4	496550.57	2636263.89	4/10/2006	Intermediate	41	42	2
GP-T28-04	LL4	496588.85	2636661.94	4/10/2006	Shallow	19	20	ND
GP-T28-04	LL4	496588.85	2636661.94	4/10/2006	Intermediate	30	31	0.38 J
GP-T28-04	LL4	496588.85	2636661.94	4/10/2006	Intermediate	30	31	ND
GP-T28-04	LL4	496588.85	2636661.94	4/10/2006	Intermediate	42	43	ND
GP-T29-01	LL4	495506.60	2633707.79	3/16/2006	Shallow	19	20	ND
GP-T29-01	LL4	495506.60	2633707.79	3/16/2006	Intermediate	27	28	ND
GP-T29-01	LL4	495506.60	2633707.79	3/16/2006	Intermediate	35	36	ND
GP-T29-02	LL4	495499.29	2634211.39	3/16/2006	Shallow	19	20	ND
GP-T29-02	LL4	495499.29	2634211.39	3/16/2006	Intermediate	29	30	ND
GP-T29-02	LL4	495499.29	2634211.39	3/16/2006	Intermediate	39	40	ND
GP-T29-03	LL4	495492.65	2634704.08	3/15/2006	Shallow	19	20	ND
GP-T29-03	LL4	495492.65	2634704.08	3/15/2006	Intermediate	31	32	ND
GP-T29-03	LL4	495492.65	2634704.08	3/15/2006	Intermediate	43	44	ND
GP-T29-04	LL4	495494.66	2635234.19	4/12/2006	Shallow	23	24	12
GP-T29-04	LL4	495494.66	2635234.19	4/12/2006	Intermediate	31	32	17
GP-T29-04	LL4	495494.66	2635234.19	4/12/2006	Intermediate	37	38	8
GP-T29-04	LL4	495494.66	2635234.19	4/12/2006	Intermediate	37	38	16
GP-T29-05	LL4	495523.59	2635611.89	3/17/2006	Shallow	19	20	4
GP-T29-05	LL4	495523.59	2635611.89	3/17/2006	Intermediate	30	31	6
GP-T29-05	LL4	495523.59	2635611.89	3/17/2006	Intermediate	41	42	5
GP-T29-06	LL4	495540.61	2636034.15	3/17/2006	Shallow	19	20	2
GP-T29-06	LL4	495540.61	2636034.15	3/17/2006	Intermediate	31	32	3.4
GP-T29-06	LL4	495540.61	2636034.15	3/17/2006	Intermediate	31	32	4

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GP-T29-06	LL4	495540.61	2636034.15	3/17/2006	Intermediate	42	43	ND
GP-T29-06	LL4	495540.61	2636034.15	3/17/2006	Intermediate	42	43	3
GP-T29-07	LL4	495559.57	2636466.64	3/17/2006	Shallow	19	20	ND
GP-T29-07	LL4	495559.57	2636466.64	3/17/2006	Intermediate	31	32	ND
GP-T29-07	LL4	495559.57	2636466.64	3/17/2006	Intermediate	43	44	ND
GP-T30-01	LL4	494135.82	2634228.37	3/16/2006	Shallow	19	20	ND
GP-T30-01	LL4	494135.82	2634228.37	3/16/2006	Intermediate	27	28	ND
GP-T30-01	LL4	494135.82	2634228.37	3/16/2006	Intermediate	35	36	ND
GP-T30-02	LL4	494124.93	2634667.79	3/16/2006	Shallow	19	20	ND
GP-T30-02	LL4	494124.93	2634667.79	3/16/2006	Intermediate	29	30	ND
GP-T30-02	LL4	494124.93	2634667.79	3/16/2006	Intermediate	41	42	ND
GP-T30-03	LL4	494162.10	2635525.68	3/18/2006	Shallow	19	20	ND
GP-T30-03	LL4	494162.10	2635525.68	3/18/2006	Intermediate	30	31	ND
GP-T30-03	LL4	494162.10	2635525.68	3/18/2006	Intermediate	41	42	ND
GP-T30-04	LL4	494180.38	2635930.20	3/17/2006	Shallow	19	20	ND
GP-T30-04	LL4	494180.38	2635930.20	3/17/2006	Shallow	19	20	2
GP-T30-04	LL4	494180.38	2635930.20	3/17/2006	Intermediate	29	30	ND
GP-T30-04	LL4	494180.38	2635930.20	3/17/2006	Intermediate	40	41	ND
GP-T31-01	LL4	512663.48	2621807.85	5/16/2007	Shallow	68	69	920 D
GP-T31-01	LL4	512663.48	2621807.85	5/16/2007	Intermediate	100	101	320 D
GP-T31-02	LL4	512856.16	2622081.36	5/16/2007	Shallow	69	70	330
GP-T31-02	LL4	512856.16	2622081.36	5/16/2007	Intermediate	101	102	110
GP-T31-03	LL4	513029.23	2622269.06	5/8/2007	Shallow	50	51	580
GP-T31-03	LL4	513029.23	2622269.06	5/8/2007	Shallow	67	68	2800 D
GP-T31-03	LL4	513029.23	2622269.06	5/8/2007	Shallow	67	68	2900 D
GP-T31-03	LL4	513029.23	2622269.06	5/8/2007	Intermediate	83	84	1900 D
GP-T31-03	LL4	513029.23	2622269.06	5/8/2007	Intermediate	99	100	62
GP-T31-03	LL4	513029.23	2622269.06	5/8/2007	Intermediate	115	116	12
GP-T31-04	LL4	513181.65	2622495.98	5/16/2007	Shallow	66	67	59
GP-T31-04	LL4	513181.65	2622495.98	5/16/2007	Intermediate	98	99	4.8
GP-T31-05	LL4	513323.76	2622726.71	5/13/2007	Shallow	66	67	81
GP-T31-05	LL4	513323.76	2622726.71	5/13/2007	Shallow	66	67	99
GP-T31-05	LL4	513323.76	2622726.71	5/13/2007	Intermediate	98	99	ND
GP-T31-06	LL4	512939.75	2622173.71	5/16/2007	Shallow	68	69	4700 D
GP-T31-06	LL4	512939.75	2622173.71	5/16/2007	Intermediate	100	101	2300 D
GP-T31-07	LL4	513114.15	2622398.11	5/16/2007	Shallow	66	67	780
GP-T31-07	LL4	513114.15	2622398.11	5/16/2007	Intermediate	98	99	8
GP-T32-01	LL4	514571.30	2619646.55	5/10/2007	Shallow	71	72	ND
GP-T32-01	LL4	514571.30	2619646.55	5/10/2007	Intermediate	128	129	ND
GP-T32-02	LL4	514839.63	2619966.09	5/10/2007	Shallow	72	73	ND
GP-T32-02	LL4	514839.63	2619966.09	5/10/2007	Intermediate	130	131	ND
GP-T32-03	LL4	515047.38	2620620.74	5/11/2007	Shallow	75	76	100
GP-T32-03	LL4	515047.38	2620620.74	5/11/2007	Shallow	75	76	110
GP-T32-03	LL4	515047.38	2620620.74	5/11/2007	Intermediate	131	132	6.4
GP-T32-04	LL4	515398.45	2620851.37	5/10/2007	Shallow	67	68	0.4 J
GP-T32-04	LL4	515398.45	2620851.37	5/10/2007	Intermediate	116	117	2.8
GP-T32-05	LL4	515635.65	2621219.57	5/10/2007	Shallow	66	67	74
GP-T32-05	LL4	515635.65	2621219.57	5/10/2007	Intermediate	121	122	0.7 J
GP-T32-06	LL4	515034.68	2620217.62	5/10/2007	Shallow	72	73	25
GP-T32-06	LL4	515034.68	2620217.62	5/10/2007	Intermediate	131	132	0.9 J

Table 3-2
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T32-07	LL4	515296.19	2620687.82	5/10/2007	Shallow	70	71	110
GP-T32-07	LL4	515296.19	2620687.82	5/10/2007	Intermediate	130	131	0.7 J
GP-T32-08	LL4	515941.42	2621580.43	5/31/2007	Shallow	58	59	ND
GP-T32-08	LL4	515941.42	2621580.43	5/31/2007	Intermediate	119	120	ND
GP-T33-01	LL4	515207.01	2619202.03	5/11/2007	Shallow	53	54	ND
GP-T33-01	LL4	515207.01	2619202.03	5/11/2007	Intermediate	109	110	ND
GP-T33-02	LL4	515480.72	2619516.45	5/12/2007	Shallow	53	54	12
GP-T33-02	LL4	515480.72	2619516.45	5/12/2007	Intermediate	108	109	ND
GP-T33-03	LL4	515764.20	2619816.62	5/8/2007	Shallow	47	48	1.2
GP-T33-03	LL4	515764.20	2619816.62	5/8/2007	Shallow	64	65	ND
GP-T33-03	LL4	515764.20	2619816.62	5/8/2007	Intermediate	81	82	ND
GP-T33-03	LL4	515764.20	2619816.62	5/8/2007	Intermediate	98	99	ND
GP-T33-03	LL4	515764.20	2619816.62	5/8/2007	Intermediate	115	116	ND
GP-T33-04	LL4	516068.30	2620193.48	5/12/2007	Shallow	43	44	ND
GP-T33-04	LL4	516068.30	2620193.48	5/12/2007	Intermediate	102	103	ND
GP-T33-05	LL4	516325.20	2620503.02	5/13/2007	Shallow	35	36	190 D
GP-T33-05	LL4	516325.20	2620503.02	5/13/2007	Intermediate	96	97	ND
GP-T33-06	LL4	515627.40	2619653.78	5/12/2007	Shallow	51	52	100
GP-T33-06	LL4	515627.40	2619653.78	5/12/2007	Intermediate	109	110	0.2 J
GP-T33-07	LL4	515942.39	2620025.83	5/12/2007	Shallow	44	45	0.9 J
GP-T33-07	LL4	515942.39	2620025.83	5/12/2007	Intermediate	104	105	ND
GP-T33-08	LL4	516424.79	2620692.54	5/31/2007	Shallow	29	30	0.9 J
GP-T33-08	LL4	516424.79	2620692.54	5/31/2007	Intermediate	90	91	ND
GP-T33-09	LL4	516585.10	2620907.48	5/31/2007	Shallow	14	15	ND
GP-T33-09	LL4	516585.10	2620907.48	5/31/2007	Intermediate	77	78	ND
GP-T33-10	LL4	516645.20	2620063.88	5/31/2007	Shallow	27	28	ND
GP-T33-10	LL4	516645.20	2620063.88	5/31/2007	Intermediate	85	86	ND
GP-T33-11	LL4	516935.06	2619763.29	5/31/2007	Shallow	25	26	ND
GP-T33-11	LL4	516935.06	2619763.29	5/31/2007	Intermediate	82	83	ND
GP-T34-01	LL4	516849.89	2618705.82	5/14/2007	Shallow	39	40	ND
GP-T34-01	LL4	516849.89	2618705.82	5/14/2007	Intermediate	93	94	ND
GP-T34-02	LL4	516520.06	2619077.90	5/13/2007	Shallow	41	42	ND
GP-T34-02	LL4	516520.06	2619077.90	5/13/2007	Intermediate	96	97	ND
GP-T34-03	LL4	516110.16	2619452.57	5/13/2007	Shallow	45	46	ND
GP-T34-03	LL4	516110.16	2619452.57	5/13/2007	Intermediate	102	103	ND
GP-T34-04	LL4	515495.28	2620226.79	5/10/2007	Shallow	64	65	ND
GP-T34-04	LL4	515495.28	2620226.79	5/10/2007	Intermediate	124	125	ND
GP-T34-05	LL4	514571.73	2621087.65	5/7/2007	Shallow	54	55	330
GP-T34-05	LL4	514571.73	2621087.65	5/7/2007	Shallow	54	55	350
GP-T34-05	LL4	514571.73	2621087.65	5/7/2007	Shallow	75	76	740
GP-T34-05	LL4	514571.73	2621087.65	5/7/2007	Intermediate	96	97	4.4
GP-T34-05	LL4	514571.73	2621087.65	5/7/2007	Intermediate	117	118	4.7
GP-T34-05	LL4	514571.73	2621087.65	5/7/2007	Intermediate	136	137	28
GP-T34-06	LL4	515901.85	2619063.33	5/31/2007	Shallow	49	50	0.2 J
GP-T34-06	LL4	515901.85	2619063.33	5/31/2007	Intermediate	105	106	ND
GP-T34-07	LL4	516370.59	2618567.33	5/31/2007	Shallow	46	47	ND
GP-T34-07	LL4	516370.59	2618567.33	5/31/2007	Intermediate	84	85	ND
GP-T64-01	LL4	501910.25	2635794.25	12/18/2008	Shallow	13	14	ND
GP-T64-01	LL4	501910.25	2635794.25	12/18/2008	Shallow	23	24	4
GP-T64-01	LL4	501910.25	2635794.25	12/18/2008	Intermediate	33	34	ND

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T64-01	LL4	501910.25	2635794.25	12/18/2008	Intermediate	43	44	ND
GP-T64-02	LL4	502506.50	2636022.76	12/18/2008	Shallow	16	17	ND
GP-T64-02	LL4	502506.50	2636022.76	12/18/2008	Shallow	26	27	ND
GP-T64-02	LL4	502506.50	2636022.76	12/18/2008	Intermediate	36	37	ND
GP-T64-02	LL4	502506.50	2636022.76	12/18/2008	Intermediate	46	47	ND
GP-T64-03	LL4	503094.46	2636328.38	12/18/2008	Shallow	16	17	ND
GP-T64-03	LL4	503094.46	2636328.38	12/18/2008	Shallow	26	27	ND
GP-T64-03	LL4	503094.46	2636328.38	12/18/2008	Intermediate	36	37	ND
GP-T64-03	LL4	503094.46	2636328.38	12/18/2008	Intermediate	46	47	ND
GP-T79-001	LL4	506618.76	2623987.34	5/18/2010	Shallow	57	58	35 J
GP-T79-001	LL4	506618.76	2623987.34	5/18/2010	Shallow	67	68	69
GP-T79-001	LL4	506618.76	2623987.34	5/18/2010	Shallow	77	78	480
GP-T79-001	LL4	506618.76	2623987.34	5/17/2010	Intermediate	87	88	320
GP-T79-001	LL4	506618.76	2623987.34	5/17/2010	Intermediate	97	98	330
GP-T79-001	LL4	506618.76	2623987.34	5/17/2010	Intermediate	107	108	260
GP-T79-002	LL4	506668.08	2624392.64	5/17/2010	Shallow	54	55	52
GP-T79-002	LL4	506668.08	2624392.64	5/17/2010	Shallow	64	65	750
GP-T79-002	LL4	506668.08	2624392.64	5/17/2010	Shallow	74	75	1100
GP-T79-002	LL4	506668.08	2624392.64	5/17/2010	Intermediate	84	85	400
GP-T79-002	LL4	506668.08	2624392.64	5/17/2010	Intermediate	94	95	58
GP-T79-002	LL4	506668.08	2624392.64	5/17/2010	Intermediate	104	105	57
GP-T79-003	LL4	506690.25	2624885.44	5/10/2010	Shallow	52	53	6.4
GP-T79-003	LL4	506690.25	2624885.44	5/10/2010	Shallow	62	63	57
GP-T79-003	LL4	506690.25	2624885.44	5/10/2010	Intermediate	72	73	120
GP-T79-003	LL4	506690.25	2624885.44	5/7/2010	Intermediate	82	83	130
GP-T79-003	LL4	506690.25	2624885.44	5/7/2010	Intermediate	92	93	100
GP-T79-004	LL4	506703.16	2625371.06	5/10/2010	Shallow	53	54	2.7
GP-T79-004	LL4	506703.16	2625371.06	5/10/2010	Intermediate	63	64	34
GP-T79-004	LL4	506703.16	2625371.06	5/10/2010	Intermediate	73	74	120
GP-T79-005	LL4	506731.23	2625899.36	5/14/2010	Shallow	56	57	5.6
GP-T79-005	LL4	506731.23	2625899.36	5/14/2010	Intermediate	66	67	79
GP-T79-006	LL4	506743.81	2626358.81	5/14/2010	Shallow	60	61	ND
GP-T79-006	LL4	506743.81	2626358.81	5/14/2010	Intermediate	70	71	ND
GP-T79-007	LL4	506763.85	2626834.45	5/15/2010	Shallow	52	53	ND
GP-T79-007	LL4	506763.85	2626834.45	5/15/2010	Intermediate	62	63	ND
GP-T79-008	LL4	506789.67	2627308.31	5/3/2010	Shallow	54	55	ND
GP-T79-008	LL4	506789.67	2627308.31	4/30/2010	Intermediate	64	65	ND
GP-T79-008	LL4	506789.67	2627308.31	4/30/2010	Intermediate	74	75	ND
GP-T79-009	LL4	506806.95	2627862.39	4/30/2010	Shallow	49	50	4.1
GP-T79-009	LL4	506806.95	2627862.39	4/30/2010	Shallow	59	60	17 J
GP-T79-009	LL4	506806.95	2627862.39	4/30/2010	Shallow	69	70	64
GP-T79-009	LL4	506806.95	2627862.39	4/30/2010	Intermediate	79	80	0.56 J
GP-T79-009	LL4	506806.95	2627862.39	4/29/2010	Intermediate	91	92	2.5 J
GP-T79-009	LL4	506806.95	2627862.39	4/29/2010	Intermediate	101	102	ND
GP-T79-010	LL4	506826.10	2628389.57	4/30/2010	Shallow	54	55	7.9
GP-T79-010	LL4	506826.10	2628389.57	4/30/2010	Shallow	64	65	30 J
GP-T79-010	LL4	506826.10	2628389.57	4/30/2010	Shallow	64	65	31 J
GP-T79-010	LL4	506826.10	2628389.57	4/29/2010	Intermediate	74	75	ND
GP-T79-010	LL4	506826.10	2628389.57	4/29/2010	Intermediate	84	85	10 J
GP-T79-010	LL4	506826.10	2628389.57	4/29/2010	Intermediate	94	95	ND

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GP-T79-011	LL4	506850.55	2628859.56	5/15/2010	Shallow	53	54	44
GP-T79-011	LL4	506850.55	2628859.56	5/15/2010	Shallow	63	64	74
GP-T79-011	LL4	506850.55	2628859.56	5/15/2010	Shallow	73	74	31
GP-T79-011	LL4	506850.55	2628859.56	5/15/2010	Intermediate	83	84	62 J
GP-T79-011	LL4	506850.55	2628859.56	5/15/2010	Intermediate	83	84	72 J
GP-T79-011	LL4	506850.55	2628859.56	5/15/2010	Intermediate	93	94	ND
GP-T79-011	LL4	506850.55	2628859.56	5/15/2010	Intermediate	103	104	2.2
GP-T79-012	LL4	506530.51	2623381.87	6/28/2010	Shallow	46	47	ND
GP-T79-012	LL4	506530.51	2623381.87	6/28/2010	Shallow	56	57	ND
GP-T79-012	LL4	506530.51	2623381.87	6/28/2010	Shallow	66	67	ND
GP-T79-012	LL4	506530.51	2623381.87	6/28/2010	Intermediate	76	77	ND
GP-T79-012	LL4	506530.51	2623381.87	6/28/2010	Intermediate	86	87	ND
GP-T79-012	LL4	506530.51	2623381.87	6/28/2010	Intermediate	96	97	ND
GP-T79-013	LL4	506529.17	2622802.75	6/29/2010	Shallow	53	54	ND
GP-T79-013	LL4	506529.17	2622802.75	6/28/2010	Shallow	63	64	ND
GP-T79-013	LL4	506529.17	2622802.75	6/28/2010	Shallow	73	74	ND
GP-T79-013	LL4	506529.17	2622802.75	6/28/2010	Intermediate	83	84	ND
GP-T79-013	LL4	506529.17	2622802.75	6/28/2010	Intermediate	93	94	ND
GP-T79-013	LL4	506529.17	2622802.75	6/28/2010	Intermediate	103	104	ND
GP-T79-014	LL4	507692.41	2629154.49	6/24/2010	Shallow	57	58	ND
GP-T79-014	LL4	507692.41	2629154.49	6/24/2010	Intermediate	67	68	0.75 J
GP-T79-014	LL4	507692.41	2629154.49	6/24/2010	Intermediate	67	68	0.76 J
GP-T79-014	LL4	507692.41	2629154.49	6/24/2010	Intermediate	77	78	ND
GP-T80-001	LL4	504073.76	2625275.64	5/18/2010	Shallow	52	53	ND
GP-T80-001	LL4	504073.76	2625275.64	5/18/2010	Shallow	62	63	1.4 J
GP-T80-001	LL4	504073.76	2625275.64	5/18/2010	Intermediate	72	73	2.7 J
GP-T80-001	LL4	504073.76	2625275.64	5/18/2010	Intermediate	82	83	4.8 J
GP-T80-001	LL4	504073.76	2625275.64	5/18/2010	Intermediate	82	83	5.1 J
GP-T80-001	LL4	504073.76	2625275.64	5/18/2010	Intermediate	92	93	10 J
GP-T80-002	LL4	504092.08	2625748.99	5/19/2010	Shallow	44	45	1.5
GP-T80-002	LL4	504092.08	2625748.99	5/19/2010	Shallow	54	55	1.4
GP-T80-002	LL4	504092.08	2625748.99	5/19/2010	Shallow	54	55	3.2
GP-T80-002	LL4	504092.08	2625748.99	5/19/2010	Shallow	64	65	6
GP-T80-002	LL4	504092.08	2625748.99	5/19/2010	Intermediate	74	75	18
GP-T80-002	LL4	504092.08	2625748.99	5/19/2010	Intermediate	84	85	38
GP-T80-002	LL4	504092.08	2625748.99	5/19/2010	Intermediate	94	95	26
GP-T80-003	LL4	504110.83	2626209.32	5/20/2010	Shallow	51	52	1.3
GP-T80-003	LL4	504110.83	2626209.32	5/20/2010	Shallow	61	62	3.6
GP-T80-003	LL4	504110.83	2626209.32	5/19/2010	Intermediate	71	72	66
GP-T80-003	LL4	504110.83	2626209.32	5/19/2010	Intermediate	81	82	120
GP-T80-003	LL4	504110.83	2626209.32	5/19/2010	Intermediate	91	92	90
GP-T80-004	LL4	503909.45	2626689.89	5/24/2010	Shallow	48	49	68
GP-T80-004	LL4	503909.45	2626689.89	5/24/2010	Shallow	58	59	200
GP-T80-004	LL4	503909.45	2626689.89	5/24/2010	Shallow	58	59	230
GP-T80-004	LL4	503909.45	2626689.89	5/24/2010	Intermediate	68	69	350
GP-T80-004	LL4	503909.45	2626689.89	5/24/2010	Intermediate	78	79	320
GP-T80-004	LL4	503909.45	2626689.89	5/24/2010	Intermediate	88	89	260
GP-T80-005	LL4	504146.52	2627183.48	5/25/2010	Shallow	58	59	310
GP-T80-005	LL4	504146.52	2627183.48	5/25/2010	Shallow	68	69	260
GP-T80-005	LL4	504146.52	2627183.48	5/25/2010	Intermediate	78	79	590

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GP-T80-005	LL4	504146.52	2627183.48	5/25/2010	Intermediate	88	89	600
GP-T80-005	LL4	504146.52	2627183.48	5/25/2010	Intermediate	98	99	620
GP-T80-006	LL4	504167.04	2627718.09	5/25/2010	Shallow	57	58	90
GP-T80-006	LL4	504167.04	2627718.09	5/25/2010	Shallow	57	58	97
GP-T80-006	LL4	504167.04	2627718.09	5/25/2010	Shallow	67	68	120
GP-T80-006	LL4	504167.04	2627718.09	5/25/2010	Intermediate	77	78	160
GP-T80-006	LL4	504167.04	2627718.09	5/25/2010	Intermediate	87	88	180
GP-T80-006	LL4	504167.04	2627718.09	5/25/2010	Intermediate	97	98	160
GP-T80-007	LL4	504259.23	2628204.09	5/26/2010	Shallow	47	48	12
GP-T80-007	LL4	504259.23	2628204.09	5/26/2010	Shallow	57	58	31
GP-T80-007	LL4	504259.23	2628204.09	5/26/2010	Shallow	67	68	48
GP-T80-007	LL4	504259.23	2628204.09	5/26/2010	Intermediate	77	78	73
GP-T80-007	LL4	504259.23	2628204.09	5/26/2010	Intermediate	87	88	150
GP-T80-007	LL4	504259.23	2628204.09	5/26/2010	Intermediate	97	98	170
GP-T80-008	LL4	504268.72	2628697.73	5/26/2010	Shallow	53	54	0.47 J
GP-T80-008	LL4	504268.72	2628697.73	5/26/2010	Shallow	63	64	0.69 J
GP-T80-008	LL4	504268.72	2628697.73	5/26/2010	Shallow	73	74	1
GP-T80-008	LL4	504268.72	2628697.73	5/26/2010	Shallow	73	74	1.4
GP-T80-008	LL4	504268.72	2628697.73	5/26/2010	Intermediate	83	84	2.4
GP-T80-008	LL4	504268.72	2628697.73	5/26/2010	Intermediate	93	94	24
GP-T80-008	LL4	504268.72	2628697.73	5/26/2010	Intermediate	103	104	42
GP-T80-009	LL4	504223.70	2629090.59	6/2/2010	Shallow	55	56	3.5
GP-T80-009	LL4	504223.70	2629090.59	6/1/2010	Shallow	65	66	5.2
GP-T80-009	LL4	504223.70	2629090.59	6/1/2010	Intermediate	75	76	11
GP-T80-009	LL4	504223.70	2629090.59	6/1/2010	Intermediate	85	86	15
GP-T80-009	LL4	504223.70	2629090.59	6/1/2010	Intermediate	95	96	4.9
GP-T80-010	LL4	504254.68	2629751.51	6/3/2010	Shallow	50	51	0.88 J
GP-T80-010	LL4	504254.68	2629751.51	6/3/2010	Shallow	60	61	0.38 J
GP-T80-010	LL4	504254.68	2629751.51	6/2/2010	Intermediate	70	71	1.3
GP-T80-010	LL4	504254.68	2629751.51	6/2/2010	Intermediate	80	81	8.5
GP-T80-010	LL4	504254.68	2629751.51	6/2/2010	Intermediate	90	91	2.3
GP-T80-011	LL4	504271.87	2630182.53	6/3/2010	Shallow	51	52	6.5
GP-T80-011	LL4	504271.87	2630182.53	6/3/2010	Shallow	61	62	13
GP-T80-011	LL4	504271.87	2630182.53	6/3/2010	Intermediate	71	72	1.6
GP-T80-011	LL4	504271.87	2630182.53	6/3/2010	Intermediate	81	82	0.82 J
GP-T80-011	LL4	504271.87	2630182.53	6/3/2010	Intermediate	91	92	0.78 J
GP-T80-011	LL4	504271.87	2630182.53	6/3/2010	Intermediate	91	92	1
GP-T80-012	LL4	504290.53	2630714.46	6/14/2010	Shallow	54	55	17
GP-T80-012	LL4	504290.53	2630714.46	6/14/2010	Shallow	54	55	22
GP-T80-012	LL4	504290.53	2630714.46	6/14/2010	Shallow	64	65	29
GP-T80-012	LL4	504290.53	2630714.46	6/14/2010	Intermediate	74	75	2.1
GP-T80-012	LL4	504290.53	2630714.46	6/14/2010	Intermediate	84	85	2.3
GP-T80-012	LL4	504290.53	2630714.46	6/14/2010	Intermediate	94	95	0.51 J
GP-T80-013	LL4	504310.40	2631167.79	6/11/2010	Shallow	54	55	18
GP-T80-013	LL4	504310.40	2631167.79	6/11/2010	Shallow	64	65	25
GP-T80-013	LL4	504310.40	2631167.79	6/11/2010	Intermediate	74	75	40
GP-T80-013	LL4	504310.40	2631167.79	6/11/2010	Intermediate	84	85	16
GP-T80-013	LL4	504310.40	2631167.79	6/11/2010	Intermediate	84	85	18
GP-T80-013	LL4	504310.40	2631167.79	6/11/2010	Intermediate	94	95	14
GP-T80-014	LL4	504330.06	2631636.53	6/14/2010	Shallow	62	63	1.9

Table 3-2
TCE in Monitoring Wells and Direct-Push Samples (2008-2012)
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Former NOP, Mead, Nebraska

Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T80-014	LL4	504330.06	2631636.53	6/14/2010	Shallow	72	73	5.4
GP-T80-014	LL4	504330.06	2631636.53	6/14/2010	Intermediate	82	83	0.84 J
GP-T80-014	LL4	504330.06	2631636.53	6/14/2010	Intermediate	92	93	0.29 J
GP-T80-015	LL4	504352.47	2632215.13	6/15/2010	Shallow	57	58	8.8
GP-T80-015	LL4	504352.47	2632215.13	6/15/2010	Shallow	67	68	17
GP-T80-015	LL4	504352.47	2632215.13	6/15/2010	Intermediate	77	78	23
GP-T80-015	LL4	504352.47	2632215.13	6/15/2010	Intermediate	87	88	13
GP-T80-015	LL4	504352.47	2632215.13	6/15/2010	Intermediate	97	98	4.4
GP-T80-016	LL4	504383.10	2632780.64	6/14/2010	Shallow	58	59	0.97 J
GP-T80-016	LL4	504383.10	2632780.64	6/14/2010	Shallow	68	69	ND
GP-T80-016	LL4	504383.10	2632780.64	6/14/2010	Intermediate	78	79	ND
GP-T80-016	LL4	504383.10	2632780.64	6/14/2010	Intermediate	88	89	0.29 J
GP-T80-016	LL4	504383.10	2632780.64	6/14/2010	Intermediate	88	89	0.32 J
GP-T80-016	LL4	504383.10	2632780.64	6/14/2010	Intermediate	98	99	0.47 J
GP-T80-017	LL4	504399.21	2633310.56	6/14/2010	Shallow	21	22	ND
GP-T80-017	LL4	504399.21	2633310.56	6/14/2010	Shallow	31	32	ND
GP-T80-017	LL4	504399.21	2633310.56	6/14/2010	Intermediate	41	42	ND
GP-T80-017	LL4	504399.21	2633310.56	6/14/2010	Intermediate	51	52	ND
GP-T80-017	LL4	504399.21	2633310.56	6/14/2010	Intermediate	61	62	ND
GP-T80-018	LL4	504049.97	2624785.35	7/2/2010	Shallow	53	54	1.3
GP-T80-018	LL4	504049.97	2624785.35	7/2/2010	Shallow	53	54	1.3
GP-T80-018	LL4	504049.97	2624785.35	7/2/2010	Shallow	63	64	0.32 J
GP-T80-018	LL4	504049.97	2624785.35	7/2/2010	Shallow	63	64	0.32 J
GP-T80-018	LL4	504049.97	2624785.35	7/2/2010	Intermediate	73	74	0.59 J
GP-T80-018	LL4	504049.97	2624785.35	7/2/2010	Intermediate	73	74	0.59 J
GP-T80-018	LL4	504049.97	2624785.35	7/2/2010	Intermediate	83	84	ND
GP-T80-018	LL4	504049.97	2624785.35	7/2/2010	Intermediate	83	84	ND
GP-T80-018	LL4	504049.97	2624785.35	7/2/2010	Intermediate	83	84	ND
GP-T80-018	LL4	504049.97	2624785.35	7/2/2010	Intermediate	83	84	ND
GP-T80-018	LL4	504049.97	2624785.35	7/2/2010	Intermediate	93	94	ND
GP-T80-018	LL4	504049.97	2624785.35	7/2/2010	Intermediate	93	94	ND
GP-T81-001	LL4	501588.72	2628299.95	6/22/2010	Shallow	51	52	0.52 J
GP-T81-001	LL4	501588.72	2628299.95	6/22/2010	Shallow	61	62	2.9
GP-T81-001	LL4	501588.72	2628299.95	6/22/2010	Shallow	71	72	10
GP-T81-001	LL4	501588.72	2628299.95	6/22/2010	Intermediate	81	82	15
GP-T81-001	LL4	501588.72	2628299.95	6/22/2010	Intermediate	91	92	ND
GP-T81-001	LL4	501588.72	2628299.95	6/22/2010	Intermediate	91	92	ND
GP-T81-001	LL4	501588.72	2628299.95	6/22/2010	Intermediate	101	102	ND
GP-T81-002	LL4	501605.58	2628859.69	6/22/2010	Shallow	65	66	2
GP-T81-002	LL4	501605.58	2628859.69	6/22/2010	Shallow	75	76	6.4
GP-T81-002	LL4	501605.58	2628859.69	6/22/2010	Intermediate	85	86	11
GP-T81-002	LL4	501605.58	2628859.69	6/22/2010	Intermediate	95	96	15
GP-T81-003	LL4	501622.44	2629419.44	6/21/2010	Shallow	56	57	2.6
GP-T81-003	LL4	501622.44	2629419.44	6/21/2010	Shallow	66	67	4.8
GP-T81-003	LL4	501622.44	2629419.44	6/21/2010	Intermediate	76	77	15
GP-T81-003	LL4	501622.44	2629419.44	6/21/2010	Intermediate	86	87	46
GP-T81-003	LL4	501622.44	2629419.44	6/21/2010	Intermediate	96	97	82
GP-T81-004	LL4	501639.30	2629979.18	6/17/2010	Shallow	46	47	38
GP-T81-004	LL4	501639.30	2629979.18	6/17/2010	Shallow	56	57	45
GP-T81-004	LL4	501639.30	2629979.18	6/17/2010	Intermediate	66	67	140

Table 3-2
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T81-004	LL4	501639.30	2629979.18	6/17/2010	Intermediate	76	77	420
GP-T81-004	LL4	501639.30	2629979.18	6/17/2010	Intermediate	86	87	450
GP-T81-005	LL4	501656.16	2630538.93	6/17/2010	Shallow	49	50	54
GP-T81-005	LL4	501656.16	2630538.93	6/17/2010	Shallow	59	60	200
GP-T81-005	LL4	501656.16	2630538.93	6/17/2010	Shallow	59	60	220
GP-T81-005	LL4	501656.16	2630538.93	6/17/2010	Intermediate	69	70	380
GP-T81-005	LL4	501656.16	2630538.93	6/17/2010	Intermediate	79	80	820
GP-T81-005	LL4	501656.16	2630538.93	6/17/2010	Intermediate	89	90	870
GP-T81-006	LL4	501673.01	2631098.68	6/18/2010	Shallow	53	54	89
GP-T81-006	LL4	501673.01	2631098.68	6/18/2010	Shallow	63	64	140 J
GP-T81-006	LL4	501673.01	2631098.68	6/18/2010	Intermediate	73	74	210
GP-T81-006	LL4	501673.01	2631098.68	6/18/2010	Intermediate	83	84	270
GP-T81-006	LL4	501673.01	2631098.68	6/18/2010	Intermediate	93	94	71
GP-T81-007	LL4	501689.87	2631658.42	6/18/2010	Shallow	57	58	43
GP-T81-007	LL4	501689.87	2631658.42	6/18/2010	Shallow	67	68	52
GP-T81-007	LL4	501689.87	2631658.42	6/18/2010	Intermediate	77	78	73
GP-T81-007	LL4	501689.87	2631658.42	6/18/2010	Intermediate	87	88	63
GP-T81-010	LL4	501740.45	2633337.66	6/17/2010	Shallow	4	5	ND
GP-T81-010	LL4	501740.45	2633337.66	6/17/2010	Shallow	14	15	ND
GP-T81-010	LL4	501740.45	2633337.66	6/17/2010	Intermediate	24	25	3.7
GP-T81-010	LL4	501740.45	2633337.66	6/16/2010	Intermediate	34	35	5.9
GP-T81-010	LL4	501740.45	2633337.66	6/16/2010	Intermediate	44	45	15
GP-T81-011	LL4	501757.31	2633897.41	6/17/2010	Shallow	5	6	1.6
GP-T81-011	LL4	501757.31	2633897.41	6/17/2010	Shallow	15	16	3.9
GP-T81-011	LL4	501757.31	2633897.41	6/17/2010	Intermediate	25	26	7.9
GP-T81-011	LL4	501757.31	2633897.41	6/17/2010	Intermediate	35	36	7.2
GP-T81-011	LL4	501757.31	2633897.41	6/17/2010	Intermediate	45	46	8.5
GP-T81-012	LL4	501774.17	2634457.15	6/17/2010	Shallow	11	12	28
GP-T81-012	LL4	501774.17	2634457.15	6/17/2010	Shallow	21	22	25
GP-T81-012	LL4	501774.17	2634457.15	6/17/2010	Intermediate	31	32	25 J
GP-T81-012	LL4	501774.17	2634457.15	6/17/2010	Intermediate	31	32	22
GP-T81-012	LL4	501774.17	2634457.15	6/17/2010	Intermediate	41	42	21
GP-T81-013	LL4	501791.03	2635016.90	6/18/2010	Shallow	5	6	0.41 J
GP-T81-013	LL4	501791.03	2635016.90	6/18/2010	Shallow	15	16	3.2
GP-T81-013	LL4	501791.03	2635016.90	6/18/2010	Intermediate	25	26	15
GP-T81-013	LL4	501791.03	2635016.90	6/18/2010	Intermediate	35	36	8 J
GP-T81-013	LL4	501791.03	2635016.90	6/18/2010	Intermediate	35	36	8.2
GP-T81-013	LL4	501791.03	2635016.90	6/18/2010	Intermediate	45	46	8.6
GP-T81-014	LL4	501807.89	2635576.65	6/18/2010	Shallow	13	14	4.3
GP-T81-014	LL4	501807.89	2635576.65	6/18/2010	Shallow	23	24	11
GP-T81-014	LL4	501807.89	2635576.65	6/18/2010	Intermediate	33	34	3.6
GP-T81-014	LL4	501807.89	2635576.65	6/18/2010	Intermediate	43	44	3.6
GP-T81-015	LL4	501820.49	2635994.78	6/18/2010	Shallow	12	13	ND
GP-T81-015	LL4	501820.49	2635994.78	6/18/2010	Shallow	22	23	0.25 J
GP-T81-015	LL4	501820.49	2635994.78	6/18/2010	Intermediate	32	33	ND
GP-T81-015	LL4	501820.49	2635994.78	6/18/2010	Intermediate	42	43	ND
GP-T81-015	LL4	501820.49	2635994.78	6/18/2010	Intermediate	52	53	0.87 J
GP-T81-016	LL4	502293.48	2629451.00	8/4/2010	Shallow	56	57	68
GP-T81-016	LL4	502293.48	2629451.00	8/4/2010	Shallow	56	57	68
GP-T81-016	LL4	502293.48	2629451.00	8/5/2010	Intermediate	66	67	290

Table 3-2
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T81-016	LL4	502293.48	2629451.00	8/5/2010	Intermediate	66	67	290
GP-T81-016	LL4	502293.48	2629451.00	8/4/2010	Intermediate	96	97	200
GP-T81-016	LL4	502293.48	2629451.00	8/4/2010	Intermediate	96	97	200
GP-T81-017	LL4	502668.45	2629439.17	7/30/2010	Shallow	58	59	87
GP-T81-017	LL4	502668.45	2629439.17	7/30/2010	Shallow	58	59	87
GP-T81-017	LL4	502668.45	2629439.17	7/30/2010	Shallow	68	69	330
GP-T81-017	LL4	502668.45	2629439.17	7/30/2010	Shallow	68	69	330
GP-T81-017	LL4	502668.45	2629439.17	7/30/2010	Intermediate	78	79	640
GP-T81-017	LL4	502668.45	2629439.17	7/30/2010	Intermediate	78	79	640
GP-T81-017	LL4	502668.45	2629439.17	7/30/2010	Intermediate	88	89	450
GP-T81-017	LL4	502668.45	2629439.17	7/30/2010	Intermediate	88	89	460
GP-T81-017	LL4	502668.45	2629439.17	7/30/2010	Intermediate	88	89	450
GP-T81-017	LL4	502668.45	2629439.17	7/30/2010	Intermediate	88	89	460
GP-T81-017	LL4	502668.45	2629439.17	7/30/2010	Intermediate	98	99	570
GP-T81-017	LL4	502668.45	2629439.17	7/30/2010	Intermediate	98	99	570
GP-T81-018	LL4	501727.21	2627722.81	8/17/2010	Shallow	64	65	0.45 J
GP-T81-018	LL4	501727.21	2627722.81	8/17/2010	Shallow	64	65	0.45 J
GP-T81-018	LL4	501727.21	2627722.81	8/16/2010	Shallow	74	75	2.5
GP-T81-018	LL4	501727.21	2627722.81	8/16/2010	Shallow	74	75	2.5
GP-T81-018	LL4	501727.21	2627722.81	8/16/2010	Intermediate	84	85	3.2 J
GP-T81-018	LL4	501727.21	2627722.81	8/16/2010	Intermediate	84	85	3.2 J
GP-T81-018	LL4	501727.21	2627722.81	8/16/2010	Intermediate	94	95	5.4
GP-T81-018	LL4	501727.21	2627722.81	8/16/2010	Intermediate	94	95	5.4
GP-T81-018	LL4	501727.21	2627722.81	8/16/2010	Intermediate	104	105	13
GP-T81-018	LL4	501727.21	2627722.81	8/16/2010	Intermediate	104	105	13
GP-T82-003	LL4	498680.48	2632826.05	6/21/2010	Shallow	12	13	ND
GP-T82-003	LL4	498680.48	2632826.05	6/21/2010	Shallow	22	23	ND
GP-T82-003	LL4	498680.48	2632826.05	6/21/2010	Intermediate	32	33	1.4
GP-T82-003	LL4	498680.48	2632826.05	6/21/2010	Intermediate	32	33	1.5
GP-T82-003	LL4	498680.48	2632826.05	6/21/2010	Intermediate	42	43	2.8
GP-T82-004	LL4	499238.98	2632866.97	6/21/2010	Shallow	15	16	45
GP-T82-004	LL4	499238.98	2632866.97	6/21/2010	Shallow	25	26	22
GP-T82-004	LL4	499238.98	2632866.97	6/21/2010	Intermediate	35	36	170
GP-T82-004	LL4	499238.98	2632866.97	6/21/2010	Intermediate	45	46	150
GP-T82-005	LL4	499797.48	2632907.90	6/21/2010	Shallow	21	22	19
GP-T82-005	LL4	499797.48	2632907.90	6/21/2010	Shallow	31	32	96
GP-T82-005	LL4	499797.48	2632907.90	6/21/2010	Intermediate	41	42	220
GP-T82-005	LL4	499797.48	2632907.90	6/21/2010	Intermediate	41	42	230
GP-T82-005	LL4	499797.48	2632907.90	6/21/2010	Intermediate	51	52	600
GP-T82-006	LL4	500355.99	2632948.82	6/22/2010	Shallow	24	25	13
GP-T82-006	LL4	500355.99	2632948.82	6/22/2010	Intermediate	34	35	220
GP-T82-006	LL4	500355.99	2632948.82	6/22/2010	Intermediate	44	45	320
GP-T82-007	LL4	500914.49	2632989.75	6/22/2010	Shallow	28	29	3.7
GP-T82-007	LL4	500914.49	2632989.75	6/22/2010	Intermediate	38	39	6.9
GP-T82-007	LL4	500914.49	2632989.75	6/22/2010	Intermediate	48	49	12
GP-T82-008	LL4	501472.99	2633030.67	6/22/2010	Shallow	23	24	0.67 J
GP-T82-008	LL4	501472.99	2633030.67	6/22/2010	Intermediate	33	34	5.3
GP-T82-008	LL4	501472.99	2633030.67	6/22/2010	Intermediate	43	44	12
GP-T83-001	LL4	499521.82	2632578.53	5/12/2010	Shallow	35	36	3.8 J
GP-T83-001	LL4	499521.82	2632578.53	5/12/2010	Shallow	45	46	11

Table 3-2
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T83-001	LL4	499521.82	2632578.53	5/12/2010	Intermediate	55	56	120
GP-T83-001	LL4	499521.82	2632578.53	5/12/2010	Intermediate	65	66	230
GP-T83-002	LL4	499548.16	2632662.10	5/13/2010	Shallow	20	21	ND
GP-T83-002	LL4	499548.16	2632662.10	5/13/2010	Shallow	30	31	2
GP-T83-002	LL4	499548.16	2632662.10	5/13/2010	Intermediate	40	41	16
GP-T83-002	LL4	499548.16	2632662.10	5/12/2010	Intermediate	50	51	75
GP-T83-002	LL4	499548.16	2632662.10	5/12/2010	Intermediate	60	61	210
GP-T83-003	LL4	499568.39	2632803.93	5/13/2010	Shallow	16	17	33
GP-T83-003	LL4	499568.39	2632803.93	5/13/2010	Shallow	26	27	12
GP-T83-003	LL4	499568.39	2632803.93	5/13/2010	Intermediate	36	37	140
GP-T83-003	LL4	499568.39	2632803.93	5/13/2010	Intermediate	46	47	320
GP-T84-001	LL4	496453.52	2632741.59	5/6/2010	Shallow	11	12	ND
GP-T84-001	LL4	496453.52	2632741.59	5/6/2010	Shallow	21	22	ND
GP-T84-001	LL4	496453.52	2632741.59	5/6/2010	Intermediate	31	32	ND
GP-T84-001	LL4	496453.52	2632741.59	5/6/2010	Intermediate	41	42	ND
GP-T84-002	LL4	496468.56	2633115.13	5/5/2010	Shallow	8	9	ND
GP-T84-002	LL4	496468.56	2633115.13	5/5/2010	Shallow	18	19	ND
GP-T84-002	LL4	496468.56	2633115.13	5/5/2010	Intermediate	28	29	ND
GP-T84-002	LL4	496468.56	2633115.13	5/5/2010	Intermediate	38	39	ND
GP-T84-003	LL4	496487.47	2633498.20	5/5/2010	Shallow	6	7	ND
GP-T84-003	LL4	496487.47	2633498.20	5/5/2010	Shallow	16	17	ND
GP-T84-003	LL4	496487.47	2633498.20	5/5/2010	Intermediate	26	27	0.55 J
GP-T84-003	LL4	496487.47	2633498.20	5/5/2010	Intermediate	36	37	ND
GP-T84-004	LL4	496501.76	2633871.82	5/5/2010	Shallow	6	7	ND
GP-T84-004	LL4	496501.76	2633871.82	5/5/2010	Shallow	16	17	ND
GP-T84-004	LL4	496501.76	2633871.82	5/5/2010	Intermediate	26	27	ND
GP-T84-004	LL4	496501.76	2633871.82	5/5/2010	Intermediate	36	37	ND
GP-T84-005	LL4	496508.83	2634243.13	5/5/2010	Shallow	6	7	ND
GP-T84-005	LL4	496508.83	2634243.13	5/5/2010	Shallow	16	17	ND
GP-T84-005	LL4	496508.83	2634243.13	5/5/2010	Intermediate	26	27	ND
GP-T84-005	LL4	496508.83	2634243.13	5/5/2010	Intermediate	36	37	0.54 J
GP-T84-006	LL4	496440.03	2634643.38	5/5/2010	Shallow	8	9	1.4
GP-T84-006	LL4	496440.03	2634643.38	5/5/2010	Shallow	18	19	8
GP-T84-006	LL4	496440.03	2634643.38	5/5/2010	Intermediate	28	29	3.2
GP-T84-006	LL4	496440.03	2634643.38	5/5/2010	Intermediate	38	39	ND
GP-T98-001	LL4	501667.80	2627379.64	12/12/2011	Shallow	60	61	ND
GP-T98-001	LL4	501667.80	2627379.64	12/12/2011	Shallow	70	71	ND
GP-T98-001	LL4	501667.80	2627379.64	12/12/2011	Intermediate	80	81	0.38 J
GP-T98-001	LL4	501667.80	2627379.64	12/12/2011	Intermediate	80	81	0.34 J
GP-T98-001	LL4	501667.80	2627379.64	12/12/2011	Intermediate	90	91	0.92 J
GP-T98-001	LL4	501667.80	2627379.64	12/12/2011	Intermediate	100	101	0.64 J
GP-T98-001	LL4	501667.80	2627379.64	12/12/2011	Intermediate	110	111	ND
GP-T99-001	LL4	505439.04	2630732.22	11/29/2011	Shallow	54	55	11 J
GP-T99-001	LL4	505439.04	2630732.22	11/29/2011	Shallow	64	65	3.1
GP-T99-001	LL4	505439.04	2630732.22	11/29/2011	Shallow	74	75	1.6
GP-T99-001	LL4	505439.04	2630732.22	11/29/2011	Shallow	74	75	1.2
GP-T99-001	LL4	505439.04	2630732.22	11/29/2011	Intermediate	84	85	ND
GP-T99-001	LL4	505439.04	2630732.22	11/29/2011	Intermediate	94	95	ND
GP-T99-002	LL4	505612.35	2631285.03	11/29/2011	Shallow	52	53	2.7
GP-T99-002	LL4	505612.35	2631285.03	11/29/2011	Shallow	62	63	2

Table 3-2
TCE in Monitoring Wells and Direct-Push Samples (2008-2012)
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
GP-T99-002	LL4	505612.35	2631285.03	11/29/2011	Shallow	72	73	6.6
GP-T99-002	LL4	505612.35	2631285.03	11/29/2011	Intermediate	82	83	3.7
GP-T99-002	LL4	505612.35	2631285.03	11/29/2011	Intermediate	82	83	3.6
GP-T99-002	LL4	505612.35	2631285.03	11/29/2011	Intermediate	92	93	ND
GP-T99-003	LL4	505001.33	2631490.10	11/29/2011	Shallow	52	53	7.3
GP-T99-003	LL4	505001.33	2631490.10	11/29/2011	Shallow	62	63	17 J
GP-T99-003	LL4	505001.33	2631490.10	11/29/2011	Shallow	72	73	42
GP-T99-003	LL4	505001.33	2631490.10	11/29/2011	Intermediate	82	83	16
GP-T99-003	LL4	505001.33	2631490.10	11/29/2011	Intermediate	92	93	3.5
GP-T99-004	LL4	505226.91	2631947.76	11/29/2011	Shallow	51	52	1.1
GP-T99-004	LL4	505226.91	2631947.76	11/29/2011	Shallow	61	62	4.9
GP-T99-004	LL4	505226.91	2631947.76	11/29/2011	Shallow	71	72	0.21 J
GP-T99-004	LL4	505226.91	2631947.76	11/29/2011	Shallow	71	72	0.23 J
GP-T99-004	LL4	505226.91	2631947.76	11/29/2011	Intermediate	81	82	ND
GP-T99-004	LL4	505226.91	2631947.76	11/29/2011	Intermediate	91	92	ND
MW-01A	LL4	511743.02	2618459.71	7/1/2010	Intermediate	79	109	ND
MW-01B	LL4	511743.23	2618469.56	7/1/2010	Shallow	39	79	ND
MW-06-18D	LL4	504327.04	2636163.58	11/8/2010				ND
MW-06-18S	LL4	504327.04	2636163.58	11/8/2010				ND
MW-06-18S	LL4	504327.04	2636163.58	11/8/2010				ND
MW-06-31A	LL4	509516.49	2633148.44	11/8/2010				ND
MW-06-31B	LL4	509718.75	2633861.66	11/8/2010				ND
MW-08A	LL4	506814.75	2622863.97	6/8/2012	Intermediate	84	123	ND
MW-08B	LL4	506820.56	2622872.07	6/8/2012	Shallow	42.1	81	ND
MW-09A	LL4	507435.83	2623570.81	8/24/2012	Intermediate	89	128	300
MW-09B	LL4	507436.09	2623580.33	8/24/2012	Shallow	46.3	85.3	25
MW-09B	LL4	507436.09	2623580.33	8/24/2012	Shallow	46.3	85.3	28
MW-09D	LL4	507436.00	2623593.09	8/24/2012	Intermediate	131	136	780
MW-102A	LL4	514541.23	2622929.37	3/6/2012	Intermediate	117	127	ND
MW-102B	LL4	514540.92	2622923.36	3/6/2012	Shallow	50	60	ND
MW-102B	LL4	514540.92	2622923.36	3/6/2012	Shallow	50	60	ND
MW-102D	LL4	514541.49	2622935.91	3/6/2012	Intermediate	134.5	139.5	ND
MW-103A	LL4	513115.78	2623590.76	3/6/2012	Intermediate	116	126	ND
MW-103B	LL4	513110.25	2623591.23	3/6/2012	Shallow	50	60	ND
MW-103D	LL4	513132.90	2623589.45	3/6/2012	Intermediate	130	135	ND
MW-104A	LL4	499205.59	2634092.17	5/29/2012	Intermediate	31.1	40.6	350
MW-104B	LL4	499205.60	2634082.83	5/29/2012	Shallow	15.1	24.6	340
MW-104D	LL4	499205.34	2634100.79	5/29/2012	Intermediate	44.6	49.1	2.2
MW-104O	LL4	499204.99	2634073.86	5/29/2012	Shallow	5.3	7.3	ND
MW-105A	LL4	496642.99	2635041.97	5/29/2012	Intermediate	30.17	39.67	20
MW-105A	LL4	496642.99	2635041.97	5/29/2012	Intermediate	30.17	39.67	15
MW-105B	LL4	496652.98	2635042.33	5/29/2012	Shallow	14.75	24.25	22 J
MW-105O	LL4	496662.28	2635040.67	5/29/2012	Shallow	5	6.6	ND
MW-106A	LL4	506843.25	2630544.54	8/23/2012	Intermediate	57	67	ND
MW-106B	LL4	506844.10	2630539.26	8/23/2012	Shallow	25	35	ND
MW-106B	LL4	506844.10	2630539.26	8/23/2012	Shallow	25	35	ND
MW-106D	LL4	506842.71	2630549.49	8/23/2012	Intermediate	74	79	ND
MW-107A	LL4	506138.75	2631375.71	8/23/2012	Intermediate	78	88	ND
MW-107B	LL4	506125.15	2631374.07	8/23/2012	Shallow	45	55	ND
MW-107D	LL4	506131.86	2631375.03	8/23/2012	Intermediate	95.5	100.5	ND

Table 3-2
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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
MW-108A	LL4	505912.27	2631915.55	8/23/2012	Intermediate	71	81	ND
MW-108B	LL4	505899.46	2631917.07	8/23/2012	Shallow	35	45	ND
MW-108D	LL4	505906.33	2631916.33	8/23/2012	Intermediate	88.5	93.5	ND
MW-109A	LL4	501896.05	2634807.18	5/30/2012	Intermediate	36.85	46.35	9.4
MW-109A	LL4	501896.05	2634807.18	5/30/2012	Intermediate	36.85	46.35	9.1
MW-109B	LL4	501904.25	2634805.74	5/30/2012	Shallow	19.2	28.7	8.2
MW-109O	LL4	501911.80	2634805.16	5/30/2012	Shallow	6.7	9.2	0.25 J
MW-110A	LL4	504432.79	2634397.71	8/22/2012	Intermediate	39.5	44.5	ND
MW-110B	LL4	504438.88	2634397.15	8/22/2012	Shallow	23	28	ND
MW-110D	LL4	504425.93	2634398.63	8/22/2012	Intermediate	50	55	ND
MW-111A	LL4	499337.97	2636151.56	5/29/2012	Intermediate	31.23	40.73	4.1
MW-111B	LL4	499348.23	2636151.74	5/29/2012	Shallow	14.5	24	8.1
MW-111O	LL4	499356.67	2636152.14	5/29/2012	Shallow	5	6.5	ND
MW-112A	LL4	501825.76	2637365.71	8/23/2012	Intermediate	42.5	47.5	ND
MW-112B	LL4	501832.67	2637365.30	8/23/2012	Shallow	21	26	ND
MW-113A	LL4	500472.21	2637420.11	8/23/2012	Intermediate	36	41	ND
MW-113B	LL4	500477.67	2637419.51	8/23/2012	Shallow	26	31	ND
MW-113D	LL4	500466.04	2637420.33	8/23/2012	Intermediate	48.7	53.7	ND
MW-114A	LL4	497206.93	2637470.60	8/22/2012	Intermediate	37	47	ND
MW-114B	LL4	497204.31	2637465.73	8/22/2012	Shallow	20	30	ND
MW-114D	LL4	497209.78	2637475.69	8/22/2012	Intermediate	52.44	58	ND
MW-115A	LL4	495346.87	2637702.52	8/22/2012	Intermediate	43	48	ND
MW-115B	LL4	495346.86	2637696.41	8/22/2012	Shallow	28	33	ND
MW-115D	LL4	495346.84	2637708.86	8/22/2012	Intermediate	53.89	59.4	ND
MW-116A	LL4	495297.60	2636335.80	8/10/2012	Intermediate	37.5	42.5	7.1
MW-116A	LL4	495297.60	2636335.80	8/10/2012	Intermediate	37.5	42.5	7.3
MW-116B	LL4	495297.23	2636331.53	8/10/2012	Shallow	27	32	ND
MW-116D	LL4	495293.68	2636334.21	8/10/2012	Intermediate	47.98	53.5	ND
MW-133A	LL4	509720.93	2622522.67	5/22/2012	Intermediate	96.5	106.5	18
MW-133B	LL4	509729.90	2622522.69	5/22/2012	Shallow	66	76	160
MW-133D	LL4	509713.15	2622523.17	5/22/2012	Intermediate	111	117	14
MW-134A	LL4	509045.74	2623417.21	5/22/2012	Intermediate	103	113	59
MW-134B	LL4	509052.47	2623413.31	5/22/2012	Shallow	68	78	260
MW-134D	LL4	509039.29	2623421.55	5/22/2012	Intermediate	123	127	79 J
MW-135A	LL4	509762.33	2623150.45	5/23/2012	Intermediate	99.7	109.7	130
MW-135B	LL4	509772.44	2623151.02	5/23/2012	Shallow	60	70	160
MW-135D	LL4	509752.68	2623149.03	5/23/2012	Intermediate	117	122	780
MW-136A	LL4	510561.26	2623054.22	5/23/2012	Intermediate	99.5	109	12
MW-136B	LL4	510560.69	2623064.05	5/23/2012	Shallow	65	74.5	58
MW-136D	LL4	510561.57	2623043.84	5/23/2012	Intermediate	120	124.4	240
MW-136E	LL4	510559.74	2623075.87	5/23/2012	Intermediate	40.5	60	280
MW-137A	LL4	511702.35	2622837.53	5/23/2012	Intermediate	93.2	102.7	7.8
MW-137B	LL4	511704.35	2622846.20	5/23/2012	Shallow	62.6	72.1	61
MW-137D	LL4	511700.84	2622826.92	5/23/2012	Intermediate	112.2	116.6	0.77 J
MW-137E	LL4	511706.78	2622857.08	5/23/2012	Intermediate	42.35	62.05	3500
MW-138A	LL4	512816.56	2622366.41	5/23/2012	Intermediate	117.1	126.6	1.6
MW-138B	LL4	512817.20	2622378.07	5/23/2012	Shallow	64.49	73.99	3600
MW-139A	LL4	514264.29	2621290.28	5/23/2012	Intermediate	131.5	141	0.68 J
MW-139B	LL4	514275.43	2621297.03	5/23/2012	Shallow	71.33	81.2	250
MW-140A	LL4	503375.83	2634717.63	5/29/2012	Intermediate	37	46.5	1.6

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
MW-140B	LL4	503383.63	2634717.22	5/29/2012	Shallow	13	22.5	ND
MW-140D	LL4	503365.40	2634718.42	5/29/2012	Intermediate	57.1	61.5	ND
MW-140O	LL4	503393.25	2634717.20	5/29/2012	Shallow	6.5	9	ND
MW-15	LL4	509482.90	2622745.33	4/7/2008	Shallow	37	47	ND
MW-151A	LL4	506668.08	2624392.64	6/5/2012	Intermediate	94	104	53
MW-151B	LL4	506667.26	2624386.31	6/5/2012	Shallow	70	80	250
MW-152B	LL4	506805.72	2627865.21	6/5/2012	Shallow	60	70	15
MW-153A	LL4	504130.22	2627200.19	6/5/2012	Intermediate	89.5	99.5	630
MW-153B	LL4	504129.53	2627192.86	6/5/2012	Shallow	69	79	410
MW-154A	LL4	504308.25	2631170.17	6/5/2012	Intermediate	76	86	68
MW-154B	LL4	504308.20	2631165.22	6/5/2012	Shallow	55	65	18
MW-155A	LL4	502435.45	2629444.96	6/5/2012	Intermediate	89	99	900
MW-155A	LL4	502435.45	2629444.96	6/5/2012	Intermediate	89	99	930
MW-155B	LL4	502456.41	2629441.73	12/06/2012	Shallow	54.65	64.65	180
MW-155E	LL4	502444.32	2629444.89	6/5/2012	Intermediate	69	79	430
MW-156A	LL4	501928.83	2633019.60	6/5/2012	Intermediate	36	46	0.98 J
MW-156B	LL4	501922.48	2633018.32	6/5/2012	Shallow	16	26	ND
MW-156B	LL4	501922.48	2633018.32	6/5/2012	Shallow	16	26	ND
MW-157A	LL4	499117.46	2632549.30	6/5/2012	Intermediate	45	55	24
MW-157B	LL4	499118.08	2632559.03	6/5/2012	Shallow	27	37	0.92 J
MW-158A	LL4	493887.89	2635279.61	8/22/2012	Intermediate	27	37	ND
MW-158B	LL4	493887.64	2635271.87	8/22/2012	Shallow	14	24	ND
MW-158D	LL4	493890.97	2635268.63	8/22/2012	Intermediate	44	49	ND
MW-159A	LL4	510307.81	2629111.84	8/23/2012	Intermediate	110	120	ND
MW-159B	LL4	510300.62	2629111.64	8/23/2012	Shallow	75	85	ND
MW-176A	LL4	499810.44	2632839.14	12/06/2012	Intermediate	43.5	53.5	120
MW-176B	LL4	499818.35	2632839.67	12/06/2012	Shallow	24.1	34.1	720
MW-178B	LL4	506851.75	2628870.63	12/06/2012	Shallow	78.87	88.87	19
MW-18A	LL4	506832.33	2629150.32	6/4/2012	Intermediate	122	125	ND
MW-18B	LL4	506827.45	2629156.56	6/4/2012	Shallow	NA	NA	ND
MW-18C	LL4	506821.93	2629148.52	6/4/2012	Shallow	36.7	46.7	13
MW-36A	LL4	496694.94	2634814.83	4/12/2007	Intermediate	28	38	37.4
MW-36A	LL4	496694.94	2634814.83	4/12/2007	Intermediate	28	38	38.4
MW-36B	LL4	496692.86	2634805.75	4/12/2007	Shallow	17	27	24.4
MW-37A	LL4	491651.93	2633418.32	3/15/2007	Intermediate	30	40	ND
MW-37B	LL4	491631.64	2633416.51	3/15/2007	Shallow	24	29	ND
MW-38A	LL4	496248.57	2638131.87	8/22/2012	Intermediate	44.7	49.2	ND
MW-38A	LL4	496248.57	2638131.87	8/22/2012	Intermediate	44.7	49.2	ND
MW-38D	LL4	496250.60	2638138.80	8/22/2012	Intermediate	58.5	63.5	ND
MW-39A	LL4	499304.69	2640062.25	3/13/2006	Intermediate	44	48.5	ND
MW-40A	LL4	511963.35	2623018.62	6/8/2012	Shallow	120.5	125.5	2.6
MW-40B	LL4	511962.76	2623006.74	6/8/2012	Shallow	54	64	81
MW-41A	LL4	512001.33	2624371.47	3/6/2012	Intermediate	71.5	81.5	ND
MW-41B	LL4	512001.37	2624361.82	3/6/2012	Shallow	36	46	ND
MW-41D	LL4	512000.98	2624353.22	3/7/2012	Intermediate	87	92	ND
MW-42A	LL4	501582.56	2629385.19	6/5/2012	Intermediate	86	96	120
MW-42A	LL4	501582.56	2629385.19	6/5/2012	Intermediate	86	96	130
MW-42B	LL4	501592.64	2629385.28	6/5/2012	Shallow	53	63	ND
MW-42D	LL4	501572.17	2629384.98	6/5/2012	Intermediate	103.2	108.2	130
MW-43A	LL4	504317.91	2629243.06	6/5/2012	Intermediate	90.5	100.5	12

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
MW-43B	LL4	504328.19	2629244.24	6/5/2012	Shallow	40	50	1.8
MW-43D	LL4	504308.09	2629242.20	6/5/2012	Intermediate	106.4	111.4	15
MW-44A	LL4	500415.11	2632953.68	6/5/2012	Intermediate	29.5	39.5	190
MW-44A	LL4	500415.11	2632953.68	6/5/2012	Intermediate	29.5	39.5	170
MW-44B	LL4	500426.32	2632954.90	6/5/2012	Shallow	16	26	6.2
MW-44D	LL4	500403.75	2632952.84	6/5/2012	Intermediate	50.8	55.8	13
MW-45A	LL4	499241.12	2635043.53	9/13/2006	Intermediate	28	38	17.8
MW-45A	LL4	499241.12	2635043.53	9/13/2006	Intermediate	28	38	18.1
MW-45B	LL4	499241.14	2635053.92	9/13/2006	Shallow	17	27	21.5
MW-46A	LL4	499387.37	2637464.93	8/23/2012	Intermediate	33.2	43.2	ND
MW-46A	LL4	499387.37	2637464.93	8/23/2012	Intermediate	33.2	43.2	ND
MW-46B	LL4	499396.67	2637464.42	8/23/2012	Shallow	21	31	ND
MW-46D	LL4	499375.98	2637465.39	8/23/2012	Intermediate	52.5	57.5	ND
MW-52A	LL4	508784.56	2627012.54	11/10/2011	Intermediate	48	58	0.95 J
MW-52B	LL4	508778.93	2627004.23	11/10/2011	Shallow	42.5	52.5	0.3 J
MW-53A	LL4	508169.87	2627897.77	9/26/2007	Intermediate	87	97	0.45 J
MW-53B	LL4	508166.61	2627885.39	9/26/2007	Shallow	27.5	37.5	18
MW-54A	LL4	508858.25	2627893.82	6/8/2012	Intermediate	66	76	ND
MW-54B	LL4	508855.98	2627883.87	6/8/2012	Shallow	24	29	ND
MW-55A	LL4	508377.66	2628135.40	6/8/2012	Intermediate	74	84	ND
MW-55B	LL4	508374.22	2628125.87	6/8/2012	Shallow	56	66	ND
MW-55B	LL4	508374.22	2628125.87	6/8/2012	Shallow	56	66	ND
MW-56A	LL4	508215.31	2628206.01	8/14/2008	Intermediate	69	79	ND
MW-56B	LL4	508217.29	2628195.32	8/14/2008	Shallow	21	31	0.45 J
MW-62A	LL4	493874.24	2635396.62	10/20/2010	Intermediate	27	37	ND
MW-62B	LL4	493871.95	2635385.05	10/20/2010	Shallow	17	24	ND
MW-62B	LL4	493871.95	2635385.05	10/20/2010	Shallow	17	24	ND
MW-62D	LL4	493876.95	2635407.14	10/20/2010	Intermediate	44	49	ND
MW-64B	LL4	510106.02	2628038.55	2/5/2010	Shallow	19	29	ND
MW-72A	LL4	512064.68	2622930.98	6/8/2012	Intermediate	88	108	3.6
MW-72B	LL4	512064.18	2622921.73	6/8/2012	Shallow	40	70	1100 J
MW-72B	LL4	512064.18	2622921.73	6/8/2012	Shallow	40	70	1100 J
MW-73A	LL4	511909.15	2623060.92	6/2/2011	Intermediate	88	108	2.5
MW-73B	LL4	511908.70	2623052.30	6/2/2011	Shallow	40	70	400
MW-74A	LL4	511934.83	2623093.85	12/12/2007	Intermediate	88.1	108.1	1.6
MW-74B	LL4	511934.80	2623085.25	12/12/2007	Shallow	40	70	290
MW-75A	LL4	511962.34	2623130.00	12/12/2007	Intermediate	87.1	107.1	2.7
MW-75B	LL4	511961.81	2623120.34	12/12/2007	Shallow	40	70	330
MW-76A	LL4	511983.32	2623158.64	12/12/2007	Intermediate	88	108.5	1.7
MW-76B	LL4	511982.59	2623148.91	12/12/2007	Shallow	40.5	70.5	140
MW-77A	LL4	512008.01	2623192.11	12/12/2007	Intermediate	83.5	103.5	1.7
MW-77B	LL4	512007.27	2623180.55	12/12/2007	Shallow	40	70	140
MW-78A	LL4	512032.75	2623223.84	6/8/2012	Intermediate	85	105	0.47 J
MW-78B	LL4	512031.29	2623213.77	6/8/2012	Shallow	40	70	34 J
MW-78B	LL4	512031.29	2623213.77	6/8/2012	Shallow	40	70	46 J
MW-87A	LL4	491898.02	2635039.80	5/29/2012	Intermediate	36	46	ND
MW-87B	LL4	491900.96	2635035.21	5/29/2012	Shallow	17	27	ND
MW-87D	LL4	491895.21	2635044.00	5/29/2012	Intermediate	50.1	55.6	ND
MW-88A	LL4	494045.12	2637643.91	8/22/2012	Intermediate	35	45	ND

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Location	Load Line	Northing (NAD 83)	Easting (NAD 83)	Date of Sample	Aquifer Designation	Top Sample Depth (ft bgs)	Bottom Sample Depth (ft bgs)	TCE Result (µg/L)
MW-88B	LL4	494044.20	2637639.18	8/22/2012	Shallow	20	30	ND
MW-88D	LL4	494046.07	2637648.61	8/22/2012	Intermediate	50.5	55.5	ND

Notes:
µg/L - Micrograms per liter
bgs = below ground surface
ft = feet
ft bgs = Feet below ground surface
BAZE = Biologically Active Zone Enhancement
EW = Extraction Well
GP = Direct Push
J = Estimated from Laboratory
LL = Load Line
MW = Monitoring Well
NA = Information Not Available
NAD 83- North American Datum of 1983
ND = Not Detected
NOP = Nebraska Ordnance Plant
OW = Observation Well
PZ = Piezometer
TCE = Trichloroethene

Source: *Load Line 1 Focused Extraction Pilot Test Summary and Analysis Report Operable Unit No. 2 Former Nebraska Ordnance Plant Mead, Nebraska* Brown & Caldwell, March 15, 2013

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Table 5-1
Simulation Periods
2012 Groundwater Model Report
Former NOP, Mead, Nebraska

Stress Period	Elapsed Time	Dates	
1	1	8/26/2010	
2	5	8/27/2010	8/31/2010
3	20	9/1/2010	9/15/2010
4	35	9/16/2010	9/30/2010
5	54	10/1/2010	10/19/2010
6	96	10/20/2010	11/30/2010
7	186	12/1/2010	2/28/2011
8	278	3/1/2011	5/31/2011
9	287	6/1/2011	6/9/2011
10	299	6/10/2011	6/21/2011
11	305	6/22/2011	6/27/2011
12	312	6/28/2011	7/4/2011
13	315	7/5/2011	7/7/2011
14	320	7/7/2011	7/12/2011
15	322	7/12/2011	7/14/2011
16	354	7/15/2011	8/15/2011
17	370	8/16/2011	8/31/2011
18	461	9/1/2011	11/30/2011
19	539	12/1/2011	2/16/2012
20	558	2/17/2012	3/6/2012
21	574	3/7/2012	3/22/2012
22	644	3/23/2012	5/31/2012
23	705	6/1/2012	7/31/2012
24	731	8/1/2012	8/26/2012
25	736	8/27/2012	8/31/2012
26	740.4	9/1/2012	9/4/2012
27	743.4	9/4/2012	9/7/2012
28	746	9/7/2012	9/10/2012
29	796	9/11/2012	10/30/2012

Notes:
NOP - Nebraska Ordnance Plant

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Table 5-2
Residuals from August 2010 Transient
2012 Groundwater Model Report
Former NOP, Mead, Nebraska

Name	Time	X	Y	Layer	Observed	Computed	Weight	Group	Residual
Brabec	1	2618637.53	493130.49	3	1099.32	1099.317471	1	1	0.002529
D.Starns	1	2647807.25	467164.01	3	1051.48	1047.890526	1	1	3.589474
Frahm	1	2626738.84	493304.52	3	1091.04	1090.916501	1	1	0.123499
Hanson	1	2623180.17	493348.86	3	1094.27	1094.359209	1	1	-0.089209
LPN_06-01	1	2642292.17	478302.11	3	1064.59	1063.972901	1	1	0.617099
LPN_06-18	1	2635721.74	504500.62	3	1086.26	1085.580078	1	1	0.679922
LPN_06-20	1	2631355.09	520347.13	3	1147.41	1147.166991	1	1	0.243009
LPN_06-21	1	2628536.27	525369.84	3	1152.3	1152.83915	1	1	-0.53915
LPN06-19	1	2634208.23	514979.75	3	1103.86	1105.018397	1	1	-1.158397
M90-01	1	2640590.79	488958.8	3	1071.82	1071.331769	1	1	0.488231
M90-02	1	2645833.34	489117.85	3	1071.29	1070.70906	1	1	0.58094
M90-04	1	2640807.93	484163.23	3	1067.78	1067.468958	1	1	0.311042
M90-05R	1	2645266.37	482393.07	3	1065.95	1065.622848	1	1	0.327152
M90-09	1	2640866.61	478557.35	3	1064.13	1064.017772	1	1	0.112228
M90-12R	1	2647999.03	479369.24	3	1062.6	1063.007741	1	1	-0.407741
M90-15	1	2641258.12	472881.56	3	1060.08	1059.391923	1	1	0.688077
M90-16R	1	2645344.89	473282.19	3	1060.77	1061.066737	1	1	-0.296737
M90-17R	1	2648791.5	473326.64	3	1059.14	1058.274709	1	1	0.865291
M90-20R	1	2651427.57	470805.41	3	1057.76	1058.251839	1	1	-0.491839
M90-21	1	2642068.72	468390.33	3	1058.4	1057.886448	1	1	0.513552
M90-22R	1	2645116.45	467804.04	3	1055.58	1053.479627	1	1	2.100373
M90-23R	1	2649222.45	468585.23	3	1042.91	1044.177399	1	1	-1.267399
M90-24R	1	2650175.62	465992.63	3	1045.42	1044.417336	1	1	1.002664
M90-26R	1	2652730.86	465392.21	3	1050.4	1050.447797	1	1	-0.047797
M90-36R	1	2653436.76	465017.15	3	1052.67	1052.467709	1	1	0.202291
M90-37	1	2652867.09	463331.64	3	1051.15	1050.955908	1	1	0.194092
MUD_4-17	1	2648029.88	517482.74	3	1097.13	1097.196487	1	1	-0.066487
MUD_5-22	1	2650308.14	505200.01	3	1083.88	1082.353972	1	1	1.526028
MUD_5-23	1	2645147.13	505264.93	3	1082.52	1081.853672	1	1	0.666328
MUD_5-24	1	2652315.31	518352.45	3	1097.53	1096.144169	1	1	1.385831
MUD_5-25	1	2650818.62	524749.91	3	1101.94	1105.094305	1	1	-3.154305
MUD_5-26	1	2647341.63	528803.46	3	1107.78	1112.411873	1	1	-4.631873
MUD_6-27	1	2639026.12	507454.16	3	1085.66	1084.986985	1	1	0.673015
MUD_6-28	1	2638860.99	509627.34	3	1087.17	1087.388318	1	1	-0.218318
MUD_6-29	1	2652830.99	515925.6	3	1095.19	1093.689599	1	1	1.500401
MUD_90-10	1	2645430.5	516093.59	3	1090.21	1090.536224	1	1	-0.326224
MUD_90-12	1	2659998.54	526004.96	3	1097.48	1101.176093	1	1	-3.696093
MUD_90-13	1	2655509.45	511616.41	3	1090.28	1088.481266	1	1	1.798734
MUD_90-5	1	2650506.77	522079.29	3	1097.45	1101.478253	1	1	-4.028253
MUD_90-6	1	2654010.25	525892.56	3	1103.2	1105.289233	1	1	-2.089233
MUD_90-7	1	2645992.44	524873.41	3	1104.5	1108.273702	1	1	-3.773702
MUD_94-5	1	2640274.41	514549.3	3	1093.01	1092.13297	1	1	0.87703
MUD_94-6	1	2639186.28	503954.84	3	1082.86	1080.187156	1	1	2.672844
MW-03A	1	2607532.26	506223.42	3	1132.96	1133.490382	1	1	-0.530382
MW-03B	1	2607542.05	506225.42	2	1132.99	1133.412461	1	1	-0.422461
MW-04A	1	2612041.94	506256.77	3	1132.01	1132.169441	1	1	-0.159441
MW-04B	1	2612051.44	506259.36	2	1132	1132.129615	1	1	-0.129615
MW-05A	1	2613044.09	507097.63	3	1133.22	1133.382854	1	1	-0.162854
MW-05B	1	2613053.87	507097.47	2	1133.17	1133.336536	1	1	-0.166536
MW-07A	1	2618267.1	507274.83	3	1126.24	1126.433471	1	1	-0.193471
MW-07B	1	2618276.53	507276.12	2	1126.26	1126.41548	1	1	-0.15548
MW-08A	1	2622863.97	506814.76	3	1119.45	1119.237977	1	1	0.212023
MW-08B	1	2622872.08	506820.56	2	1119.49	1119.249341	1	1	0.240659
MW-09A	1	2623570.81	507435.84	3	1119.84	1119.744788	1	1	0.095212
MW-09B	1	2623580.33	507436.09	2	1120.03	1119.735985	1	1	0.294015
MW-100A	1	2629718.84	493770.41	3	1086.08	1086.011569	1	1	0.068431
MW-100B	1	2629718.07	493777.19	2	1086.04	1086.016647	1	1	0.023353
MW-101A	1	2610929.39	491574.12	3	1099.83	1099.879144	1	1	-0.049144
MW-101B	1	2610923.62	491573.82	2	1099.84	1099.910983	1	1	-0.070983
MW-102A	1	2622929.38	514541.24	3	1135.9	1136.043173	1	1	-0.143173
MW-102B	1	2622923.37	514540.93	2	1135.38	1135.993469	1	1	-0.613469
MW-103A	1	2623590.77	513115.79	3	1132.58	1132.792463	1	1	-0.212463
MW-103B	1	2623591.23	513110.25	2	1132.95	1132.78228	1	1	0.16772
MW-106A	1	2630544.55	506843.26	3	1100.77	1101.039657	1	1	-0.269657

Table 5-2
Residuals from August 2010 Transient
2012 Groundwater Model Report
Former NOP, Mead, Nebraska

Name	Time	X	Y	Layer	Observed	Computed	Weight	Group	Residual
MW-106B	1	2630539.26	506844.1	2	1101.33	1101.055772	1	1	0.274228
MW-107A	1	2631428.14	506138.76	3	1096.79	1097.399654	1	1	-0.609654
MW-107B	1	2631374.08	506125.16	2	1097.61	1097.520657	1	1	0.089343
MW-108A	1	2631915.55	505912.28	3	1095.65	1095.943118	1	1	-0.293118
MW-108B	1	2631917.07	505899.47	2	1096.7	1095.93105	1	1	0.76895
MW-109A	1	2634807.18	501896.06	3	1083.7	1083.480509	1	1	0.219491
MW-109B	1	2634805.75	501904.25	2	1083.84	1083.479676	1	1	0.360324
MW-109O	1	2634811.95	501918.59	1	1079.02	1075.817139	1	1	3.202861
MW-10A	1	2607883.83	496858.27	3	1110.31	1110.466283	1	1	-0.156283
MW-10B	1	2607893.74	496858.92	2	1110.34	1110.454016	1	1	-0.114016
MW-11	1	2626486.32	509499.8	3	1125.92	1124.87652	1	1	1.04348
MW-110A	1	2634397.71	504432.79	3	1088.05	1087.448925	1	1	0.601075
MW-110B	1	2634397.16	504438.89	2	1088.27	1087.395051	1	1	0.874949
MW-111A	1	2636151.56	499337.97	3	1078.61	1076.657191	1	1	1.952809
MW-111B	1	2636151.75	499348.24	2	1078.13	1076.532501	1	1	1.597499
MW-111O	1	2636155.68	499360.16	1	1075.78	1067.996539	1	1	7.783461
MW-112A	1	2637365.72	501825.77	3	1081.25	1081.386981	1	1	-0.136981
MW-112B	1	2637365.3	501832.67	2	1081.3	1081.396364	1	1	-0.096364
MW-113A	1	2637420.11	500472.22	3	1079.75	1079.32347	1	1	0.42653
MW-113B	1	2637419.51	500477.68	2	1079.77	1079.33511	1	1	0.43489
MW-114A	1	2637470.6	497206.93	3	1076.6	1075.557716	1	1	1.042284
MW-114B	1	2637465.73	497204.32	2	1076.55	1075.473937	1	1	1.076063
MW-115A	1	2637702.52	495346.88	3	1075.76	1074.726644	1	1	1.033356
MW-115B	1	2637696.42	495346.87	2	1075.76	1074.666009	1	1	1.093991
MW-116A	1	2636335.8	495297.6	3	1074.88	1074.461434	1	1	0.418566
MW-116B	1	2636331.54	495297.24	2	1075.01	1074.440253	1	1	0.569747
MW-117A	1	2631041.42	495048	3	1083.73	1083.683266	1	1	0.046734
MW-117B	1	2631040.5	495053.98	2	1083.76	1083.686867	1	1	0.073133
MW-118A	1	2625905.31	496207.7	3	1091.97	1091.98679	1	1	-0.01679
MW-118B	1	2625884.54	496207.84	2	1092.01	1092.024759	1	1	-0.014759
MW-119A	1	2607952.61	499580.81	3	1115.39	1115.466169	1	1	-0.076169
MW-119B	1	2607941.55	499593.35	2	1115.44	1115.480606	1	1	-0.040606
MW-120A	1	2609372.3	499419.07	3	1113.68	1113.626198	1	1	0.053802
MW-120B	1	2609372.7	499438.97	2	1113.73	1113.637018	1	1	0.092982
MW-120E	1	2609372.68	499430.79	3	1113.7	1113.623929	1	1	0.076071
MW-121A	1	2609752.79	500071.02	3	1114.8	1114.60857	1	1	0.19143
MW-121B	1	2609779.26	500071.59	2	1114.82	1114.659413	1	1	0.160587
MW-121E	1	2609763.3	500071.29	3	1115.04	1114.628699	1	1	0.411301
MW-122A	1	2609240.41	498101.34	2	1111.76	1111.920988	1	1	-0.160988
MW-122B	1	2609232.29	498114.61	2	1111.72	1111.947118	1	1	-0.227118
MW-123A	1	2608677.91	499909.07	3	1114.38	1114.168359	1	1	0.211641
MW-123B	1	2608666	499909.02	2	1114.47	1114.237874	1	1	0.232126
MW-124A	1	2609115.81	501486.16	3	1119.02	1119.294404	1	1	-0.274404
MW-124B	1	2609107.79	501496.31	2	1119.05	1119.326702	1	1	-0.276702
MW-125A	1	2609457.06	500663.23	3	1116.19	1115.998093	1	1	0.191907
MW-125B	1	2609468.11	500661.63	2	1116.14	1116.002408	1	1	0.137592
MW-126A	1	2607483.63	504504.82	3	1129.67	1130.071553	1	1	-0.401553
MW-126B	1	2607482.56	504514.66	2	1129.76	1130.01161	1	1	-0.25161
MW-127A	1	2606121.55	506918.35	3	1135.48	1135.961461	1	1	-0.481461
MW-127B	1	2606121.65	506931.42	2	1135.53	1135.882852	1	1	-0.352852
MW-128A	1	2624836.13	498190.8	2	1094.9	1094.931627	1	1	-0.031627
MW-128B	1	2624838.49	498197.84	2	1094.87	1094.931136	1	1	-0.061136
MW-129A	1	2627766.39	496542.43	3	1088.11	1088.127765	1	1	-0.017765
MW-129B	1	2627771.4	496545.39	2	1088.06	1088.1192	1	1	-0.0592
MW-130A	1	2629053.38	496650.27	3	1085.88	1086.068658	1	1	-0.188658
MW-130B	1	2629059.01	496659.85	2	1085.98	1086.060165	1	1	-0.080165
MW-131A	1	2626341.54	496939.83	3	1091.09	1091.332848	1	1	-0.242848
MW-131B	1	2626348.52	496944.69	2	1091.27	1091.312709	1	1	-0.042709
MW-132A	1	2625254.59	497254.4	3	1093.35	1093.632362	1	1	-0.282362
MW-132B	1	2625258.17	497261.76	2	1093.35	1093.626926	1	1	-0.276926
MW-133A	1	2622522.67	509720.93	3	1124.06	1124.113474	1	1	-0.053474
MW-133B	1	2622522.69	509729.9	2	1124.25	1124.140216	1	1	0.109784
MW-134A	1	2623417.21	509045.74	3	1122.49	1122.842968	1	1	-0.352968
MW-134B	1	2623413.31	509052.47	2	1122.6	1122.849518	1	1	-0.249518

Table 5-2
Residuals from August 2010 Transient
2012 Groundwater Model Report
Former NOP, Mead, Nebraska

Name	Time	X	Y	Layer	Observed	Computed	Weight	Group	Residual
MW-135A	1	2623150.45	509762.33	3	1123.27	1123.656759	1	1	-0.386759
MW-135B	1	2623151.02	509772.44	2	1123.35	1123.678256	1	1	-0.328256
MW-136A	1	2623054.23	510561.26	3	1125.79	1126.305204	1	1	-0.515204
MW-136B	1	2623064.05	510560.7	2	1126.04	1126.29607	1	1	-0.25607
MW-136E	1	2623075.88	510559.75	2	1126.09	1126.297149	1	1	-0.207149
MW-137A	1	2622837.54	511702.36	3	1130.93	1130.486181	1	1	0.443819
MW-137B	1	2622846.21	511704.35	2	1130.71	1130.494476	1	1	0.215524
MW-137E	1	2622857.08	511706.78	2	1130.74	1130.489802	1	1	0.250198
MW-138A	1	2622366.41	512816.57	3	1133.63	1133.573645	1	1	0.056355
MW-138B	1	2622378.08	512817.2	2	1133.67	1133.559729	1	1	0.110271
MW-139A	1	2621290.29	514264.29	3	1136.44	1136.761904	1	1	-0.321904
MW-139B	1	2621297.04	514275.44	2	1136.4	1136.746815	1	1	-0.346815
MW-140A	1	2634717.63	503375.83	3	1086.4	1085.760481	1	1	0.639519
MW-140B	1	2634717.22	503383.63	2	1086.5	1085.760521	1	1	0.739479
MW-141A	1	2608446.6	502590.64	3	1123.85	1124.132602	1	1	-0.282602
MW-141B	1	2608446.5	502597.16	2	1123.9	1124.110917	1	1	-0.210917
MW-141E	1	2608446.5	502604.35	3	1123.85	1124.174933	1	1	-0.324933
MW-142A	1	2610572.95	495594.89	3	1107.21	1107.50179	1	1	-0.29179
MW-142E	1	2610563.98	495595.06	2	1107.21	1107.463218	1	1	-0.253218
MW-143B	1	2621339.98	502719.77	2	1109.43	1109.653081	1	1	-0.223081
MW-144A	1	2614012.25	503570.97	3	1123.03	1123.528648	1	1	-0.498648
MW-144E	1	2614019.84	503573.09	3	1123.73	1123.532246	1	1	0.197754
MW-145A	1	2617407.83	500652.84	3	1111.35	1111.71976	1	1	-0.36976
MW-145E	1	2617414.44	500652.99	3	1111.64	1111.71209	1	1	-0.07209
MW-146A	1	2618871.66	494899.38	3	1098.78	1099.348069	1	1	-0.568069
MW-146B	1	2618871.66	494899.37	2	1098.81	1099.341048	1	1	-0.531048
MW-147A	1	2620042.44	494474.75	3	1096.97	1097.254707	1	1	-0.284707
MW-147B	1	2620045.18	494471.71	2	1096.94	1097.246737	1	1	-0.306737
MW-148B	1	2620179.92	504425.78	2	1116.71	1116.912414	1	1	-0.202414
MW-149A	1	2622398.38	502086.76	3	1106.03	1106.177797	1	1	-0.147797
MW-150A	1	2624201.15	499856.55	3	1098.59	1098.490904	1	1	0.099096
MW-150B	1	2624200.78	499864.11	2	1098.55	1098.512506	1	1	0.037494
MW-151A	1	2624392.64	506668.08	3	1115.25	1115.802793	1	1	-0.552793
MW-151B	1	2624386.31	506667.26	2	1115.26	1115.800446	1	1	-0.540446
MW-152B	1	2627865.21	506805.72	2	1108.62	1108.803652	1	1	-0.183652
MW-153A	1	2627200.19	504130.22	3	1102.07	1102.391916	1	1	-0.321916
MW-153B	1	2627192.86	504129.53	2	1102.03	1102.397125	1	1	-0.367125
MW-154A	1	2631170.17	504308.25	3	1094.51	1095.116838	1	1	-0.606838
MW-154B	1	2631165.21	504308.2	2	1095.06	1095.126182	1	1	-0.066182
MW-155A	1	2629444.96	502435.45	3	1095.95	1096.05521	1	1	-0.10521
MW-155E	1	2629444.89	502444.32	3	1095.93	1096.065623	1	1	-0.135623
MW-156A	1	2633019.6	501928.83	3	1088.39	1088.170966	1	1	0.219034
MW-156B	1	2633018.32	501922.48	2	1089.06	1088.152661	1	1	0.907339
MW-157A	1	2632549.3	499117.46	3	1083.64	1083.714889	1	1	-0.074889
MW-157B	1	2632559.02	499118.08	2	1083.61	1083.672487	1	1	-0.062487
MW-158A	1	2635279.53	493887.42	3	1074.34	1073.974378	1	1	0.365622
MW-158B	1	2635272	493887.38	2	1074.26	1073.951848	1	1	0.308152
MW-159A	1	2629111.8	510307.65	3	1116.01	1115.736385	1	1	0.273615
MW-159B	1	2629111.63	510300.52	2	1115.92	1115.727766	1	1	0.192234
MW-16B	1	2604911.66	514026.38	3	1154.48	1153.767845	1	1	0.712155
MW-16C	1	2604917.63	514034.74	2	1154.43	1153.878757	1	1	0.551243
MW-17B	1	2603293.03	499101.48	3	1120.48	1120.247705	1	1	0.232295
MW-18A	1	2629150.33	506832.34	3	1103.72	1104.755031	1	1	-1.035031
MW-18B	1	2629156.57	506827.46	3	1103.38	1104.728522	1	1	-1.348522
MW-18C	1	2629148.53	506821.93	2	1106.95	1104.772613	1	1	2.177387
MW-19B	1	2618429.63	517576.97	3	1147.61	1146.84059	1	1	0.76941
MW-20A	1	2616622.54	493189.94	3	1100.16	1101.051976	1	1	-0.891976
MW-20B	1	2616633.43	493191.47	3	1100.18	1101.034955	1	1	-0.854955
MW-20C	1	2616611.43	493187.61	2	1101.84	1101.072171	1	1	0.767829
MW-21A	1	2607121.37	503524.81	3	1128.69	1128.590197	1	1	0.099803
MW-21B	1	2607111.29	503524.05	2	1128.65	1128.563256	1	1	0.086744
MW-22B	1	2606604.48	510403.43	2	1145.06	1145.074738	1	1	-0.014738
MW-24A	1	2608476.9	501919.83	3	1121.88	1121.899432	1	1	-0.019432
MW-24B	1	2608477.73	501909.01	2	1122.15	1121.8473	1	1	0.3027

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Name	Time	X	Y	Layer	Observed	Computed	Weight	Group	Residual
MW-25A	1	2608308.41	504875.16	3	1129.55	1130.097126	1	1	-0.547126
MW-25B	1	2608308.27	504885.58	2	1129.6	1130.038852	1	1	-0.438852
MW-26A	1	2609860.44	508825.09	3	1140.23	1140.330784	1	1	-0.100784
MW-26B	1	2609849.9	508824.87	2	1140.14	1140.295857	1	1	-0.155857
MW-27B	1	2611427.01	508110.55	2	1137.35	1137.430488	1	1	-0.080488
MW-28A	1	2612951.02	502242.71	3	1120.52	1120.656968	1	1	-0.136968
MW-28B	1	2612936.01	502242.26	2	1120.21	1120.556249	1	1	-0.346249
MW-29A	1	2614469.84	498383.11	3	1109.62	1109.911801	1	1	-0.291801
MW-29B	1	2614460.98	498382.37	2	1109.68	1109.87158	1	1	-0.19158
MW-31A	1	2617943.95	503233.7	3	1118.43	1118.219264	1	1	0.210736
MW-31B	1	2617935.17	503238.63	2	1117.83	1118.225232	1	1	-0.395232
MW-32A	1	2619697.25	499062.26	3	1104.25	1104.271008	1	1	-0.021008
MW-32B	1	2619696.91	499069.08	2	1104.22	1104.290869	1	1	-0.070869
MW-33A	1	2622410.84	502847.91	3	1107.87	1108.03052	1	1	-0.16052
MW-33B	1	2622401.05	502854.78	2	1107.9	1108.050076	1	1	-0.150076
MW-34A	1	2624442.78	498806.3	3	1095.97	1096.076169	1	1	-0.106169
MW-34B	1	2624443.06	498814.11	2	1096.13	1096.083264	1	1	0.046736
MW-35A	1	2629595.76	496323.64	3	1085.24	1085.36773	1	1	-0.12773
MW-35B	1	2629595.84	496329.37	2	1085.2	1085.365008	1	1	-0.165008
MW-38A	1	2638131.88	496248.57	3	1076.08	1075.059947	1	1	1.020053
MW-39A	1	2640062.25	499304.69	3	1078.61	1076.427876	1	1	2.182124
MW-40A	1	2623018.62	511963.35	3	1131.4	1130.93316	1	1	0.46684
MW-40B	1	2623006.75	511962.76	2	1131.34	1130.95268	1	1	0.38732
MW-42A	1	2629385.2	501582.56	3	1095.33	1095.10279	1	1	0.22721
MW-42B	1	2629385.28	501592.64	2	1095.29	1095.129531	1	1	0.160469
MW-43A	1	2629243.07	504317.91	3	1098.96	1099.157872	1	1	-0.197872
MW-43B	1	2629244.24	504328.2	2	1099.09	1099.181838	1	1	-0.091838
MW-44A	1	2632953.68	500415.12	3	1084.64	1083.654864	1	1	0.985136
MW-44B	1	2632954.9	500426.32	2	1082.94	1083.615123	1	1	-0.675123
MW-46A	1	2637464.94	499387.37	3	1078.32	1077.00081	1	1	1.31919
MW-46B	1	2637464.42	499396.68	2	1078.33	1076.846226	1	1	1.483774
MW-52A	1	2627012.55	508784.57	3	1119.77	1119.495656	1	1	0.274344
MW-52B	1	2627004.24	508778.94	2	1119.58	1119.514542	1	1	0.065458
MW-53A	1	2627897.77	508169.88	3	1110.36	1111.739728	1	1	-1.379728
MW-53B	1	2627885.4	508166.61	2	1112.61	1111.851134	1	1	0.758866
MW-54A	1	2627893.82	508858.25	3	1112.36	1113.829374	1	1	-1.469374
MW-54B	1	2627883.88	508855.98	2	1114.97	1113.908638	1	1	1.061362
MW-55A	1	2628135.4	508377.66	3	1110.44	1111.02084	1	1	-0.58084
MW-55B	1	2628125.88	508374.22	2	1110.62	1111.019109	1	1	-0.399109
MW-56A	1	2628206.01	508215.32	3	1109.81	1110.371385	1	1	-0.561385
MW-56B	1	2628195.32	508217.29	2	1111.96	1110.390167	1	1	1.569833
MW-57B	1	2607621.51	516363.44	2	1155.73	1156.423773	1	1	-0.693773
MW-60A	1	2624702.83	489585.15	3	1091.43	1091.723059	1	1	-0.293059
MW-61A	1	2608656.02	492900.05	3	1102.73	1102.815028	1	1	-0.085028
MW-61B	1	2608644.38	492898.6	2	1102.66	1102.813636	1	1	-0.153636
MW-62A	1	2635396.62	493874.24	3	1074.48	1073.848368	1	1	0.631632
MW-62B	1	2635385.06	493871.95	2	1074.47	1073.817368	1	1	0.652632
MW-63B	1	2613167.91	519473.6	2	1152.05	1152.183684	1	1	-0.133684
MW-65A	1	2613203.05	506090.52	3	1131.04	1130.937897	1	1	0.102103
MW-65B	1	2613193.3	506091.23	2	1131	1130.919232	1	1	0.080768
MW-66B	1	2613268.32	506027.61	2	1129.9	1130.653197	1	1	-0.753197
MW-71B	1	2613382.62	506090.27	2	1130.83	1130.740055	1	1	0.089945
MW-72A	1	2622930.98	512064.69	3	1130.92	1131.270179	1	1	-0.350179
MW-72B	1	2622921.73	512064.19	2	1130.93	1131.286134	1	1	-0.356134
MW-73A	1	2623060.93	511909.15	3	1130.54	1130.75934	1	1	-0.21934
MW-73B	1	2623052.3	511908.7	2	1130.45	1130.774499	1	1	-0.324499
MW-74A	1	2623093.85	511934.84	3	1130.53	1130.77779	1	1	-0.24779
MW-74B	1	2623085.26	511934.8	2	1130.53	1130.792031	1	1	-0.262031
MW-75A	1	2623130	511962.35	3	1130.54	1130.79773	1	1	-0.25773
MW-75B	1	2623120.34	511961.81	2	1130.57	1130.809965	1	1	-0.239965
MW-76A	1	2623158.64	511983.32	3	1130.56	1130.811738	1	1	-0.251738
MW-76B	1	2623148.91	511982.59	2	1130.71	1130.821991	1	1	-0.111991
MW-77A	1	2623192.11	512008.01	3	1130.62	1130.829751	1	1	-0.209751
MW-77B	1	2623180.56	512007.28	2	1130.64	1130.840112	1	1	-0.200112

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Name	Time	X	Y	Layer	Observed	Computed	Weight	Group	Residual
MW-78A	1	2623223.84	512032.75	3	1130.67	1130.849776	1	1	-0.179776
MW-78B	1	2623213.77	512031.3	2	1130.64	1130.855645	1	1	-0.215645
MW-79A	1	2610432.14	492336.21	3	1100.37	1099.993376	1	1	0.376624
MW-79B	1	2610428.14	492345.18	2	1100.38	1099.964214	1	1	0.415786
MW-80A	1	2610925.54	492067.12	3	1100.13	1099.743462	1	1	0.386538
MW-80B	1	2610916.24	492064.59	2	1100.08	1099.786627	1	1	0.293373
MW-81A	1	2611637.99	492369.38	3	1100.3	1100.439009	1	1	-0.139009
MW-81B	1	2611635.91	492360.36	2	1100.39	1100.425222	1	1	-0.035222
MW-82A	1	2619288.65	493318.05	3	1098.21	1098.460094	1	1	-0.250094
MW-82B	1	2619284.94	493325.47	2	1098.26	1098.462746	1	1	-0.202746
MW-83A	1	2621924.08	495274.66	3	1094.74	1094.906182	1	1	-0.166182
MW-83B	1	2621921.79	495302.77	2	1094.66	1094.890356	1	1	-0.230356
MW-84A	1	2624277.77	495685.51	3	1093.9	1094.069236	1	1	-0.169236
MW-84B	1	2624272.04	495712.9	2	1094.37	1094.098471	1	1	0.271529
MW-85A	1	2628326.53	494439.02	3	1087.57	1087.787521	1	1	-0.217521
MW-85B	1	2628315.15	494449.81	2	1087.62	1087.800172	1	1	-0.180172
MW-86A	1	2631939.21	493759.74	3	1081.8	1081.827355	1	1	-0.027355
MW-86B	1	2631933.61	493758.65	2	1081.8	1081.840024	1	1	-0.040024
MW-87A	1	2635039.81	491898.03	3	1074.14	1073.972476	1	1	0.167524
MW-87B	1	2635035.21	491900.97	2	1074.13	1073.961281	1	1	0.168719
MW-88A	1	2637643.92	494045.13	3	1075.22	1074.634477	1	1	0.585523
MW-88B	1	2637639.18	494044.21	2	1075.22	1074.617377	1	1	0.602623
MW-89A	1	2610430.84	494253.88	3	1104.92	1104.674301	1	1	0.245699
MW-89B	1	2610408.69	494254.1	2	1104.77	1104.611796	1	1	0.158204
MW-90A	1	2611235.54	494302.04	3	1105.4	1105.318608	1	1	0.081392
MW-90B	1	2611226.6	494297.96	2	1105.06	1105.257631	1	1	-0.197631
MW-91A	1	2612076.97	494323	3	1105.27	1105.447794	1	1	-0.177794
MW-91B	1	2612067.85	494317.53	2	1105.12	1105.427707	1	1	-0.307707
MW-92A	1	2610047.26	492722.58	3	1100.88	1100.575011	1	1	0.304989
MW-92B	1	2610047.8	492733.82	2	1101.03	1100.50601	1	1	0.52399
MW-93A	1	2612162.89	493551.29	3	1104.14	1104.107023	1	1	0.032977
MW-93B	1	2612154.07	493546.8	2	1104.1	1104.097713	1	1	0.002287
MW-95A	1	2617552.81	494508.64	3	1101.27	1101.361896	1	1	-0.091896
MW-95B	1	2617546.97	494508.01	2	1101.33	1101.367006	1	1	-0.037006
MW-96A	1	2621468.23	493387.73	3	1095.37	1095.662724	1	1	-0.292724
MW-96B	1	2621468.23	493387.8	2	1095.43	1095.661516	1	1	-0.231516
MW-97A	1	2623938.04	493492.83	3	1093.52	1093.693374	1	1	-0.173374
MW-97B	1	2623932.7	493492.45	2	1093.6	1093.699058	1	1	-0.099058
MW-98A	1	2626495.3	493604.94	3	1090.97	1091.151822	1	1	-0.181822
MW-98B	1	2626488.71	493605.28	2	1091.05	1091.16178	1	1	-0.11178
MW-99A	1	2627117.43	498780.95	3	1092.41	1092.440959	1	1	-0.030959
MW-99B	1	2627118.41	498787.93	2	1092.41	1092.450896	1	1	-0.040896
N.Keiser	1	2632144.97	495084.13	3	1081.29	1081.181956	1	1	0.108044
N.Wann	1	2642527.93	520660.55	3	1103.92	1103.199998	1	1	0.720002
OW-02	1	2607882.8	499737.42	3	1115.56	1115.797972	1	1	-0.237972
OW-03	1	2607936.15	499790.42	3	1115.66	1115.812322	1	1	-0.152322
OW-04	1	2607936.23	499764.72	3	1115.78	1115.770824	1	1	0.009176
OW-05	1	2634934.82	495184.29	3	1070.88	1069.578772	1	1	1.301228
OW-06	1	2634884.33	495208.11	3	1072.52	1071.344213	1	1	1.175787
OW-08	1	2634786.34	495194.19	3	1073.51	1072.539102	1	1	0.970898
OW-09	1	2634937.8	495134.36	3	1072.66	1070.768199	1	1	1.891801
OW-10	1	2635084.86	495206.73	3	1073.57	1071.835262	1	1	1.734738
OW-100	1	2628885.6	496489.5	3	1086.22	1086.277804	1	1	-0.057804
OW-101	1	2622907.33	509987.52	3	1122.26	1122.676301	1	1	-0.416301
OW-102	1	2623025.62	510070.3	3	1123.79	1124.062014	1	1	-0.272014
OW-103	1	2623370.57	510291.27	3	1126.04	1125.641141	1	1	0.398859
OW-104	1	2622969.37	509760.45	3	1123.08	1123.202134	1	1	-0.122134
OW-105	1	2623170.6	509450.3	3	1123.29	1123.356593	1	1	-0.066593
OW-11	1	2635254.36	495167.81	3	1074.15	1072.944936	1	1	1.205064
OW-12	1	2636332.13	495279.48	3	1075.18	1074.470873	1	1	0.709127
OW-13	1	2634929.33	495121.8	3	1072.74	1071.104358	1	1	1.635642
OW-14	1	2634937.07	494987.77	3	1073.72	1072.239281	1	1	1.480719
OW-15	1	2634948.12	494788.06	3	1074.05	1072.726499	1	1	1.323501
OW-16	1	2633480.01	495159.25	3	1076.57	1076.110227	1	1	0.459773

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Name	Time	X	Y	Layer	Observed	Computed	Weight	Group	Residual
OW-17	1	2607999.94	499877.66	3	1115.94	1115.859432	1	1	0.080568
OW-18	1	2608114.43	499884.02	3	1115.72	1115.675244	1	1	0.044756
OW-19	1	2608709.98	499902.62	3	1114.46	1114.033201	1	1	0.426799
OW-20	1	2607954.58	499696.42	3	1115.57	1115.639968	1	1	-0.069968
OW-21	1	2607936.83	499559.45	3	1115.11	1115.452231	1	1	-0.342231
OW-22	1	2608019.74	499355.14	3	1115.2	1115.061774	1	1	0.138226
OW-24	1	2629552.06	496984.5	3	1084.36	1085.460505	1	1	-1.100505
OW-25	1	2629511.42	496932.08	3	1084.86	1085.480089	1	1	-0.620089
OW-26	1	2629214.17	496664.05	3	1086.14	1085.849057	1	1	0.290943
OW-27	1	2629582.05	496942.21	3	1084.59	1085.391254	1	1	-0.801254
OW-28	1	2629581.52	496898	3	1084.45	1085.366273	1	1	-0.916273
OW-30	1	2629965.06	497303.88	3	1085.17	1085.468458	1	1	-0.298458
OW-31	1	2624242.96	497898.99	3	1095.89	1095.728412	1	1	0.161588
OW-32	1	2624139.95	497845.07	3	1095.94	1095.803451	1	1	0.136549
OW-33	1	2623750.57	497669.79	3	1095.92	1095.894822	1	1	0.025178
OW-34	1	2624320.18	497868.57	3	1095.41	1095.596373	1	1	-0.186373
OW-35	1	2624360.77	497738.45	3	1095.44	1095.426884	1	1	0.013116
OW-36	1	2624413	497337.59	3	1095.08	1094.993901	1	1	0.086099
OW-37	1	2624838.27	498178.35	3	1094.86	1094.925153	1	1	-0.065153
OW-38	1	2621733.08	496294.86	3	1091.1	1089.389815	1	1	1.710185
OW-39	1	2621620.02	496212.33	3	1093.5	1092.911182	1	1	0.588818
OW-40	1	2621297.36	495975.58	3	1095.06	1094.859918	1	1	0.200082
OW-41	1	2621816.64	496281.9	3	1090.22	1091.92103	1	1	-1.70103
OW-42	1	2621899.7	496169.43	3	1092.58	1093.129903	1	1	-0.549903
OW-43	1	2622135.38	495845.76	3	1094.35	1094.322141	1	1	0.027859
OW-44	1	2622302.63	496682.05	3	1095.48	1094.81348	1	1	0.66652
OW-45	1	2619203.17	494842.21	3	1098.84	1098.884036	1	1	-0.044036
OW-46	1	2619059	494783.36	3	1099.12	1099.101622	1	1	0.018378
OW-47	1	2618684.83	494630.88	3	1099.7	1099.723337	1	1	-0.023337
OW-48	1	2619283.37	494800.47	3	1098.83	1098.770602	1	1	0.059398
OW-49	1	2619315.78	494671.87	3	1098.58	1098.73376	1	1	-0.15376
OW-50	1	2619465.62	494300.16	3	1098.46	1098.461276	1	1	-0.001276
OW-51	1	2619790.64	495096.02	3	1097.91	1097.68718	1	1	0.22282
OW-52	1	2610585.6	493033.91	3	1094.64	1096.1781	1	1	-1.5381
OW-53	1	2610555.96	493019.67	3	1096.33	1096.479462	1	1	-0.149462
OW-54	1	2611356.56	493520.93	3	1103.39	1103.050403	1	1	0.339597
OW-55	1	2610821.53	492991.93	3	1093.57	1095.402017	1	1	-1.832017
OW-56	1	2611642.99	493196.43	3	1103.04	1102.985779	1	1	0.054221
OW-57	1	2611768.76	493277.87	3	1103.34	1103.353	1	1	-0.013
OW-58	1	2611366.56	493009.96	3	1101.1	1100.872113	1	1	0.227887
OW-59	1	2611579.97	493019.21	3	1102.12	1102.075231	1	1	0.044769
OW-60	1	2627137.87	497440.67	3	1089.35	1089.383572	1	1	-0.033572
OW-61	1	2627191.65	497571.53	3	1089.91	1090.02391	1	1	-0.11391
OW-62	1	2627351.22	497954.27	3	1090.74	1090.738586	1	1	0.001414
OW-63	1	2627527.96	497841.89	3	1090.29	1090.223302	1	1	0.066698
OW-64	1	2627299.94	497308.27	3	1089.11	1089.208722	1	1	-0.098722
OW-65	1	2627672.94	497146.26	3	1088.65	1088.693172	1	1	-0.043172
OW-66	1	2622938.07	497314.2	3	1095.41	1095.694848	1	1	-0.284848
OW-67	1	2622730.72	497150.23	3	1095.49	1095.606413	1	1	-0.116413
OW-68	1	2622418.58	496526.17	3	1094.94	1094.738341	1	1	0.201659
OW-69	1	2623044.57	497134.81	3	1095.34	1095.496653	1	1	-0.156653
OW-70	1	2623340.91	496845.85	3	1095.26	1095.241537	1	1	0.018463
OW-71	1	2623796.31	497474.1	3	1095.38	1095.615868	1	1	-0.235868
OW-72	1	2620345.78	495292.98	3	1095.15	1095.614157	1	1	-0.464157
OW-73	1	2620217.61	495239.66	3	1095.99	1096.339407	1	1	-0.349407
OW-74	1	2619854.18	494895.06	3	1097.36	1097.570934	1	1	-0.210934
OW-75	1	2620487.46	495139.42	3	1095.8	1095.854286	1	1	-0.054286
OW-76	1	2620657.85	494777.17	3	1096.12	1096.175883	1	1	-0.055883
OW-77	1	2621414.78	495808.38	3	1094.65	1094.797178	1	1	-0.147178
OW-78	1	2609111.28	499977.47	3	1110.73	1109.956571	1	1	0.773429
OW-80	1	2608751.82	499731.59	3	1114.38	1113.940225	1	1	0.439775
OW-81	1	2609233.49	499803.1	3	1113.59	1112.344693	1	1	1.245307
OW-82	1	2609366	499415.33	3	1113.82	1113.625426	1	1	0.194574
OW-83	1	2609754.89	500075.01	3	1115.01	1114.620477	1	1	0.389523

Table 5-2
Residuals from August 2010 Transient
2012 Groundwater Model Report
Former NOP, Mead, Nebraska

Name	Time	X	Y	Layer	Observed	Computed	Weight	Group	Residual
OW-89	1	2632605.05	496433.6	3	1079.91	1079.443251	1	1	0.466749
OW-90	1	2625244.14	498690.84	3	1092.6	1089.887869	1	1	2.712131
PZ-01	1	2632385.13	499049.59	3	1083.91	1084.289274	1	1	-0.379274
PZ-02	1	2631558.74	499022.44	3	1087.31	1086.774504	1	1	0.535496
PZ-03	1	2633505.55	501788.92	3	1086.62	1086.642794	1	1	-0.022794
PZ-04	1	2636059.39	501690.72	3	1082.07	1079.969201	1	1	2.100799
PZ-05	1	2639988.15	502024.73	3	1081.15	1080.163103	1	1	0.986897
PZ-06	1	2636834.71	504539.69	3	1084.99	1083.932192	1	1	1.057808
S.Keiser	1	2632579.63	493968.08	3	1080.41	1080.168631	1	1	0.241369
TH-EW-13	1	2611511.12	493072.65	3	1101.97	1101.998259	1	1	-0.028259
TH-EW-14R1	1	2625268.99	498721.42	3	1092.59	1090.032527	1	1	2.557473
TH-EW-14R2	1	2625871.91	497850	3	1093.64	1093.249921	1	1	0.390079
TH-EW-15	1	2622870.43	509960.21	3	1123.86	1121.610028	1	1	2.249972
TH-EW-16	1	2628310.33	496736.54	3	1086.21	1087.095485	1	1	-0.885485
TV-16	1	2623841.69	492107.27	3	1093.33	1093.489266	1	1	-0.159266
TV-17A	1	2627487.94	482977.99	3	1086.18	1086.403477	1	1	-0.223477

Residual Mean	0.086904
Absoluate Residual Mean	0.503915
Residual Std. Deviation	0.898069
Sum of Squares	325.632183
RMS Error	0.902264
Min. Residual	-4.631873
Max. Residual	7.783461
Number of Observations	400
Range in Observations	112.82
Scaled Residual Std. Deviation	0.80%
Scaled Absolute Residual Mean	0.45%
Scaled RMS Error	0.80%
Scaled Residual Mean	0.08%

Notes:
LPN = Lower Platte North Natural Resources District
Max. = Maximum
Min. = Minimum
M.U.D. = Metropolitan Utilities District
MW = Monitoring Well
NOP = Nebraska Ordnance Plant
OW = Observation Well
PZ = Piezometer
RMS = Root Mean Squared
Std. Dev. = Standard Deviation
TH = Test Hole

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Table 5-3
Residuals from March 2011 Transient
2012 Groundwater Model Report
Former NOP, Mead, Nebraska

Name	Time	X	Y	Layer	Observed	Computed	Weight	Group	Residual
Brabec	215	2618637.5	493130.49	3	1100.48	1099.2383	1	1	1.241691
D.Starns	215	2647807.3	467164.01	3	1054.55	1053.1392	1	1	1.410838
Frahm	215	2626738.8	493304.52	3	1091.68	1090.2138	1	1	1.466203
Hanson	215	2623180.2	493348.86	3	1095.26	1094.6781	1	1	0.58195
LPN_06-01	215	2642292.2	478302.11	3	1064.96	1065.6018	1	1	-0.641765
LPN_06-18	215	2635721.7	504500.62	3	1086.77	1086.3143	1	1	0.455654
LPN_06-19	215	2634208.2	514979.75	3	1105.17	1108.2195	0.5	1	-3.049526
LPN_06-20	215	2631355.1	520347.13	3	1148.83	1140.6556	1	1	8.174433
LPN_06-21	215	2628536.3	525369.84	3	1154.72	1151.8895	1	1	2.830534
M90-01	215	2640590.8	488958.8	3	1072.34	1070.9303	1	1	1.409721
M90-02	215	2645833.3	489117.85	3	1071.58	1070.9304	1	1	0.64957
M90-04	215	2640807.9	484163.23	3	1068.45	1068.2897	1	1	0.160325
M90-05R	215	2645266.4	482393.07	3	1065.8	1066.8017	1	1	-1.001686
M90-09	215	2640866.6	478557.35	3	1064.8	1065.6536	1	1	-0.853588
M90-12R	215	2647999	479369.24	3	1063.94	1066.1843	1	1	-2.244285
M90-15	215	2641258.1	472881.56	3	1060.74	1061.7812	1	1	-1.041227
M90-16R	215	2645344.9	473282.19	3	1060.83	1065.1662	1	1	-4.336211
M90-17R	215	2648791.5	473326.64	3	1060.56	1061.8298	1	1	-1.269829
M90-20R	215	2651427.6	470805.41	3	1059.08	1059.0389	1	1	0.041144
M90-21	215	2642068.7	468390.33	3	1057.75	1056.6877	1	1	1.062314
M90-22R	215	2645116.5	467804.04	3	1056.54	1054.9497	1	1	1.59027
M90-23R	215	2649222.5	468585.23	3	1052.7	1053.7712	1	1	-1.071196
M90-24R	215	2650175.6	465992.63	3	1049.43	1050.2556	1	1	-0.825585
M90-26R	215	2652730.9	465392.21	3	1052.47	1053.0863	1	1	-0.616321
M90-36R	215	2653436.8	465017.15	3	1053.34	1053.9301	1	1	-0.590105
M90-37	215	2652867.1	463331.64	3	1052.11	1052.7885	1	1	-0.678518
MUD_94-5	215	2640274.4	514549.3	3	1093.6	1092.4349	1	1	1.165096
MUD_94-6	215	2639186.3	503954.84	3	1083.18	1082.0449	1	1	1.135137
MUD_90-10	215	2645430.5	516093.59	3	1091.19	1090.5143	1	1	0.675713
MUD_94-3	215	2646191.8	498899.86	3	1079.77	1077.9563	1	1	1.813722
MUD_94-4	215	2645711.9	509564.7	3	1084.93	1083.5137	1	1	1.416255
MUD_94-7	215	2643737.3	493588.88	3	1076.26	1074.0603	1	1	2.19972
MW-02A	215	2606800.1	506250.32	3	1135.41	1134.3142	1	1	1.095762
MW-02B	215	2606808.9	506255.48	2	1135.42	1134.3238	1	1	1.096216
MW-03A	215	2607532.3	506223.42	3	1134.5	1133.8387	1	1	0.661303
MW-03B	215	2607542.1	506225.42	2	1134.57	1133.8411	1	1	0.728886
MW-04A	215	2612041.9	506256.77	3	1132.77	1131.6514	1	1	1.118573
MW-04B	215	2612051.4	506259.36	2	1132.74	1131.6582	1	1	1.081773
MW-05A	215	2613044.1	507097.63	3	1133.93	1133.163	1	1	0.766998
MW-05B	215	2613053.9	507097.47	2	1133.83	1133.158	1	1	0.671995
MW-07A	215	2618267.1	507274.83	3	1127.36	1126.3309	1	1	1.029087
MW-07B	215	2618276.5	507276.12	2	1127.39	1126.3198	1	1	1.070247
MW-08A	215	2622864	506814.76	3	1119.34	1119.9559	1	1	-0.615897
MW-08B	215	2622872.1	506820.56	2	1119.35	1119.9589	1	1	-0.608903
MW-09A	215	2623570.8	507435.84	3	1119.67	1120.1927	1	1	-0.522704
MW-09B	215	2623580.3	507436.09	2	1119.88	1120.1841	1	1	-0.30412
MW-100A	215	2629718.8	493770.41	3	1086.28	1085.0292	1	1	1.250814
MW-100B	215	2629718.1	493777.19	2	1086.27	1085.0319	1	1	1.238102
MW-101A	215	2610929.4	491574.12	3	1099.61	1100.3674	1	1	-0.757399
MW-101B	215	2610923.6	491573.82	2	1099.62	1100.3694	1	1	-0.749371
MW-102A	215	2622929.4	514541.24	3	1136.46	1135.6303	1	1	0.829701
MW-102B	215	2622923.4	514540.93	2	1135.75	1135.6435	1	1	0.106491
MW-103A	215	2623590.8	513115.79	3	1132.59	1130.8901	1	1	1.69986
MW-103B	215	2623591.2	513110.25	2	1133.01	1130.8835	1	1	2.126473
MW-104A	215	2634092.2	499205.59	3	1078.57	1079.3175	1	1	-0.747533
MW-104B	215	2634082.8	499205.61	2	1078.55	1079.3301	1	1	-0.780064
MW-104O	215	2634073.9	499205	1	1077.07	1079.2315	1	1	-2.161492
MW-105A	215	2635042	496642.99	3	1075.89	1075.9466	1	1	-0.05661
MW-105B	215	2635042.3	496652.98	2	1075.89	1075.9536	1	1	-0.063602
MW-105O	215	2635040.7	496662.29	1	1071.6	1074.7255	1	1	-3.125531
MW-106A	215	2630544.6	506843.26	3	1101.25	1099.2215	1	1	2.028462
MW-106B	215	2630539.3	506844.1	2	1101.42	1099.2418	1	1	2.178212
MW-107A	215	2631375.7	506138.76	3	1097.38	1095.1077	1	1	2.272272

Table 5-3
Residuals from March 2011 Transient
2012 Groundwater Model Report
Former NOP, Mead, Nebraska

Name	Time	X	Y	Layer	Observed	Computed	Weight	Group	Residual
MW-107B	215	2631374.1	506125.16	2	1097.64	1095.0871	1	1	2.552946
MW-108A	215	2631915.6	505912.28	3	1096.28	1093.5888	1	1	2.691241
MW-108B	215	2631917.1	505899.47	2	1096.72	1093.5697	1	1	3.150288
MW-109A	215	2634807.2	501896.06	3	1084.12	1083.5024	1	1	0.61765
MW-109B	215	2634805.8	501904.25	2	1084.12	1083.5179	1	1	0.602096
MW-109O	215	2634805.2	501911.81	1	1079.81	1081.0878	1	1	-1.277811
MW-10A	215	2607883.8	496858.27	3	1110.72	1111.1323	1	1	-0.412285
MW-10B	215	2607893.7	496858.92	2	1110.74	1111.1301	1	1	-0.390143
MW-11	215	2626486.3	509499.8	3	1125.03	1123.133	1	1	1.896967
MW-110A	215	2634397.7	504432.79	3	1088.62	1088.3242	1	1	0.295808
MW-110B	215	2634397.2	504438.89	2	1088.68	1088.3325	1	1	0.347471
MW-111A	215	2636151.6	499337.97	3	1078.81	1078.3704	1	1	0.439622
MW-111B	215	2636151.8	499348.24	2	1078.85	1078.3822	1	1	0.467834
MW-111O	215	2636152.1	499356.67	1	1077.06	1078.3606	1	1	-1.300638
MW-112A	215	2637365.7	501825.77	3	1081.82	1080.9689	1	1	0.851096
MW-112B	215	2637365.3	501832.67	2	1081.88	1080.9774	1	1	0.902621
MW-113A	215	2637420.1	500472.22	3	1080.33	1079.34	1	1	0.990043
MW-113B	215	2637419.5	500477.68	2	1080.3	1079.3471	1	1	0.952898
MW-114A	215	2637470.6	497206.93	3	1076.83	1075.9152	1	1	0.914814
MW-114B	215	2637465.7	497204.32	2	1076.79	1075.9051	1	1	0.884882
MW-115A	215	2637702.5	495346.88	3	1076.05	1074.9759	1	1	1.074128
MW-115B	215	2637696.4	495346.87	2	1076.06	1074.9764	1	1	1.083633
MW-116A	215	2636335.8	495297.6	3	1075.6	1074.9917	1	1	0.608277
MW-116B	215	2636331.5	495297.24	2	1075.62	1074.9914	1	1	0.628623
MW-117A	215	2631041.4	495048	3	1084.02	1082.8603	1	1	1.159709
MW-117B	215	2631040.5	495053.98	2	1083.98	1082.8646	1	1	1.115388
MW-118A	215	2625905.3	496207.7	3	1092.76	1092.6818	1	1	0.078164
MW-118B	215	2625884.5	496207.84	2	1092.76	1092.7282	1	1	0.031777
MW-119A	215	2607952.6	499580.81	3	1115.69	1115.5907	1	1	0.099344
MW-119B	215	2607941.6	499593.35	2	1115.72	1115.6341	1	1	0.085883
MW-120A	215	2609372.3	499419.07	3	1114.19	1113.3892	1	1	0.800785
MW-120B	215	2609372.7	499438.97	2	1114.18	1113.392	1	1	0.788013
MW-120E	215	2609372.7	499430.79	3	1114.12	1113.3853	1	1	0.734706
MW-121A	215	2609752.8	500071.02	3	1115.37	1114.8083	1	1	0.561733
MW-121B	215	2609779.3	500071.59	2	1115.4	1114.8631	1	1	0.536941
MW-121E	215	2609763.3	500071.29	3	1115.63	1114.828	1	1	0.801991
MW-122A	215	2609240.4	498101.34	2	1112.24	1112.4108	1	1	-0.170795
MW-122B	215	2609232.3	498114.61	2	1112.22	1112.4319	1	1	-0.211948
MW-123A	215	2608677.9	499909.07	3	1114.63	1114.3658	1	1	0.264236
MW-123B	215	2608666	499909.02	2	1114.78	1114.4399	1	1	0.34007
MW-124A	215	2609115.8	501486.16	3	1119.82	1120.1673	1	1	-0.347251
MW-124B	215	2609107.8	501496.31	2	1119.81	1120.2183	1	1	-0.408287
MW-125A	215	2609457.1	500663.23	3	1116.75	1116.6707	1	1	0.079294
MW-125B	215	2609468.1	500661.63	2	1116.67	1116.6711	1	1	-0.001062
MW-126A	215	2607483.6	504504.82	3	1131.09	1130.4024	1	1	0.687632
MW-126B	215	2607482.6	504514.66	2	1131.14	1130.4293	1	1	0.710687
MW-127A	215	2606157.4	506918.35	3	1136.88	1136.1265	1	1	0.753498
MW-127B	215	2606121.7	506931.42	2	1136.97	1136.1868	1	1	0.783245
MW-128A	215	2624836.1	498190.8	2	1095.92	1095.4545	1	1	0.465498
MW-128B	215	2624838.5	498197.84	2	1095.89	1095.4563	1	1	0.433736
MW-129A	215	2627766.4	496542.43	3	1089.01	1087.8544	1	1	1.155563
MW-129B	215	2627771.4	496545.39	2	1089.01	1087.8473	1	1	1.162721
MW-130A	215	2629053.4	496650.27	3	1086.55	1086.004	1	1	0.54599
MW-130B	215	2629059	496659.85	2	1086.66	1085.9962	1	1	0.66385
MW-131A	215	2626341.5	496939.83	3	1092.04	1091.9937	1	1	0.046348
MW-131B	215	2626348.5	496944.69	2	1091.99	1091.9793	1	1	0.01069
MW-132A	215	2625254.6	497254.4	3	1094.24	1094.4634	1	1	-0.223393
MW-132B	215	2625258.2	497261.76	2	1094.16	1094.4634	1	1	-0.303364
MW-133A	215	2622522.7	509720.93	3	1123.59	1123.7115	1	1	-0.121463
MW-133B	215	2622522.7	509729.9	2	1123.76	1123.7256	1	1	0.034398
MW-134A	215	2623417.2	509045.74	3	1122.43	1122.5621	1	1	-0.132137
MW-134B	215	2623413.3	509052.47	2	1122.68	1122.5715	1	1	0.108514
MW-135A	215	2623142.6	509762.33	3	1122.72	1123.0394	1	1	-0.319356

Table 5-3
Residuals from March 2011 Transient
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Former NOP, Mead, Nebraska

Name	Time	X	Y	Layer	Observed	Computed	Weight	Group	Residual
MW-135B	215	2623151	509772.44	2	1122.71	1123.0702	1	1	-0.360155
MW-136A	215	2623054.2	510561.26	3	1125.5	1125.4641	1	1	0.035933
MW-136B	215	2623064.1	510560.7	2	1125.61	1125.4581	1	1	0.15189
MW-136E	215	2623075.9	510559.75	2	1125.83	1125.4474	1	1	0.382554
MW-137A	215	2622837.5	511702.36	3	1130.81	1128.8495	1	1	1.96051
MW-137B	215	2622846.2	511704.35	2	1130.6	1128.8471	1	1	1.752897
MW-137E	215	2622857.1	511706.78	2	1130.63	1128.8409	1	1	1.789149
MW-138A	215	2622366.4	512816.57	3	1133.83	1132.265	1	1	1.565002
MW-138B	215	2622378.1	512817.2	2	1133.84	1132.2535	1	1	1.586459
MW-139A	215	2621290.3	514264.29	3	1136.94	1136.9273	1	1	0.01267
MW-139B	215	2621297	514275.44	2	1136.93	1136.9462	1	1	-0.016182
MW-140A	215	2634717.6	503375.83	3	1086.68	1086.308	1	1	0.372043
MW-140B	215	2634717.2	503383.63	2	1086.79	1086.3211	1	1	0.468864
MW-141A	215	2608446.6	502590.64	3	1124.8	1124.6929	1	1	0.107114
MW-141B	215	2608446.5	502597.16	2	1124.9	1124.7189	1	1	0.181103
MW-141E	215	2608446.5	502604.35	3	1124.89	1124.7369	1	1	0.153147
MW-142A	215	2610573	495594.89	3	1107.71	1107.8245	1	1	-0.114526
MW-142E	215	2610564	495595.06	2	1107.7	1107.8328	1	1	-0.132805
MW-143B	215	2621340	502719.77	2	1110.45	1111.9925	1	1	-1.542475
MW-144A	215	2614012.3	503570.97	3	1124.15	1124.2444	1	1	-0.09442
MW-144E	215	2614019.8	503573.09	3	1124.16	1124.2443	1	1	-0.084259
MW-145A	215	2617407.8	500652.84	3	1112.75	1111.8426	1	1	0.907379
MW-145E	215	2617414.4	500652.99	3	1112.74	1111.8332	1	1	0.90681
MW-146A	215	2618871.7	494899.38	3	1100.04	1099.8739	1	1	0.16608
MW-146B	215	2618871.7	494899.37	2	1100.06	1099.8757	1	1	0.184342
MW-147A	215	2620042.4	494474.75	3	1098.24	1097.8865	1	1	0.353532
MW-147B	215	2620045.2	494471.71	2	1098.26	1097.883	1	1	0.376955
MW-148B	215	2620179.9	504425.78	2	1117.71	1118.7158	1	1	-1.005769
MW-149A	215	2622398.4	502086.76	3	1107.08	1107.6559	1	1	-0.575873
MW-150A	215	2624201.2	499856.55	3	1099.47	1098.1879	1	1	1.282138
MW-150B	215	2624200.8	499864.11	2	1099.53	1098.2018	1	1	1.328185
MW-151A	215	2624392.6	506668.08	3	1115.93	1117.5733	1	1	-1.643253
MW-151B	215	2624386.3	506667.26	2	1115.9	1117.5824	1	1	-1.68237
MW-152B	215	2627865.2	506805.72	2	1108.69	1107.9995	1	1	0.69046
MW-153A	215	2627200.2	504130.22	3	1102.37	1101.9377	1	1	0.432325
MW-153B	215	2627192.9	504129.53	2	1102.38	1101.9611	1	1	0.41894
MW-154A	215	2631170.2	504308.25	3	1094.79	1093.0829	1	1	1.707112
MW-154B	215	2631165.2	504308.2	2	1095.5	1093.0916	1	1	2.4084
MW-155A	215	2629445	502435.45	3	1095.97	1093.6403	1	1	2.329734
MW-155E	215	2629444.9	502444.32	3	1095.92	1093.6551	1	1	2.264865
MW-156A	215	2633019.6	501928.83	3	1088.49	1086.7618	1	1	1.728209
MW-156B	215	2633018.3	501922.48	2	1088.64	1086.7517	1	1	1.888253
MW-157A	215	2632549.3	499117.46	3	1083.59	1082.8814	1	1	0.708551
MW-157B	215	2632559	499118.08	2	1083.58	1082.8525	1	1	0.727478
MW-158A	215	2635279.5	493887.42	3	1074.79	1075.0336	1	1	-0.243595
MW-158B	215	2635272	493887.38	2	1074.74	1075.0383	1	1	-0.2983
MW-159A	215	2629111.8	510307.65	3	1116.46	1113.694	1	1	2.765976
MW-159B	215	2629111.6	510300.52	2	1116.29	1113.6912	1	1	2.598848
MW-16B	215	2604911.7	514026.38	3	1155.77	1152.4342	1	1	3.335842
MW-16C	215	2604917.6	514034.74	2	1155.74	1152.4531	1	1	3.286918
MW-17B	215	2603293	499101.48	3	1121	1121.8513	1	1	-0.851339
MW-18A	215	2629150.3	506832.34	3	1104.08	1103.953	1	1	0.126989
MW-18B	215	2629156.6	506827.46	3	1103.75	1103.914	1	1	-0.164029
MW-18C	215	2629148.5	506821.93	2	1106.81	1103.9285	1	1	2.88148
MW-19B	215	2618429.6	517576.97	3	1148.62	1145.336	1	1	3.283973
MW-20A	215	2616622.5	493189.94	3	1101.13	1101.3724	1	1	-0.242389
MW-20B	215	2616633.4	493191.47	3	1101.14	1101.3643	1	1	-0.224252
MW-20C	215	2616611.4	493187.61	2	1102.88	1101.3818	1	1	1.49818
MW-21A	215	2607121.4	503524.81	3	1129.73	1128.5992	1	1	1.130799
MW-21B	215	2607111.3	503524.05	2	1129.67	1128.6104	1	1	1.059597
MW-22B	215	2606604.5	510403.43	2	1146.16	1144.91	1	1	1.249992
MW-24A	215	2608476.9	501919.83	3	1122.64	1122.3007	1	1	0.339293
MW-24B	215	2608477.7	501909.01	2	1122.92	1122.263	1	1	0.656979

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Name	Time	X	Y	Layer	Observed	Computed	Weight	Group	Residual
MW-25A	215	2608308.4	504875.16	3	1131.15	1130.5744	1	1	0.575639
MW-25B	215	2608308.3	504885.58	2	1131.2	1130.602	1	1	0.597995
MW-27B	215	2611427	508110.55	2	1138.23	1137.1589	1	1	1.0711
MW-28A	215	2612951	502242.71	3	1121.66	1121.3633	1	1	0.296704
MW-28B	215	2612936	502242.26	2	1121.39	1121.3776	1	1	0.012447
MW-29A	215	2614469.8	498383.11	3	1110.68	1110.285	1	1	0.394963
MW-29B	215	2614461	498382.37	2	1110.71	1110.2966	1	1	0.413379
MW-31A	215	2617944	503233.7	3	1119.2	1118.7701	1	1	0.429913
MW-31B	215	2617935.2	503238.63	2	1118.62	1118.8011	1	1	-0.181098
MW-32A	215	2619697.3	499062.26	3	1105.54	1104.3247	1	1	1.215291
MW-32B	215	2619696.9	499069.08	2	1105.53	1104.3426	1	1	1.187424
MW-33A	215	2622410.8	502847.91	3	1108.99	1110.097	1	1	-1.107008
MW-33B	215	2622401.1	502854.78	2	1109.01	1110.1442	1	1	-1.134195
MW-34A	215	2624442.8	498806.3	3	1097.18	1096.3788	1	1	0.801208
MW-34B	215	2624443.1	498814.11	2	1097.15	1096.3863	1	1	0.763723
MW-35A	215	2629595.8	496323.64	3	1085.8	1085.3086	1	1	0.491363
MW-35B	215	2629595.8	496329.37	2	1085.76	1085.3079	1	1	0.452103
MW-38A	215	2638131.9	496248.57	3	1076.39	1075.4207	1	1	0.969253
MW-39A	215	2640062.3	499304.69	3	1079.01	1077.607	1	1	1.403022
MW-40A	215	2623018.6	511963.35	3	1131.53	1129.2654	1	1	2.264625
MW-40B	215	2623006.8	511962.76	2	1131.09	1129.2823	1	1	1.807702
MW-41A	215	2624371.5	512001.33	3	1130.64	1127.5665	1	1	3.073512
MW-41B	215	2624361.8	512001.37	2	1130.64	1127.5866	1	1	3.053418
MW-42A	215	2629385.2	501582.56	3	1095.25	1092.2679	1	1	2.982119
MW-42B	215	2629385.3	501592.64	2	1095.28	1092.2874	1	1	2.992641
MW-43A	215	2629243.1	504317.91	3	1099.15	1096.5111	1	1	2.638921
MW-43B	215	2629244.2	504328.2	2	1099.15	1096.5266	1	1	2.623367
MW-44A	215	2632953.7	500415.12	3	1084.54	1083.3602	1	1	1.179827
MW-44B	215	2632954.9	500426.32	2	1084.09	1083.3556	1	1	0.734439
MW-46A	215	2637464.9	499387.37	3	1078.86	1078.1092	1	1	0.750786
MW-46B	215	2637464.4	499396.68	2	1078.88	1078.1199	1	1	0.760124
MW-52A	215	2627012.6	508784.57	3	1119.18	1119.1242	1	1	0.055837
MW-52B	215	2627004.2	508778.94	2	1119.12	1119.1126	1	1	0.007427
MW-53A	215	2627897.8	508169.88	3	1110.7	1112.1045	1	1	-1.404532
MW-53B	215	2627885.4	508166.61	2	1112.52	1112.1312	1	1	0.388806
MW-54A	215	2627893.8	508858.25	3	1112.65	1115.4178	1	1	-2.767752
MW-54B	215	2627883.9	508855.98	2	1115.06	1115.4785	1	1	-0.418516
MW-55A	215	2628135.4	508377.66	3	1110.81	1112.2933	1	1	-1.483275
MW-55B	215	2628125.9	508374.22	2	1111.07	1112.3134	1	1	-1.243356
MW-56A	215	2628206	508215.32	3	1110.16	1111.4942	1	1	-1.334192
MW-56B	215	2628195.3	508217.29	2	1111.75	1111.5336	1	1	0.216361
MW-57B	215	2607621.5	516363.44	2	1159.09	1154.6523	1	1	4.437741
MW-60A	215	2624702.8	489585.15	3	1092.83	1092.0709	1	1	0.759136
MW-61A	215	2608656	492900.05	3	1102.72	1103.4062	1	1	-0.686196
MW-61B	215	2608644.4	492898.6	2	1102.67	1103.4129	1	1	-0.742929
MW-65A	215	2613203.1	506090.52	3	1131.69	1130.5236	1	1	1.166414
MW-65B	215	2613193.3	506091.23	2	1131.63	1130.5373	1	1	1.092691
MW-66B	215	2613268.3	506027.61	2	1130.5	1130.3271	1	1	0.172908
MW-71B	215	2613382.6	506090.27	2	1131.45	1130.392	1	1	1.058037
MW-72A	215	2622931	512064.69	3	1130.78	1129.6164	1	1	1.163622
MW-72B	215	2622921.7	512064.19	2	1130.79	1129.6324	1	1	1.157598
MW-73A	215	2623060.9	511909.15	3	1130.42	1129.0919	1	1	1.328081
MW-73B	215	2623052.3	511908.7	2	1130.37	1129.1045	1	1	1.265546
MW-74A	215	2623093.9	511934.84	3	1130.43	1129.1133	1	1	1.316663
MW-74B	215	2623085.3	511934.8	2	1130.3	1129.1265	1	1	1.173489
MW-75A	215	2623130	511962.35	3	1130.36	1129.1362	1	1	1.223822
MW-75B	215	2623120.3	511961.81	2	1130.66	1129.1489	1	1	1.511132
MW-76A	215	2623158.6	511983.32	3	1130.39	1129.1521	1	1	1.23795
MW-76B	215	2623148.9	511982.59	2	1130.43	1129.1639	1	1	1.266055
MW-77A	215	2623192.1	512008.01	3	1130.4	1129.1713	1	1	1.228653
MW-77B	215	2623180.6	512007.28	2	1130.44	1129.1849	1	1	1.255102
MW-78A	215	2623223.8	512032.75	3	1130.47	1129.1926	1	1	1.277437
MW-78B	215	2623213.8	512031.3	2	1130.47	1129.2031	1	1	1.266902

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MW-79A	215	2610432.1	492336.21	3	1100.15	1100.4456	1	1	-0.295564
MW-79B	215	2610428.1	492345.18	2	1100.13	1100.4435	1	1	-0.313488
MW-80A	215	2610925.5	492067.12	3	1099.95	1100.3933	1	1	-0.443276
MW-80B	215	2610916.2	492064.59	2	1099.88	1100.3822	1	1	-0.502233
MW-81A	215	2611638	492369.38	3	1100.24	1101.1909	1	1	-0.950913
MW-81B	215	2611635.9	492360.36	2	1100.13	1101.1861	1	1	-1.056108
MW-82A	215	2619288.7	493318.05	3	1099.41	1098.5241	1	1	0.885925
MW-82B	215	2619284.9	493325.47	2	1099.45	1098.5336	1	1	0.916448
MW-83A	215	2621924.1	495274.66	3	1096.22	1095.7727	1	1	0.447258
MW-83B	215	2621921.8	495302.77	2	1096.09	1095.7671	1	1	0.322908
MW-84A	215	2624277.8	495685.51	3	1094.65	1094.4803	1	1	0.169736
MW-84B	215	2624272	495712.9	2	1095.08	1094.5018	1	1	0.578206
MW-85A	215	2628326.5	494439.02	3	1088.33	1087.3611	1	1	0.968853
MW-85B	215	2628315.2	494449.81	2	1088.34	1087.3779	1	1	0.962091
MW-86A	215	2631939.2	493759.74	3	1082.18	1080.8347	1	1	1.345273
MW-86B	215	2631933.6	493758.65	2	1082.22	1080.8469	1	1	1.373137
MW-87A	215	2635039.8	491898.03	3	1074.26	1075.3922	1	1	-1.132208
MW-87B	215	2635035.2	491900.97	2	1074.3	1075.3991	1	1	-1.099064
MW-88A	215	2637643.9	494045.13	3	1075.53	1074.4055	1	1	1.124481
MW-88B	215	2637639.2	494044.21	2	1075.52	1074.4062	1	1	1.113791
MW-89A	215	2610430.8	494253.88	3	1105.06	1105.2907	1	1	-0.230696
MW-89B	215	2610408.7	494254.1	2	1104.89	1105.3101	1	1	-0.420139
MW-90A	215	2611235.5	494302.04	3	1105.89	1105.0875	1	1	0.802493
MW-90B	215	2611226.6	494297.96	2	1105.41	1105.085	1	1	0.32503
MW-91A	215	2612077	494323	3	1105.77	1104.9979	1	1	0.772115
MW-91B	215	2612067.9	494317.53	2	1105.59	1104.9932	1	1	0.596796
MW-92A	215	2610047.3	492722.58	3	1100.67	1101.1225	1	1	-0.452527
MW-92B	215	2610047.8	492733.82	2	1100.79	1101.1345	1	1	-0.344486
MW-93A	215	2612162.9	493551.29	3	1104.41	1103.6373	1	1	0.772691
MW-93B	215	2612154.1	493546.8	2	1104.38	1103.6311	1	1	0.748927
MW-94A	215	2617023.2	496428.72	3	1104.64	1104.5133	1	1	0.126699
MW-94B	215	2617023.1	496434.5	2	1104.69	1104.5241	1	1	0.165879
MW-95A	215	2617552.8	494508.64	3	1102.51	1101.6575	1	1	0.852541
MW-95B	215	2617547	494508.01	2	1102.51	1101.6673	1	1	0.842725
MW-96A	215	2621468.2	493387.73	3	1096.73	1096.2674	1	1	0.462647
MW-96B	215	2621468.2	493387.8	2	1096.73	1096.2687	1	1	0.461343
MW-97A	215	2623938	493492.83	3	1094.2	1093.9863	1	1	0.21367
MW-97B	215	2623932.7	493492.45	2	1094.39	1093.9932	1	1	0.396813
MW-98A	215	2626495.3	493604.94	3	1091.69	1090.6551	1	1	1.034908
MW-98B	215	2626488.7	493605.28	2	1091.78	1090.668	1	1	1.112025
MW-99A	215	2627117.4	498780.95	3	1093.14	1091.9354	1	1	1.204618
MW-99B	215	2627118.4	498787.93	2	1093.13	1091.9427	1	1	1.187291
N.Keiser	215	2632145	495084.13	3	1081.41	1080.4743	1	1	0.935706
N.Wann	215	2642527.9	520660.55	3	1104.85	1103.7268	1	1	1.123228
OW-01	215	2607922.9	499747.98	3	1115.79	1115.936	1	1	-0.145959
OW-02	215	2607882.8	499737.42	3	1115.88	1115.9833	1	1	-0.103292
OW-03	215	2607936.2	499790.42	3	1115.98	1115.9892	1	1	-0.009191
OW-04	215	2607936.2	499764.72	3	1115.82	1115.9433	1	1	-0.123269
OW-05	215	2634934.8	495184.29	3	1071.48	1072.8561	1	1	-1.376114
OW-06	215	2634884.3	495208.11	3	1073.12	1073.3614	1	1	-0.241437
OW-08	215	2634786.3	495194.19	3	1074.01	1073.87	1	1	0.14001
OW-09	215	2634937.8	495134.36	3	1073.23	1071.4213	1	1	1.808651
OW-10	215	2635084.9	495206.73	3	1073.91	1073.8281	1	1	0.081914
OW-100	215	2628885.6	496489.5	3	1086.96	1086.2357	1	1	0.724322
OW-101	215	2622907.3	509987.52	3	1121.53	1122.1904	1	1	-0.660401
OW-102	215	2623025.6	510070.3	3	1123.05	1123.3854	1	1	-0.335442
OW-103	215	2623370.6	510291.27	3	1125.41	1124.5289	1	1	0.881137
OW-104	215	2622969.4	509760.45	3	1122.32	1122.6713	1	1	-0.351273
OW-105	215	2623170.6	509450.3	3	1122.73	1122.935	1	1	-0.205015
OW-11	215	2635254.4	495167.81	3	1074.48	1074.2821	1	1	0.197939
OW-12	215	2636332.1	495279.48	3	1075.53	1074.9829	1	1	0.547059
OW-13	215	2634929.3	495121.8	3	1073.32	1070.9049	1	1	2.415149
OW-14	215	2634937.1	494987.77	3	1074.22	1073.5924	1	1	0.627586

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Name	Time	X	Y	Layer	Observed	Computed	Weight	Group	Residual
OW-15	215	2634948.1	494788.06	3	1074.52	1074.313	1	1	0.206982
OW-16	215	2633480	495159.25	3	1076.79	1076.6249	1	1	0.165109
OW-17	215	2607999.9	499877.66	3	1116.26	1116.0381	1	1	0.221888
OW-18	215	2608114.4	499884.02	3	1115.96	1115.836	1	1	0.124031
OW-19	215	2608710	499902.62	3	1114.72	1114.2231	1	1	0.496901
OW-20	215	2607954.6	499696.42	3	1115.87	1115.7922	1	1	0.077834
OW-21	215	2607936.8	499559.45	3	1115.4	1115.5787	1	1	-0.178692
OW-22	215	2608019.7	499355.14	3	1115.53	1115.0958	1	1	0.434208
OW-24	215	2629552.1	496984.5	3	1084.97	1083.9393	1	1	1.030712
OW-25	215	2629511.4	496932.08	3	1085.53	1084.4964	1	1	1.033641
OW-26	215	2629214.2	496664.05	3	1086.84	1085.7216	1	1	1.118389
OW-27	215	2629582.1	496942.21	3	1085.19	1084.4938	1	1	0.696184
OW-28	215	2629581.5	496898	3	1085.31	1084.6903	1	1	0.619659
OW-30	215	2629965.1	497303.88	3	1086.1	1085.45	1	1	0.650028
OW-31	215	2624243	497898.99	3	1096.86	1095.8832	1	1	0.976769
OW-32	215	2624140	497845.07	3	1096.87	1095.94	1	1	0.929972
OW-33	215	2623750.6	497669.79	3	1096.82	1096.1289	1	1	0.691089
OW-34	215	2624320.2	497868.57	3	1096.39	1095.7873	1	1	0.60274
OW-35	215	2624383.5	497738.45	3	1096.43	1095.6394	1	1	0.790577
OW-36	215	2624413	497337.59	3	1095.94	1095.3627	1	1	0.577274
OW-37	215	2624838.3	498178.35	3	1095.9	1095.4433	1	1	0.456673
OW-38	215	2621733.1	496294.86	3	1092.57	1091.9093	1	1	0.660733
OW-39	215	2621620	496212.33	3	1094.88	1094.6858	1	1	0.194187
OW-40	215	2621297.4	495975.58	3	1096.54	1096.2112	1	1	0.32885
OW-41	215	2621816.6	496281.9	3	1091.74	1093.9454	1	1	-2.205388
OW-42	215	2621899.7	496169.43	3	1093.99	1094.8033	1	1	-0.813275
OW-43	215	2622135.4	495845.76	3	1095.7	1095.4048	1	1	0.295153
OW-44	215	2622302.6	496682.05	3	1096.41	1095.8089	1	1	0.601141
OW-45	215	2619203.2	494842.21	3	1100.08	1099.2808	1	1	0.799247
OW-46	215	2619059	494783.36	3	1100.35	1099.4816	1	1	0.868439
OW-47	215	2618684.8	494630.88	3	1100.95	1100.035	1	1	0.915046
OW-48	215	2619283.4	494800.47	3	1100.07	1099.139	1	1	0.930981
OW-49	215	2619315.8	494671.87	3	1099.82	1099.0418	1	1	0.77818
OW-50	215	2619465.6	494300.16	3	1099.67	1098.6789	1	1	0.991065
OW-51	215	2619790.6	495096.02	3	1099.15	1098.3749	1	1	0.775106
OW-52	215	2610585.6	493033.91	3	1093.15	1095.8175	1	1	-2.667548
OW-53	215	2610556	493019.67	3	1095.14	1096.7451	1	1	-1.605147
OW-54	215	2611356.6	493520.93	3	1103.35	1102.9243	1	1	0.425654
OW-55	215	2610821.5	492991.93	3	1091.96	1095.5375	1	1	-3.577503
OW-56	215	2611643	493196.43	3	1103.1	1102.8055	1	1	0.294534
OW-57	215	2611768.8	493277.87	3	1103.46	1103.0359	1	1	0.424093
OW-58	215	2611366.6	493009.96	3	1100.87	1101.2801	1	1	-0.410071
OW-59	215	2611580	493019.21	3	1102.01	1102.1201	1	1	-0.110119
OW-60	215	2627137.9	497440.67	3	1089.87	1088.7095	1	1	1.160453
OW-61	215	2627191.7	497571.53	3	1090.56	1089.426	1	1	1.133957
OW-62	215	2627351.2	497954.27	3	1091.49	1090.1715	1	1	1.318512
OW-63	215	2627528	497841.89	3	1091	1089.6508	1	1	1.349235
OW-64	215	2627299.9	497308.27	3	1089.97	1088.5494	1	1	1.420621
OW-65	215	2627672.9	497146.26	3	1089.47	1088.3292	1	1	1.140803
OW-66	215	2622938.1	497314.2	3	1096.24	1096.0435	1	1	0.196456
OW-67	215	2622730.7	497150.23	3	1096.31	1095.9284	1	1	0.381567
OW-68	215	2622418.6	496526.17	3	1095.88	1095.6395	1	1	0.2405
OW-69	215	2623044.6	497134.81	3	1096.12	1095.8879	1	1	0.232105
OW-70	215	2623340.9	496845.85	3	1095.99	1095.659	1	1	0.331047
OW-71	215	2623796.3	497474.1	3	1096.22	1095.9228	1	1	0.297226
OW-72	215	2620345.8	495292.98	3	1096.55	1096.8586	1	1	-0.308605
OW-73	215	2620217.6	495239.66	3	1097.36	1097.4293	1	1	-0.069335
OW-74	215	2619854.2	494895.06	3	1098.63	1098.2174	1	1	0.412601
OW-75	215	2620487.5	495139.42	3	1097.18	1096.9241	1	1	0.255861
OW-76	215	2620657.9	494777.17	3	1097.49	1097.0123	1	1	0.47768
OW-77	215	2621414.8	495808.38	3	1096.12	1096.033	1	1	0.087009
OW-78	215	2609111.3	499977.47	3	1111.12	1110.2325	1	1	0.887541
OW-79	215	2608989.6	499915.27	3	1113.12	1112.1298	1	1	0.990231

Table 5-3
Residuals from March 2011 Transient
2012 Groundwater Model Report
Former NOP, Mead, Nebraska

Name	Time	X	Y	Layer	Observed	Computed	Weight	Group	Residual
OW-81	215	2609233.5	499803.1	3	1113.75	1112.253	1	1	1.496986
OW-82	215	2609366	499415.33	3	1114.25	1113.3867	1	1	0.863313
OW-83	215	2609754.9	500075.01	3	1115.59	1114.8229	1	1	0.767126
OW-89	215	2632605.1	496433.6	3	1080.13	1079.9925	1	1	0.137456
OW-90	215	2625244.1	498690.84	3	1093.67	1091.2682	1	1	2.4018
OW-92	215	2625155.8	498583.33	3	1095.4	1093.8691	1	1	1.530934
OW-93	215	2625291.1	498721.87	3	1093.42	1092.1939	1	1	1.226122
OW-94	215	2625433.5	498611.46	3	1095.2	1093.8271	1	1	1.372873
OW-95	215	2625755.7	498358.54	3	1094.89	1093.8533	1	1	1.036661
OW-96	215	2628354	496783.72	3	1088.24	1086.6062	1	1	1.633819
OW-97	215	2628423	496909.51	3	1087.85	1086.9384	1	1	0.911647
OW-98	215	2628617.4	497268.67	3	1088.19	1087.242	1	1	0.948043
OW-99	215	2628520.5	496667.07	3	1087.47	1086.62	1	1	0.850004
PV-37	215	2644077	514703.4	3	1091.01	1089.5729	1	1	1.43707
PV-38	215	2642740.1	516679.62	3	1095.03	1093.5455	1	1	1.484463
PV-39	215	2635348.7	501827.54	3	1083.02	1082.608	1	1	0.412032
PV-40	215	2645297.7	502916.41	3	1081.57	1080.5375	1	1	1.032486
PV-41	215	2642173.8	514040.5	3	1091.12	1089.9093	1	1	1.210738
PZ-01	215	2632385.1	499049.59	3	1084.18	1083.2815	1	1	0.898518
PZ-02	215	2631558.7	499022.44	3	1087.4	1085.1929	1	1	2.207147
PZ-03	215	2633505.6	501788.92	3	1086.98	1085.6098	1	1	1.370247
PZ-04	215	2636059.4	501690.72	3	1082.58	1081.723	1	1	0.857036
PZ-05	215	2639988.2	502024.73	3	1081.54	1079.841	1	1	1.699035
PZ-06	215	2636834.7	504539.69	3	1085.57	1084.6961	1	1	0.87388
PZ-13	215	2633396.4	499150.91	3	1079.55	1080.5229	1	1	-0.972893
S.Keiser	215	2632579.6	493968.08	3	1080.58	1079.3176	1	1	1.26238
TH-EW-12	215	2610738.3	493102.14	3	1079.07	1081.5179	1	1	-2.447931
TH-EW-13	215	2611511.1	493072.65	3	1101.82	1102.0491	1	1	-0.229122
TH-EW-14F	215	2625269	498721.42	3	1093.52	1091.4119	1	1	2.10808
TH-EW-14F	215	2625871.9	497850	3	1094.57	1093.5014	1	1	1.068632
TH-EW-15	215	2622870.4	509960.21	3	1123.02	1121.2678	1	1	1.75221
TH-EW-16	215	2628310.3	496736.54	3	1087.31	1086.1575	1	1	1.152487
TV-16	215	2623841.7	492107.27	3	1094.34	1093.7248	1	1	0.615158
TV-17A	215	2627487.9	482977.99	3	1088.12	1085.5704	1	1	2.549615

Residual Mean	0.558175
Absoluate Residual Mean	0.958659
Residual Std. Deviation	1.145989
Sum of Squares	669.43789
RMS Error	1.274696
Min. Residual	-4.336211
Max. Residual	8.174433
Number of Observations	412
Range in Observations	109.66
Scaled Residual Std. Deviation	1.05%
Scaled Absolute Residual Mean	0.87%
Scaled RMS Error	1.16%
Scaled Residual Mean	0.51%

Notes:
Res. = Residual
Max. = Maximum
Min. = Minimum
Std. Dev. = Standard Deviation
RMS = Root Mean Squared
LPN = Lower Platte North Natural Resources District
M.U.D. = Metropolitan Utilities District
NOP = Nebraska Ordnance Plant
MW = Monitoring Well
OW = Observation Well
PZ = Piezometer
TH = Test Hole

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Table 5-4
Residuals from August 2011 Transient
2012 Groundwater Model Report
Former NOP, Mead, Nebraska

Name	Time	X	Y	Layer	Observed	Computed	Weight	Group	Residual
Brabec	365	2618637.5	493130.49	3	1100.9	1100.1219	1	1	0.778069
D.Starns	365	2647807.3	467164.01	3	1053.45	1054.0086	1	1	-0.558609
Frahm	365	2626738.8	493304.52	3	1091.88	1090.75	1	1	1.130045
Hanson	365	2623180.2	493348.86	3	1093.89	1095.5309	1	1	-1.640926
LPN_06-01	365	2642292.2	478302.11	3	1064.86	1066.4305	1	1	-1.570488
LPN_06-18	365	2635721.7	504500.62	3	1085.76	1087.5493	1	1	-1.789275
LPN_06-19	365	2634208.2	514979.75	3	1102.98	1109.3332	0.5	1	-6.353227
LPN_06-20	365	2631355.1	520347.13	3	1149.6	1139.9607	1	1	9.639291
LPN_06-21	365	2628536.3	525369.84	3	1153.78	1152.1333	1	1	1.646684
M90-01	365	2640590.8	488958.8	3	1071.44	1071.7471	1	1	-0.307081
M90-02	365	2645833.3	489117.85	3	1070.89	1071.8815	1	1	-0.991453
M90-04	365	2640807.9	484163.23	3	1067.71	1069.2167	1	1	-1.50667
M90-09	365	2640866.6	478557.35	3	1064.19	1066.7411	1	1	-2.551096
M90-15	365	2641258.1	472881.56	3	1059.85	1063.2377	1	1	-3.387727
M90-21	365	2642068.7	468390.33	3	1057.72	1057.8422	1	1	-0.122185
M90-37	365	2652867.1	463331.64	3	1051.51	1052.8209	1	1	-1.310936
MUD_94-5	365	2640274.4	514549.3	3	1092.54	1092.974	1	1	-0.434011
MUD_94-6	365	2639186.3	503954.84	3	1081.92	1083.7044	1	1	-1.784383
MUD_90-1(	365	2645430.5	516093.59	3	1089.76	1089.9881	1	1	-0.228094
MUD_94-3	365	2646191.8	498899.86	3	1079.25	1078.9566	1	1	0.293392
MUD_94-4	365	2645711.9	509564.7	3	1082.97	1084.3148	1	1	-1.344761
MUD_94-7	365	2643737.3	493588.88	3	1075.33	1074.7411	1	1	0.588882
MW-02A	365	2606800.1	506250.32	3	1135.88	1135.0437	1	1	0.836333
MW-03A	365	2607532.3	506223.42	3	1134.71	1134.4841	1	1	0.225862
MW-04A	365	2612041.9	506256.77	3	1132.98	1132.0397	1	1	0.940264
MW-05A	365	2613044.1	507097.63	3	1134.5	1133.7759	1	1	0.724095
MW-07A	365	2618267.1	507274.83	3	1127.39	1126.989	1	1	0.401003
MW-08A	365	2622864	506814.76	3	1119.15	1120.5488	1	1	-1.398756
MW-09A	365	2623570.8	507435.84	3	1119.62	1120.6971	1	1	-1.077117
MW-100A	365	2629718.8	493770.41	3	1086.21	1085.6143	1	1	0.595728
MW-101A	365	2610929.4	491574.12	3	1099.81	1100.7578	1	1	-0.947819
MW-102A	365	2622929.4	514541.24	3	1137.03	1135.9471	1	1	1.082947
MW-103A	365	2623590.8	513115.79	3	1133.24	1131.2564	1	1	1.98358
MW-104A	365	2634092.2	499205.59	3	1078.48	1079.5188	1	1	-1.038753
MW-104O	365	2634073.9	499205	1	1077.65	1079.0134	1	1	-1.363415
MW-105A	365	2635042	496642.99	3	1075.45	1076.2296	1	1	-0.779602
MW-105O	365	2635040.7	496662.29	1	1071.65	1074.8857	1	1	-3.235667
MW-106A	365	2630544.6	506843.26	3	1100.8	1099.477	1	1	1.32304
MW-106B	365	2630539.3	506844.1	2	1100.73	1099.4958	1	1	1.234186
MW-107A	365	2631375.7	506138.76	3	1096.36	1095.6106	1	1	0.749394
MW-107B	365	2631374.1	506125.16	2	1097.33	1095.5903	1	1	1.7397
MW-108A	365	2631915.6	505912.28	3	1095.23	1094.2318	1	1	0.998163
MW-108B	365	2631917.1	505899.47	2	1096.39	1094.2134	1	1	2.17661
MW-109A	365	2634807.2	501896.06	3	1083.44	1084.1395	1	1	-0.699455
MW-109O	365	2634805.2	501911.81	1	1078.76	1081.1266	1	1	-2.366596
MW-10A	365	2607883.8	496858.27	3	1110.87	1111.7983	1	1	-0.928336
MW-11	365	2626486.3	509499.8	3	1124.74	1123.2069	1	1	1.533098
MW-110A	365	2634397.7	504432.79	3	1087.71	1089.3286	1	1	-1.618551
MW-111A	365	2636151.6	499337.97	3	1078.14	1078.9158	1	1	-0.775842
MW-111B	365	2636151.8	499348.24	2	1078.19	1078.9269	1	1	-0.736924
MW-111O	365	2636152.1	499356.67	1	1075.37	1078.4836	1	1	-3.113605
MW-112A	365	2637365.7	501825.77	3	1080.78	1082.2086	1	1	-1.4286
MW-112B	365	2637365.3	501832.67	2	1080.94	1082.2178	1	1	-1.277835
MW-113A	365	2637420.1	500472.22	3	1079.39	1080.407	1	1	-1.016962
MW-113B	365	2637419.5	500477.68	2	1079.38	1080.4147	1	1	-1.034673
MW-114A	365	2637470.6	497206.93	3	1076.34	1076.7727	1	1	-0.4327
MW-115A	365	2637702.5	495346.88	3	1075.36	1075.8677	1	1	-0.507679
MW-116A	365	2636335.8	495297.6	3	1074.91	1075.663	1	1	-0.753011
MW-116B	365	2636331.5	495297.24	2	1074.91	1075.6613	1	1	-0.751261
MW-117A	365	2631041.4	495048	3	1083.7	1083.3817	1	1	0.31835
MW-118A	365	2625905.3	496207.7	3	1093.22	1093.561	1	1	-0.341041
MW-119A	365	2607952.6	499580.81	3	1116.39	1116.829	1	1	-0.439036
MW-120A	365	2609372.3	499419.07	3	1115.02	1115.3198	1	1	-0.299754
MW-120E	365	2609372.7	499430.79	3	1115.02	1115.3391	1	1	-0.319097

Table 5-4
Residuals from August 2011 Transient
2012 Groundwater Model Report
Former NOP, Mead, Nebraska

Name	Time	X	Y	Layer	Observed	Computed	Weight	Group	Residual
MW-121A	365	2609752.8	500071.02	3	1116.97	1116.5796	1	1	0.390365
MW-122A	365	2609240.4	498101.34	2	1112.67	1113.3956	1	1	-0.72563
MW-124A	365	2609115.8	501486.16	3	1120.54	1121.2627	1	1	-0.722662
MW-124B	365	2609107.8	501496.31	2	1120.49	1121.3089	1	1	-0.818919
MW-125A	365	2609457.1	500663.23	3	1118.14	1118.2048	1	1	-0.064785
MW-126A	365	2607483.6	504504.82	3	1131.5	1131.197	1	1	0.302957
MW-127A	365	2606157.4	506918.35	3	1137.25	1136.834	1	1	0.415968
MW-128A	365	2624836.1	498190.8	2	1096.42	1096.468	1	1	-0.047977
MW-129A	365	2627766.4	496542.43	3	1089.04	1088.4291	1	1	0.61095
MW-130A	365	2629053.4	496650.27	3	1086.48	1086.5092	1	1	-0.029156
MW-131A	365	2626341.5	496939.83	3	1092.34	1092.7904	1	1	-0.450366
MW-131B	365	2626348.5	496944.69	2	1092.34	1092.7741	1	1	-0.434087
MW-132A	365	2625254.6	497254.4	3	1094.77	1095.4343	1	1	-0.664298
MW-133A	365	2622522.7	509720.93	3	1124.33	1124.5694	1	1	-0.239363
MW-133B	365	2622522.7	509729.9	2	1124.51	1124.586	1	1	-0.075967
MW-134A	365	2623417.2	509045.74	3	1122.88	1123.2729	1	1	-0.392931
MW-134B	365	2623413.3	509052.47	2	1122.94	1123.2846	1	1	-0.344594
MW-135A	365	2623142.6	509762.33	3	1123.46	1123.8512	1	1	-0.391246
MW-135B	365	2623151	509772.44	2	1123.49	1123.8848	1	1	-0.39478
MW-136A	365	2623054.2	510561.26	3	1126.05	1126.2602	1	1	-0.21016
MW-137A	365	2622837.5	511702.36	3	1131.54	1129.4445	1	1	2.095505
MW-138A	365	2622366.4	512816.57	3	1134.53	1132.6971	1	1	1.832862
MW-139A	365	2621290.3	514264.29	3	1137.63	1137.252	1	1	0.377965
MW-140A	365	2634717.6	503375.83	3	1085.96	1087.2266	1	1	-1.266577
MW-141A	365	2608446.6	502590.64	3	1125.45	1125.6178	1	1	-0.16782
MW-142A	365	2610573	495594.89	3	1108.29	1108.2894	1	1	0.000621
MW-143B	365	2621340	502719.77	2	1110.86	1113.3123	1	1	-2.452323
MW-144A	365	2614012.3	503570.97	3	1124.65	1125.1767	1	1	-0.526698
MW-145A	365	2617407.8	500652.84	3	1113.2	1112.9648	1	1	0.235233
MW-146A	365	2618871.7	494899.38	3	1100.88	1101.0579	1	1	-0.177865
MW-147A	365	2620042.4	494474.75	3	1099.12	1099.0973	1	1	0.022736
MW-148B	365	2620179.9	504425.78	2	1117.85	1119.6809	1	1	-1.830859
MW-149A	365	2622398.4	502086.76	3	1107.49	1108.9445	1	1	-1.454516
MW-150A	365	2624201.2	499856.55	3	1100.03	1099.2089	1	1	0.821059
MW-151A	365	2624392.6	506668.08	3	1115.78	1117.9343	1	1	-2.154292
MW-152B	365	2627865.2	506805.72	2	1108.76	1108.3877	1	1	0.37234
MW-153A	365	2627200.2	504130.22	3	1102.13	1102.4219	1	1	-0.291944
MW-154A	365	2631170.2	504308.25	3	1094.23	1093.5605	1	1	0.66949
MW-154B	365	2631165.2	504308.2	2	1094.9	1093.5682	1	1	1.331842
MW-155A	365	2629445	502435.45	3	1095.64	1093.9118	1	1	1.72825
MW-156A	365	2633019.6	501928.83	3	1088.2	1087.3947	1	1	0.805268
MW-156B	365	2633018.3	501922.48	2	1088.33	1087.384	1	1	0.94604
MW-157A	365	2632549.3	499117.46	3	1083.53	1083.1358	1	1	0.394209
MW-158A	365	2635279.5	493887.42	3	1074.22	1075.7086	1	1	-1.488629
MW-158B	365	2635272	493887.38	2	1074.2	1075.7116	1	1	-1.511609
MW-159A	365	2629111.8	510307.65	3	1115.97	1114.0078	1	1	1.9622
MW-16B	365	2604911.7	514026.38	3	1156.47	1152.492	1	1	3.97803
MW-17B	365	2603293	499101.48	3	1121.09	1123.1154	1	1	-2.02539
MW-18A	365	2629150.3	506832.34	3	1103.38	1104.202	1	1	-0.821959
MW-18B	365	2629156.6	506827.46	3	1103.04	1104.1614	1	1	-1.121409
MW-18C	365	2629148.5	506821.93	2	1106.67	1104.1764	1	1	2.493581
MW-19B	365	2618429.6	517576.97	3	1149.43	1145.6703	1	1	3.759746
MW-20B	365	2616633.4	493191.47	3	1101.52	1102.2773	1	1	-0.757262
MW-21A	365	2607121.4	503524.81	3	1130.37	1129.5301	1	1	0.839913
MW-22B	365	2606604.5	510403.43	2	1147.34	1145.3872	1	1	1.952798
MW-24A	365	2608476.9	501919.83	3	1123.25	1123.3189	1	1	-0.068921
MW-25A	365	2608308.4	504875.16	3	1131.28	1131.1599	1	1	0.120123
MW-28A	365	2612951	502242.71	3	1121.85	1122.3517	1	1	-0.501703
MW-29A	365	2614469.8	498383.11	3	1111.04	1111.2788	1	1	-0.238777
MW-29B	365	2614461	498382.37	2	1111.15	1111.2889	1	1	-0.138938
MW-31A	365	2617944	503233.7	3	1119.35	1119.8212	1	1	-0.471209
MW-32A	365	2619697.3	499062.26	3	1106.1	1105.5458	1	1	0.55422
MW-33A	365	2622410.8	502847.91	3	1109.1	1111.3484	1	1	-2.248363
MW-34A	365	2624442.8	498806.3	3	1097.68	1097.3993	1	1	0.280718

Table 5-4
Residuals from August 2011 Transient
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Name	Time	X	Y	Layer	Observed	Computed	Weight	Group	Residual
MW-35A	365	2629595.8	496323.64	3	1085.61	1085.8101	1	1	-0.200071
MW-38A	365	2638131.9	496248.57	3	1075.69	1076.2861	1	1	-0.596111
MW-39A	365	2640062.3	499304.69	3	1078.15	1078.7501	1	1	-0.600139
MW-40A	365	2623018.6	511963.35	3	1131.85	1129.8006	1	1	2.049442
MW-41A	365	2624371.5	512001.33	3	1131.19	1127.9058	1	1	3.284187
MW-42A	365	2629385.2	501582.56	3	1094.91	1092.6233	1	1	2.286714
MW-43A	365	2629243.1	504317.91	3	1100.62	1096.7545	1	1	3.86549
MW-44A	365	2632953.7	500415.12	3	1084.48	1083.7068	1	1	0.773165
MW-44B	365	2632954.9	500426.32	2	1083.68	1083.7021	1	1	-0.022054
MW-46A	365	2637464.9	499387.37	3	1078.05	1079.0564	1	1	-1.006363
MW-46B	365	2637464.4	499396.68	2	1078.05	1079.067	1	1	-1.017027
MW-52A	365	2627012.6	508784.57	3	1118.92	1119.3003	1	1	-0.380286
MW-52B	365	2627004.2	508778.94	2	1118.78	1119.2886	1	1	-0.508639
MW-53A	365	2627897.8	508169.88	3	1110.13	1112.4637	1	1	-2.33365
MW-53B	365	2627885.4	508166.61	2	1112.59	1112.4911	1	1	0.098886
MW-54A	365	2627893.8	508858.25	3	1112.11	1115.7016	1	1	-3.591558
MW-54B	365	2627883.9	508855.98	2	1114.79	1115.76	1	1	-0.969996
MW-55A	365	2628135.4	508377.66	3	1110.21	1112.6404	1	1	-2.430369
MW-56A	365	2628206	508215.32	3	1109.54	1111.8503	1	1	-2.310282
MW-56B	365	2628195.3	508217.29	2	1111.9	1111.8899	1	1	0.010138
MW-57B	365	2607621.5	516363.44	2	1159.46	1154.6269	1	1	4.833062
MW-60A	365	2624702.8	489585.15	3	1092.55	1092.7388	1	1	-0.188809
MW-61A	365	2608656	492900.05	3	1102.78	1103.625	1	1	-0.845013
MW-65A	365	2613203.1	506090.52	3	1132.12	1131.0695	1	1	1.050453
MW-66B	365	2613268.3	506027.61	2	1131.1	1130.8801	1	1	0.219905
MW-71B	365	2613382.6	506090.27	2	1131.93	1130.9753	1	1	0.954679
MW-72A	365	2622931	512064.69	3	1131.46	1130.1398	1	1	1.320213
MW-73A	365	2623060.9	511909.15	3	1131	1129.6333	1	1	1.366658
MW-73B	365	2623052.3	511908.7	2	1131	1129.6458	1	1	1.354162
MW-75A	365	2623130	511962.35	3	1131.02	1129.6634	1	1	1.356628
MW-76A	365	2623158.6	511983.32	3	1131.07	1129.6734	1	1	1.396617
MW-77A	365	2623192.1	512008.01	3	1131.08	1129.6855	1	1	1.394475
MW-78A	365	2623223.8	512032.75	3	1131.16	1129.6998	1	1	1.460175
MW-79A	365	2610432.1	492336.21	3	1100.38	1100.8171	1	1	-0.437145
MW-80A	365	2610925.5	492067.12	3	1100.13	1100.7859	1	1	-0.655872
MW-80B	365	2610916.2	492064.59	2	1100.09	1100.7701	1	1	-0.68008
MW-81A	365	2611638	492369.38	3	1100.54	1101.6778	1	1	-1.137816
MW-81B	365	2611635.9	492360.36	2	1100.42	1101.67	1	1	-1.249972
MW-82A	365	2619288.7	493318.05	3	1099.99	1099.4681	1	1	0.521852
MW-83A	365	2621924.1	495274.66	3	1097.21	1097.2584	1	1	-0.04839
MW-83B	365	2621921.8	495302.77	2	1097.27	1097.2621	1	1	0.007886
MW-84A	365	2624277.8	495685.51	3	1095.36	1095.545	1	1	-0.184961
MW-84B	365	2624272	495712.9	2	1095.82	1095.5687	1	1	0.251251
MW-85A	365	2628326.5	494439.02	3	1088.32	1087.9579	1	1	0.36215
MW-86A	365	2631939.2	493759.74	3	1081.72	1081.3211	1	1	0.398933
MW-87A	365	2635039.8	491898.03	3	1074.03	1076.2786	1	1	-2.248646
MW-87B	365	2635035.2	491900.97	2	1073.98	1076.2849	1	1	-2.30485
MW-88A	365	2637643.9	494045.13	3	1074.81	1075.4279	1	1	-0.617893
MW-89A	365	2610430.8	494253.88	3	1105.38	1105.7946	1	1	-0.414587
MW-90A	365	2611235.5	494302.04	3	1106.18	1105.6057	1	1	0.574309
MW-91A	365	2612077	494323	3	1106.09	1105.5878	1	1	0.502152
MW-92A	365	2610047.3	492722.58	3	1100.88	1101.4889	1	1	-0.608909
MW-93A	365	2612162.9	493551.29	3	1104.74	1104.2639	1	1	0.476089
MW-94A	365	2617023.2	496428.72	3	1105.26	1105.5962	1	1	-0.33616
MW-95A	365	2617552.8	494508.64	3	1103.11	1102.6998	1	1	0.410187
MW-95B	365	2617547	494508.01	2	1103.11	1102.7088	1	1	0.401193
MW-96A	365	2621468.2	493387.73	3	1097.25	1097.3324	1	1	-0.082428
MW-97A	365	2623938	493492.83	3	1094.71	1094.7293	1	1	-0.019334
MW-97B	365	2623932.7	493492.45	2	1094.73	1094.7369	1	1	-0.0069
MW-98A	365	2626495.3	493604.94	3	1091.9	1091.2528	1	1	0.647202
MW-99A	365	2627117.4	498780.95	3	1093.16	1092.5466	1	1	0.613406
MW-99B	365	2627118.4	498787.93	2	1093.14	1092.5537	1	1	0.586302
N.Keiser	365	2632145	495084.13	3	1081.09	1080.8725	1	1	0.217507
N.Wann	365	2642527.9	520660.55	3	1103.82	1103.7557	1	1	0.064318

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Name	Time	X	Y	Layer	Observed	Computed	Weight	Group	Residual
OW-05	365	2634934.8	495184.29	3	1070.07	1073.2868	1	1	-3.216793
OW-06	365	2634884.3	495208.11	3	1071.93	1073.7446	1	1	-1.814571
OW-08	365	2634786.3	495194.19	3	1073.03	1074.2042	1	1	-1.174229
OW-09	365	2634937.8	495134.36	3	1072.04	1071.963	1	1	0.076962
OW-10	365	2635084.9	495206.73	3	1073.13	1074.2224	1	1	-1.092408
OW-100	365	2628885.6	496489.5	3	1086.78	1086.7559	1	1	0.024105
OW-101	365	2622907.3	509987.52	3	1122.34	1122.9713	1	1	-0.631339
OW-103	365	2623370.6	510291.27	3	1126.14	1125.309	1	1	0.830988
OW-104	365	2622969.4	509760.45	3	1123.07	1123.4872	1	1	-0.4172
OW-105	365	2623170.6	509450.3	3	1123.38	1123.7284	1	1	-0.348373
OW-11	365	2635254.4	495167.81	3	1073.76	1074.6881	1	1	-0.9281
OW-12	365	2636332.1	495279.48	3	1074.82	1075.6535	1	1	-0.83346
OW-13	365	2634929.3	495121.8	3	1071.67	1071.4841	1	1	0.185891
OW-14	365	2634937.1	494987.77	3	1073.25	1073.9969	1	1	-0.746881
OW-15	365	2634948.1	494788.06	3	1073.67	1074.7035	1	1	-1.033482
OW-16	365	2633480	495159.25	3	1076.34	1076.8089	1	1	-0.46889
OW-18	365	2608114.4	499884.02	3	1116.94	1117.2021	1	1	-0.262125
OW-22	365	2608019.7	499355.14	3	1116.21	1116.3112	1	1	-0.101241
OW-24	365	2629552.1	496984.5	3	1084.81	1084.4168	1	1	0.393199
OW-25	365	2629511.4	496932.08	3	1085.33	1084.9755	1	1	0.354492
OW-26	365	2629214.2	496664.05	3	1086.72	1086.2204	1	1	0.499649
OW-27	365	2629582.1	496942.21	3	1085.05	1084.9658	1	1	0.084174
OW-28	365	2629581.5	496898	3	1085.12	1085.1631	1	1	-0.043103
OW-30	365	2629965.1	497303.88	3	1085.88	1085.8277	1	1	0.052256
OW-31	365	2624243	497898.99	3	1097.53	1096.9436	1	1	0.586446
OW-32	365	2624140	497845.07	3	1097.54	1097.0116	1	1	0.528407
OW-33	365	2623750.6	497669.79	3	1097.58	1097.2506	1	1	0.329421
OW-34	365	2624320.2	497868.57	3	1097.03	1096.8416	1	1	0.188366
OW-35	365	2624383.5	497738.45	3	1097.1	1096.6914	1	1	0.408632
OW-36	365	2624413	497337.59	3	1096.52	1096.421	1	1	0.099033
OW-37	365	2624838.3	498178.35	3	1096.37	1096.4569	1	1	-0.08685
OW-38	365	2621733.1	496294.86	3	1094	1094.6048	1	1	-0.604824
OW-39	365	2621620	496212.33	3	1096.24	1096.768	1	1	-0.528013
OW-40	365	2621297.4	495975.58	3	1097.67	1097.928	1	1	-0.258026
OW-41	365	2621816.6	496281.9	3	1093.13	1096.1582	1	1	-3.028247
OW-42	365	2621899.7	496169.43	3	1095.31	1096.759	1	1	-1.449028
OW-43	365	2622135.4	495845.76	3	1096.86	1097.0519	1	1	-0.191873
OW-44	365	2622302.6	496682.05	3	1097.55	1097.4188	1	1	0.131237
OW-45	365	2619203.2	494842.21	3	1100.82	1100.487	1	1	0.333031
OW-46	365	2619059	494783.36	3	1101.05	1100.6704	1	1	0.379639
OW-47	365	2618684.8	494630.88	3	1101.64	1101.172	1	1	0.468043
OW-48	365	2619283.4	494800.47	3	1100.8	1100.3464	1	1	0.453582
OW-49	365	2619315.8	494671.87	3	1100.55	1100.2369	1	1	0.313131
OW-50	365	2619465.6	494300.16	3	1100.38	1099.8285	1	1	0.551464
OW-51	365	2619790.6	495096.02	3	1099.97	1099.6377	1	1	0.332305
OW-52	365	2610585.6	493033.91	3	1095.37	1096.6147	1	1	-1.244746
OW-53	365	2610556	493019.67	3	1096.14	1097.4644	1	1	-1.324417
OW-54	365	2611356.6	493520.93	3	1103.74	1103.4978	1	1	0.242151
OW-55	365	2610821.5	492991.93	3	1093.17	1096.3535	1	1	-3.183488
OW-56	365	2611643	493196.43	3	1103.59	1103.3854	1	1	0.204561
OW-57	365	2611768.8	493277.87	3	1103.84	1103.6292	1	1	0.210772
OW-58	365	2611366.6	493009.96	3	1101.3	1101.7977	1	1	-0.497691
OW-59	365	2611580	493019.21	3	1102.44	1102.6627	1	1	-0.222721
OW-60	365	2627137.9	497440.67	3	1089.95	1089.3079	1	1	0.642113
OW-61	365	2627191.7	497571.53	3	1090.63	1090.0187	1	1	0.611325
OW-62	365	2627351.2	497954.27	3	1091.48	1090.7445	1	1	0.735521
OW-63	365	2627528	497841.89	3	1091	1090.2047	1	1	0.79526
OW-64	365	2627299.9	497308.27	3	1090.04	1089.1318	1	1	0.908186
OW-65	365	2627672.9	497146.26	3	1089.48	1088.883	1	1	0.597032
OW-66	365	2622938.1	497314.2	3	1097.25	1097.3692	1	1	-0.119165
OW-67	365	2622730.7	497150.23	3	1097.35	1097.3359	1	1	0.014101
OW-68	365	2622418.6	496526.17	3	1097	1097.2257	1	1	-0.225694
OW-69	365	2623044.6	497134.81	3	1097.14	1097.201	1	1	-0.060964
OW-70	365	2623340.9	496845.85	3	1096.96	1096.9084	1	1	0.051599

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Name	Time	X	Y	Layer	Observed	Computed	Weight	Group	Residual
OW-71	365	2623796.3	497474.1	3	1097.02	1097.0492	1	1	-0.029216
OW-72	365	2620345.8	495292.98	3	1097.52	1097.9729	1	1	-0.452879
OW-73	365	2620217.6	495239.66	3	1098.26	1098.6491	1	1	-0.389066
OW-74	365	2619854.2	494895.06	3	1099.47	1099.4648	1	1	0.005192
OW-75	365	2620487.5	495139.42	3	1098.09	1098.1427	1	1	-0.052697
OW-76	365	2620657.9	494777.17	3	1098.37	1098.2998	1	1	0.07021
OW-77	365	2621414.8	495808.38	3	1097.23	1097.7221	1	1	-0.492065
OW-78	365	2609111.3	499977.47	3	1117.13	1116.424	1	1	0.706012
OW-79	365	2608989.6	499915.27	3	1116.95	1116.3587	1	1	0.591348
OW-80	365	2608751.8	499731.59	3	1116.34	1116.1797	1	1	0.160346
OW-81	365	2609233.5	499803.1	3	1116.07	1116.034	1	1	0.035977
OW-82	365	2609366	499415.33	3	1115.13	1115.3153	1	1	-0.185251
OW-83	365	2609754.9	500075.01	3	1117.21	1116.5895	1	1	0.620512
OW-89	365	2632605.1	496433.6	3	1079.83	1080.2386	1	1	-0.408645
OW-90	365	2625244.1	498690.84	3	1094.05	1092.3234	1	1	1.726632
OW-92	365	2625155.8	498583.33	3	1095.75	1094.8781	1	1	0.871895
OW-93	365	2625291.1	498721.87	3	1093.76	1093.2131	1	1	0.546869
OW-94	365	2625433.5	498611.46	3	1095.57	1094.765	1	1	0.805009
OW-95	365	2625755.7	498358.54	3	1095.24	1094.7065	1	1	0.533511
OW-96	365	2628354	496783.72	3	1088.19	1087.1227	1	1	1.067282
OW-97	365	2628423	496909.51	3	1087.77	1087.4524	1	1	0.31759
OW-98	365	2628617.4	497268.67	3	1088.15	1087.731	1	1	0.419003
OW-99	365	2628520.5	496667.07	3	1087.38	1087.142	1	1	0.23798
PV-37	365	2644077	514703.4	3	1089.78	1089.6242	1	1	0.155806
PV-38	365	2642740.1	516679.62	3	1093.96	1093.6662	1	1	0.293802
PV-39	365	2635348.7	501827.54	3	1082.31	1083.2474	1	1	-0.937397
PV-40	365	2645297.7	502916.41	3	1080.84	1081.746	1	1	-0.905978
PV-41	365	2642173.8	514040.5	3	1089.81	1090.3468	1	1	-0.536777
PZ-01	365	2632385.1	499049.59	3	1083.96	1083.5383	1	1	0.421737
PZ-02	365	2631558.7	499022.44	3	1087.21	1085.4432	1	1	1.766836
PZ-03	365	2633505.6	501788.92	3	1086.51	1086.2488	1	1	0.261248
PZ-13	365	2633396.4	499150.91	3	1079.53	1080.7301	1	1	-1.200123
S.Keiser	365	2632579.6	493968.08	3	1080.03	1079.6506	1	1	0.379448
TH-EW-12	365	2610738.3	493102.14	3	1080.93	1083.522	1	1	-2.591987
TH-EW-13	365	2611511.1	493072.65	3	1102.26	1102.5903	1	1	-0.330256
TH-EW-14F	365	2625269	498721.42	3	1093.87	1092.4561	1	1	1.413919
TH-EW-14F	365	2625871.9	497850	3	1094.92	1094.3466	1	1	0.573382
TH-EW-15	365	2622870.4	509960.21	3	1123.79	1122.0085	1	1	1.781496
TH-EW-16	365	2628310.3	496736.54	3	1087.24	1086.6655	1	1	0.574453
TV-16	365	2623841.7	492107.27	3	1094.45	1094.3503	1	1	0.099687
TV-17A	365	2627487.9	482977.99	3	1087.89	1085.1788	1	1	2.71123

Residual Mean	-0.060143
Absoluate Residual Mean	0.916096
Residual Std. Deviation	1.37155
Sum of Squares	559.77561
RMS Error	1.372868
Min. Residual	-6.353227
Max. Residual	9.639291
Number of Observations	297
Range in Observations	107.95
Scaled Residual Std. Deviation	1.27%
Scaled Absolute Residual Mean	0.85%
Scaled RMS Error	1.27%
Scaled Residual Mean	-0.06%

Notes:
Res. = Residual
Max. = Maximum
Min. = Minimum
Std. Dev. = Standard Deviation
RMS = Root Mean Squared
LPN = Lower Platte North Natural Resources District
M.U.D = Metropolitan Utilities District
NOP = Nebraska Ordnance Plant
MW = Monitoring Well
OW = Observation Well
PZ = Piezometer
TH = Test Hole

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Table 5-5
Residuals from March 2012 Transient
2012 Groundwater Model Report
Former NOP, Mead, Nebraska

Name	Time	X	Y	Layer	Observed	Computed	Weight	Group	Residual
MW-104O	581	2634073.87	499205.00	1	1077.91	1076.8779	1	1	1.032128
MW-105O	581	2635040.67	496662.29	1	1072.13	1074.8172	1	1	-2.687201
MW-109O	581	2634805.17	501911.81	1	1080	1081.1075	1	1	-1.107499
MW-111O	581	2636152.14	499356.67	1	1076.79	1077.1461	1	1	-0.356078
MW-106B	581	2630539.26	506844.10	2	1100.7	1099.2228	1	1	1.477246
MW-107B	581	2631374.08	506125.16	2	1096.88	1095.3743	1	1	1.505717
MW-108B	581	2631917.07	505899.47	2	1095.97	1094.0239	1	1	1.946087
MW-111B	581	2636151.75	499348.24	2	1078.62	1078.5354	1	1	0.084597
MW-112B	581	2637365.30	501832.67	2	1081.58	1082.3197	1	1	-0.739671
MW-113B	581	2637419.51	500477.68	2	1080.04	1080.3717	1	1	-0.331665
MW-116B	581	2636331.54	495297.24	2	1075.18	1075.5166	1	1	-0.336569
MW-122A	581	2609240.41	498101.34	2	1112.54	1113.2307	1	1	-0.690684
MW-124B	581	2609107.79	501496.31	2	1120.52	1121.1417	1	1	-0.621671
MW-128A	581	2624836.13	498190.80	2	1096.42	1096.1764	1	1	0.243567
MW-131B	581	2626348.52	496944.69	2	1092.3	1092.2814	1	1	0.018621
MW-133B	581	2622522.69	509729.90	2	1123.74	1123.5105	1	1	0.229472
MW-134B	581	2623413.31	509052.47	2	1122.43	1122.5626	1	1	-0.132563
MW-135B	581	2623151.02	509772.44	2	1122.65	1122.8371	1	1	-0.187114
MW-143B	581	2621339.98	502719.77	2	1111.24	1113.2665	1	1	-2.026492
MW-148B	581	2620179.92	504425.78	2	1118.42	1119.6964	1	1	-1.276358
MW-152B	581	2627865.21	506805.72	2	1108.12	1107.7098	1	1	0.410159
MW-154B	581	2631165.21	504308.20	2	1095.01	1093.2761	1	1	1.733905
MW-156B	581	2633018.32	501922.48	2	1088.38	1087.0746	1	1	1.305417
MW-158B	581	2635272.00	493887.38	2	1074.46	1075.5939	1	1	-1.133913
MW-18C	581	2629148.53	506821.93	2	1106.05	1103.6467	1	1	2.403283
MW-22B	581	2606604.48	510403.43	2	1147.59	1144.6858	1	1	2.904158
MW-27B	581	2611427.01	508110.55	2	1139.22	1137.1921	1	1	2.027852
MW-29B	581	2614460.98	498382.37	2	1111.16	1111.2573	1	1	-0.097314
MW-44B	581	2632954.90	500426.32	2	1083.73	1083.4222	1	1	0.307823
MW-46B	581	2637464.42	499396.68	2	1078.57	1078.7962	1	1	-0.226248
MW-52B	581	2627004.24	508778.94	2	1117.86	1118.9236	1	1	-1.06363
MW-53B	581	2627885.40	508166.61	2	1111.87	1111.7683	1	1	0.101711
MW-54B	581	2627883.88	508855.98	2	1114.23	1115.1133	1	1	-0.883288
MW-56B	581	2628195.32	508217.29	2	1110.16	1111.1329	1	1	-0.972862
MW-57B	581	2607621.51	516363.44	2	1160.55	1153.9145	1	1	6.635528
MW-66B	581	2613268.32	506027.61	2	1131.27	1130.7018	1	1	0.568159
MW-71B	581	2613382.62	506090.27	2	1132.28	1130.7628	1	1	1.517197
MW-73B	581	2623052.30	511908.70	2	1130.39	1128.8139	1	1	1.576099
MW-80B	581	2610916.24	492064.59	2	1099.81	1100.4122	1	1	-0.602219
MW-81B	581	2611635.91	492360.36	2	1100.08	1101.5045	1	1	-1.424514
MW-83B	581	2621921.79	495302.77	2	1097.17	1096.7922	1	1	0.377825
MW-84B	581	2624272.04	495712.90	2	1095.62	1095.2686	1	1	0.351353
MW-87B	581	2635035.21	491900.97	2	1074.15	1076.108	1	1	-1.958007
MW-95B	581	2617546.97	494508.01	2	1103.3	1102.5115	1	1	0.788535
MW-97B	581	2623932.70	493492.45	2	1094.83	1094.6078	1	1	0.222169
MW-99B	581	2627118.41	498787.93	2	1093.1	1091.9973	1	1	1.102722
Brabec	581	2618637.53	493130.49	3	1101.14	1099.9407	1	1	1.199276
D.Starns	581	2647807.25	467164.01	3	1055.92	1055.5101	1	1	0.409949
Frahm	581	2626738.84	493304.52	3	1091.75	1090.4219	1	1	1.328099
Hanson	581	2623180.17	493348.86	3	1095.78	1095.3532	1	1	0.426789
LPN_06-01	581	2642292.17	478302.11	3	1065.06	1065.9693	1	1	-0.909302
LPN_06-18	581	2635721.74	504500.62	3	1086.54	1087.4213	1	1	-0.881343
LPN_06-19	581	2634208.23	514979.75	3	1104.88	1109.1224	0.5	1	-4.242433
LPN_06-20	581	2631355.09	520347.13	3	1150.01	1138.387	1	1	11.622977
LPN_06-21	581	2628536.27	525369.84	3	1155.28	1151.4147	1	1	3.865339
M90-01	581	2640590.79	488958.80	3	1071.96	1072.2249	1	1	-0.264888
M90-02	581	2645833.34	489117.85	3	1071.34	1072.381	1	1	-1.040957
M90-04	581	2640807.93	484163.23	3	1068.23	1069.0882	1	1	-0.858174
M90-05R	581	2645266.37	482393.07	3	1066.31	1067.1967	1	1	-0.88673
M90-09	581	2640866.61	478557.35	3	1064.65	1066.3137	1	1	-1.663687
M90-12R	581	2647999.03	479369.24	3	1063.83	1065.9968	1	1	-2.166815
M90-15	581	2641258.12	472881.56	3	1060.64	1062.9827	1	1	-2.342728
M90-16R	581	2645344.89	473282.19	3	1061.12	1065.3491	1	1	-4.229132
M90-17R	581	2648791.50	473326.64	3	1060.23	1061.9509	1	1	-1.720891
M90-20R	581	2651427.57	470805.41	3	1058.52	1059.1106	1	1	-0.590588
M90-21	581	2642068.72	468390.33	3	1057.28	1057.9749	1	1	-0.694895
M90-22R	581	2645116.45	467804.04	3	1056.74	1057.0273	1	1	-0.287318
M90-23R	581	2649222.45	468585.23	3	1053.36	1056.2638	1	1	-2.90378
M90-24R	581	2650175.62	465992.63	3	1050.83	1053.7891	1	1	-2.959076
M90-26R	581	2652730.86	465392.21	3	1053.09	1053.9668	1	1	-0.876846
M90-36R	581	2653436.76	465017.15	3	1053.23	1053.9589	1	1	-0.728898
M90-37	581	2652867.09	463331.64	3	1051.86	1052.7461	1	1	-0.886075
MUD_90-10	581	2645430.50	516093.59	3	1091.07	1090.3687	1	1	0.701257
MUD_94-3	581	2646191.75	498899.86	3	1079.27	1079.0446	1	1	0.225413
MUD_94-4	581	2645711.85	509564.70	3	1084.86	1084.5195	1	1	0.34049
MUD_94-5	581	2640274.41	514549.30	3	1093.39	1092.686	1	1	0.70405
MUD_94-6	581	2639186.28	503954.84	3	1082.82	1083.9559	1	1	-1.135936

Table 5-5
Residuals from March 2012 Transient
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Name	Time	X	Y	Layer	Observed	Computed	Weight	Group	Residual
MUD_94-7	581	2643737.28	493588.88	3	1075.93	1075.4193	1	1	0.510672
MW-02A	581	2606800.10	506250.32	3	1135.56	1134.8838	1	1	0.676229
MW-03A	581	2607532.26	506223.42	3	1135.68	1134.354	1	1	1.326035
MW-04A	581	2612041.94	506256.77	3	1133.6	1131.9561	1	1	1.643939
MW-05A	581	2613044.09	507097.63	3	1134.81	1133.3767	1	1	1.433293
MW-07A	581	2618267.10	507274.83	3	1128.01	1126.7999	1	1	1.210071
MW-08A	581	2622863.97	506814.76	3	1119.35	1120.3531	1	1	-1.003086
MW-09A	581	2623570.81	507435.84	3	1119.59	1120.4543	1	1	-0.864326
MW-100A	581	2629718.84	493770.41	3	1086.26	1085.007	1	1	1.253034
MW-101A	581	2610929.39	491574.12	3	1099.55	1100.3705	1	1	-0.820533
MW-102A	581	2622929.38	514541.24	3	1136.7	1135.1536	1	1	1.546408
MW-103A	581	2623590.77	513115.79	3	1132.68	1130.5159	1	1	2.164079
MW-104A	581	2634092.18	499205.59	3	1078.77	1079.063	1	1	-0.292997
MW-105A	581	2635041.98	496642.99	3	1075.73	1076.1238	1	1	-0.393778
MW-106A	581	2630544.55	506843.26	3	1100.64	1099.2047	1	1	1.435345
MW-107A	581	2631375.72	506138.76	3	1096.87	1095.3953	1	1	1.474669
MW-108A	581	2631915.55	505912.28	3	1096.75	1094.0431	1	1	2.706887
MW-109A	581	2634807.18	501896.06	3	1083.88	1083.8976	1	1	-0.017639
MW-10A	581	2607883.83	496858.27	3	1110.82	1111.6529	1	1	-0.832877
MW-11	581	2626486.32	509499.80	3	1123.91	1123.0573	1	1	0.852712
MW-110A	581	2634397.71	504432.79	3	1088.31	1088.9595	1	1	-0.649525
MW-111A	581	2636151.56	499337.97	3	1078.6	1078.5289	1	1	0.071129
MW-112A	581	2637365.72	501825.77	3	1081.52	1082.31	1	1	-0.789962
MW-113A	581	2637420.11	500472.22	3	1079.98	1080.3632	1	1	-0.38318
MW-114A	581	2637470.60	497206.93	3	1076.6	1076.4744	1	1	0.125639
MW-115A	581	2637702.52	495346.88	3	1075.63	1075.6215	1	1	0.008476
MW-116A	581	2636335.80	495297.60	3	1075.15	1075.5179	1	1	-0.367859
MW-117A	581	2631041.42	495048.00	3	1083.87	1082.7801	1	1	1.089905
MW-118A	581	2625905.31	496207.70	3	1093.09	1093.1279	1	1	-0.037919
MW-119A	581	2607952.61	499580.81	3	1116.12	1116.5341	1	1	-0.414102
MW-120A	581	2609372.30	499419.07	3	1114.49	1114.2684	1	1	0.221605
MW-120E	581	2609372.68	499430.79	3	1114.55	1114.2642	1	1	0.28585
MW-121A	581	2609752.79	500071.02	3	1115.79	1115.716	1	1	0.074006
MW-123A	581	2608677.91	499909.07	3	1115.13	1115.2629	1	1	-0.132898
MW-124A	581	2609115.81	501486.16	3	1120.51	1121.0915	1	1	-0.581545
MW-125A	581	2609457.06	500663.23	3	1117.25	1117.5944	1	1	-0.344385
MW-126A	581	2607483.63	504504.82	3	1132.21	1131.0959	1	1	1.11413
MW-127A	581	2606157.41	506918.35	3	1138.32	1136.652	1	1	1.66804
MW-129A	581	2627766.39	496542.43	3	1089.03	1087.7579	1	1	1.272077
MW-130A	581	2629053.38	496650.27	3	1086.49	1085.839	1	1	0.650988
MW-131A	581	2626341.54	496939.83	3	1092.28	1092.2988	1	1	-0.018834
MW-132A	581	2625254.59	497254.40	3	1094.7	1095.0993	1	1	-0.399262
MW-133A	581	2622522.67	509720.93	3	1123.59	1123.499	1	1	0.090976
MW-134A	581	2623417.21	509045.74	3	1122.36	1122.5548	1	1	-0.1948
MW-135A	581	2623142.62	509762.33	3	1122.68	1122.8065	1	1	-0.126472
MW-136A	581	2623054.23	510561.26	3	1125.18	1125.2058	1	1	-0.025848
MW-137A	581	2622837.54	511702.36	3	1130.93	1128.5714	1	1	2.358624
MW-138A	581	2622366.41	512816.57	3	1134.14	1131.9082	1	1	2.231847
MW-139A	581	2621290.29	514264.29	3	1137.52	1136.4868	1	1	1.033181
MW-140A	581	2634717.63	503375.83	3	1086.51	1086.8403	1	1	-0.330348
MW-141A	581	2608446.60	502590.64	3	1125.88	1125.5423	1	1	0.337695
MW-142A	581	2610572.95	495594.89	3	1107.99	1108.4177	1	1	-0.427726
MW-144A	581	2614012.25	503570.97	3	1124.94	1125.0345	1	1	-0.094459
MW-145A	581	2617407.83	500652.84	3	1113.63	1113.0486	1	1	0.581384
MW-146A	581	2618871.66	494899.38	3	1101.04	1100.8562	1	1	0.183767
MW-147A	581	2620042.44	494474.75	3	1099.22	1098.8181	1	1	0.401917
MW-149A	581	2622398.38	502086.76	3	1107.79	1108.8363	1	1	-1.046327
MW-150A	581	2624201.15	499856.55	3	1100.13	1098.9412	1	1	1.188783
MW-151A	581	2624392.64	506668.08	3	1115.88	1117.8766	1	1	-1.996621
MW-153A	581	2627200.19	504130.22	3	1101.97	1101.9259	1	1	0.044058
MW-154A	581	2631170.17	504308.25	3	1094.4	1093.2686	1	1	1.131434
MW-155A	581	2629444.96	502435.45	3	1095.49	1093.5507	1	1	1.939264
MW-156A	581	2633019.60	501928.83	3	1088.31	1087.0857	1	1	1.224313
MW-157A	581	2632549.30	499117.46	3	1083.55	1082.768	1	1	0.78202
MW-158A	581	2635279.53	493887.42	3	1074.48	1075.5911	1	1	-1.111121
MW-159A	581	2629111.80	510307.65	3	1115.57	1113.3832	1	1	2.186793
MW-16B	581	2604911.66	514026.38	3	1157.28	1151.6449	1	1	5.635109
MW-17B	581	2603293.03	499101.48	3	1121.08	1122.9795	1	1	-1.899548
MW-18A	581	2629150.33	506832.34	3	1103.43	1103.6725	1	1	-0.242458
MW-18B	581	2629156.57	506827.46	3	1103.09	1103.6345	1	1	-0.544476
MW-19B	581	2618429.63	517576.97	3	1149.79	1144.9664	1	1	4.823625
MW-20B	581	2616633.43	493191.47	3	1101.68	1101.9845	1	1	-0.304489
MW-21A	581	2607121.37	503524.81	3	1130.74	1129.3544	1	1	1.385599
MW-24A	581	2608476.90	501919.83	3	1123.5	1123.2145	1	1	0.285465
MW-25A	581	2608308.41	504875.16	3	1132.19	1131.1924	1	1	0.99763
MW-28A	581	2612951.02	502242.71	3	1122.4	1122.2914	1	1	0.108561
MW-29A	581	2614469.84	498383.11	3	1111.31	1111.2472	1	1	0.06285

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Name	Time	X	Y	Layer	Observed	Computed	Weight	Group	Residual
MW-31A	581	2617943.95	503233.70	3	1119.92	1119.8908	1	1	0.029194
MW-32A	581	2619697.25	499062.26	3	1106.32	1105.6065	1	1	0.713492
MW-33A	581	2622410.84	502847.91	3	1109.4	1111.2382	1	1	-1.838174
MW-34A	581	2624442.78	498806.30	3	1097.7	1097.124	1	1	0.575982
MW-35A	581	2629595.76	496323.64	3	1085.62	1085.1451	1	1	0.474935
MW-38A	581	2638131.88	496248.57	3	1075.96	1075.9657	1	1	-0.005747
MW-39A	581	2640062.25	499304.69	3	1078.5	1078.4306	1	1	0.069418
MW-40A	581	2623018.62	511963.35	3	1131.3	1128.9718	1	1	2.328242
MW-41A	581	2624371.47	512001.33	3	1130.38	1127.3119	1	1	3.068148
MW-42A	581	2629385.20	501582.56	3	1094.76	1092.1567	1	1	2.603267
MW-43A	581	2629243.07	504317.91	3	1098.56	1096.413	1	1	2.146968
MW-44A	581	2632953.68	500415.12	3	1084.43	1083.4254	1	1	1.004631
MW-46A	581	2637464.94	499387.37	3	1078.55	1078.7875	1	1	-0.237537
MW-52A	581	2627012.55	508784.57	3	1118.02	1118.935	1	1	-0.914962
MW-53A	581	2627897.77	508169.88	3	1109.96	1111.7411	1	1	-1.78106
MW-54A	581	2627893.82	508858.25	3	1111.81	1115.0512	1	1	-3.241203
MW-55A	581	2628135.40	508377.66	3	1110.03	1111.8869	1	1	-1.856858
MW-56A	581	2628206.01	508215.32	3	1109.39	1111.0933	1	1	-1.703262
MW-60A	581	2624702.83	489585.15	3	1092.72	1092.2012	1	1	0.518762
MW-61A	581	2608656.02	492900.05	3	1102.59	1103.3613	1	1	-0.771276
MW-65A	581	2613203.05	506090.52	3	1132.47	1130.8868	1	1	1.583176
MW-72A	581	2622930.98	512064.69	3	1130.94	1129.3155	1	1	1.624481
MW-73A	581	2623060.93	511909.15	3	1130.44	1128.802	1	1	1.63799
MW-74A	581	2623093.85	511934.84	3	1130.4	1128.8221	1	1	1.577936
MW-75A	581	2623130.00	511962.35	3	1130.46	1128.8434	1	1	1.616621
MW-76A	581	2623158.64	511983.32	3	1130.5	1128.8581	1	1	1.641909
MW-77A	581	2623192.11	512008.01	3	1130.5	1128.876	1	1	1.624
MW-78A	581	2623223.84	512032.75	3	1130.58	1128.8957	1	1	1.684267
MW-79A	581	2610432.14	492336.21	3	1100.06	1100.4585	1	1	-0.398502
MW-80A	581	2610925.54	492067.12	3	1099.88	1100.4498	1	1	-0.569789
MW-81A	581	2611637.99	492369.38	3	1100.22	1101.531	1	1	-1.310966
MW-82A	581	2619288.65	493318.05	3	1100.18	1099.2865	1	1	0.893471
MW-83A	581	2621924.08	495274.66	3	1097.13	1096.7949	1	1	0.335145
MW-84A	581	2624277.77	495685.51	3	1095.18	1095.2445	1	1	-0.064505
MW-85A	581	2628326.53	494439.02	3	1088.34	1087.3484	1	1	0.991635
MW-86A	581	2631939.21	493759.74	3	1082.04	1080.8859	1	1	1.154059
MW-87A	581	2635039.81	491898.03	3	1074.18	1076.1023	1	1	-1.922297
MW-88A	581	2637643.92	494045.13	3	1075.06	1075.3747	1	1	-0.314727
MW-89A	581	2610430.84	494253.88	3	1105.15	1105.7477	1	1	-0.597693
MW-90A	581	2611235.54	494302.04	3	1106.06	1105.6416	1	1	0.41841
MW-91A	581	2612076.97	494323.00	3	1106	1105.6	1	1	0.399998
MW-92A	581	2610047.26	492722.58	3	1100.57	1101.1568	1	1	-0.586777
MW-93A	581	2612162.89	493551.29	3	1104.59	1104.2063	1	1	0.383672
MW-94A	581	2617023.16	496428.72	3	1105.47	1105.5095	1	1	-0.03949
MW-95A	581	2617552.81	494508.64	3	1103.28	1102.5026	1	1	0.777441
MW-96A	581	2621468.23	493387.73	3	1097.47	1097.0499	1	1	0.420145
MW-97A	581	2623938.04	493492.83	3	1094.79	1094.6004	1	1	0.189564
MW-98A	581	2626495.30	493604.94	3	1091.85	1090.9045	1	1	0.94546
MW-99A	581	2627117.43	498780.95	3	1093.09	1091.9902	1	1	1.09983
N.Keiser	581	2632144.97	495084.13	3	1081.25	1080.4203	1	1	0.829725
N.Wann	581	2642527.93	520660.55	3	1104.13	1103.0487	1	1	1.081349
OW-05	581	2634934.82	495184.29	3	1070.78	1070.9881	1	1	-0.208065
OW-06	581	2634884.33	495208.11	3	1072.55	1072.6353	1	1	-0.085309
OW-08	581	2634786.34	495194.19	3	1073.4	1073.6803	1	1	-0.280313
OW-09	581	2634937.80	495134.36	3	1072.6	1072.2221	1	1	0.377921
OW-10	581	2635084.86	495206.73	3	1073.41	1073.7121	1	1	-0.302108
OW-100	581	2628885.60	496489.50	3	1086.84	1086.0759	1	1	0.764072
OW-101	581	2622907.33	509987.52	3	1121.47	1121.7417	1	1	-0.27168
OW-102	581	2623025.62	510070.30	3	1123.03	1123.0576	1	1	-0.027573
OW-103	581	2623370.57	510291.27	3	1125.29	1124.2964	1	1	0.993643
OW-104	581	2622969.37	509760.45	3	1122.3	1122.3732	1	1	-0.073185
OW-105	581	2623170.60	509450.30	3	1122.69	1122.8183	1	1	-0.128298
OW-11	581	2635254.36	495167.81	3	1074.02	1074.4121	1	1	-0.392105
OW-12	581	2636332.13	495279.48	3	1075.1	1075.5113	1	1	-0.4113
OW-13	581	2634929.33	495121.80	3	1072.68	1072.5398	1	1	0.140246
OW-14	581	2634937.07	494987.77	3	1073.64	1073.8595	1	1	-0.219542
OW-15	581	2634948.12	494788.06	3	1074.01	1074.5529	1	1	-0.542923
OW-16	581	2633480.01	495159.25	3	1076.52	1076.6379	1	1	-0.11792
OW-18	581	2608114.43	499884.02	3	1116.45	1116.7868	1	1	-0.336829
OW-22	581	2608019.74	499355.14	3	1115.93	1116.0181	1	1	-0.088104
OW-23	581	2607158.35	499656.44	3	1117.2	1117.8513	1	1	-0.651337
OW-25	581	2629511.42	496932.08	3	1085.36	1084.3353	1	1	1.024654
OW-26	581	2629214.17	496664.05	3	1086.68	1085.5553	1	1	1.124732
OW-27	581	2629582.05	496942.21	3	1084.99	1084.3309	1	1	0.659139
OW-28	581	2629581.52	496898.00	3	1085.1	1084.5248	1	1	0.575174
OW-31	581	2624242.96	497898.99	3	1097.49	1096.6822	1	1	0.807783

Table 5-5
Residuals from March 2012 Transient
2012 Groundwater Model Report
Former NOP, Mead, Nebraska

Name	Time	X	Y	Layer	Observed	Computed	Weight	Group	Residual
OW-32	581	2624139.95	497845.07	3	1097.51	1096.7554	1	1	0.754633
OW-33	581	2623750.57	497669.79	3	1097.53	1097.0096	1	1	0.520415
OW-34	581	2624320.18	497868.57	3	1097	1096.5757	1	1	0.424345
OW-35	581	2624383.49	497738.45	3	1097.04	1096.4206	1	1	0.619448
OW-36	581	2624413.00	497337.59	3	1096.59	1096.1433	1	1	0.4467
OW-38	581	2621733.08	496294.86	3	1093.79	1093.0901	1	1	0.699919
OW-39	581	2621620.02	496212.33	3	1096.01	1095.8471	1	1	0.162943
OW-40	581	2621297.36	495975.58	3	1097.61	1097.3224	1	1	0.287596
OW-41	581	2621816.64	496281.90	3	1092.95	1095.112	1	1	-2.162029
OW-42	581	2621899.70	496169.43	3	1095.07	1095.9385	1	1	-0.868477
OW-43	581	2622135.38	495845.76	3	1096.66	1096.4731	1	1	0.186929
OW-44	581	2622302.63	496682.05	3	1097.39	1096.9181	1	1	0.471865
OW-45	581	2619203.17	494842.21	3	1100.96	1100.263	1	1	0.697039
OW-46	581	2619059.00	494783.36	3	1101.25	1100.4553	1	1	0.794695
OW-47	581	2618684.83	494630.88	3	1101.8	1100.9728	1	1	0.827237
OW-48	581	2619283.37	494800.47	3	1100.96	1100.1169	1	1	0.84311
OW-49	581	2619315.78	494671.87	3	1100.71	1100.0058	1	1	0.704227
OW-50	581	2619465.62	494300.16	3	1100.53	1099.5958	1	1	0.934233
OW-51	581	2619790.64	495096.02	3	1100.08	1099.3604	1	1	0.719616
OW-52	581	2610585.60	493033.91	3	1093.18	1096.1958	1	1	-3.015802
OW-53	581	2610555.96	493019.67	3	1095.15	1097.0813	1	1	-1.931284
OW-54	581	2611356.56	493520.93	3	1103.41	1103.4604	1	1	-0.0504
OW-55	581	2610821.53	492991.93	3	1091.83	1095.959	1	1	-4.129049
OW-56	581	2611642.99	493196.43	3	1103.14	1103.3525	1	1	-0.212503
OW-57	581	2611768.76	493277.87	3	1103.53	1103.5911	1	1	-0.061063
OW-58	581	2611366.56	493009.96	3	1100.85	1101.7465	1	1	-0.896549
OW-59	581	2611579.97	493019.21	3	1102.03	1102.638	1	1	-0.608042
OW-60	581	2627137.87	497440.67	3	1089.99	1088.7162	1	1	1.273806
OW-61	581	2627191.65	497571.53	3	1090.67	1089.4173	1	1	1.252725
OW-62	581	2627351.22	497954.27	3	1091.5	1090.1468	1	1	1.353169
OW-63	581	2627527.96	497841.89	3	1091.01	1089.5946	1	1	1.415402
OW-64	581	2627299.94	497308.27	3	1090.05	1088.5144	1	1	1.535644
OW-65	581	2627672.94	497146.26	3	1089.51	1088.2347	1	1	1.275306
OW-66	581	2622938.07	497314.20	3	1097.16	1097.1001	1	1	0.059888
OW-67	581	2622730.72	497150.23	3	1097.23	1097.0236	1	1	0.206404
OW-68	581	2622418.58	496526.17	3	1096.79	1096.7273	1	1	0.062672
OW-69	581	2623044.57	497134.81	3	1097.01	1096.9165	1	1	0.093504
OW-70	581	2623340.91	496845.85	3	1096.78	1096.619	1	1	0.161048
OW-71	581	2623796.31	497474.10	3	1096.94	1096.7996	1	1	0.140435
OW-72	581	2620345.78	495292.98	3	1097.57	1097.6589	1	1	-0.088877
OW-73	581	2620217.61	495239.66	3	1098.35	1098.3326	1	1	0.017361
OW-74	581	2619854.18	494895.06	3	1099.56	1099.1844	1	1	0.375565
OW-75	581	2620487.46	495139.42	3	1098.15	1097.7994	1	1	0.350643
OW-76	581	2620657.85	494777.17	3	1098.41	1097.9534	1	1	0.456607
OW-77	581	2621414.78	495808.38	3	1097.16	1097.1249	1	1	0.035132
OW-78	581	2609111.28	499977.47	3	1111.43	1110.973	1	1	0.457038
OW-79	581	2608989.60	499915.27	3	1113.52	1112.9458	1	1	0.574197
OW-80	581	2608751.82	499731.59	3	1115.03	1114.7724	1	1	0.257554
OW-81	581	2609233.49	499803.10	3	1114.29	1113.0799	1	1	1.210075
OW-82	581	2609366.00	499415.33	3	1114.64	1114.2658	1	1	0.374235
OW-83	581	2609754.89	500075.01	3	1116.02	1115.7309	1	1	0.28912
OW-89	581	2632605.05	496433.60	3	1079.93	1079.8678	1	1	0.062159
OW-90	581	2625244.14	498690.84	3	1094.09	1092.1143	1	1	1.97571
OW-92	581	2625155.78	498583.33	3	1096.82	1094.5794	1	1	2.240556
OW-93	581	2625291.12	498721.87	3	1093.71	1092.9539	1	1	0.756129
OW-94	581	2625433.51	498611.46	3	1095.59	1094.4059	1	1	1.184082
OW-95	581	2625755.73	498358.54	3	1095.23	1094.2864	1	1	0.943574
OW-96	581	2628354.01	496783.72	3	1088.18	1086.4309	1	1	1.749051
OW-97	581	2628422.98	496909.51	3	1087.77	1086.7766	1	1	0.993442
OW-98	581	2628617.39	497268.67	3	1088.13	1087.0845	1	1	1.045467
OW-99	581	2628520.49	496667.07	3	1087.4	1086.4561	1	1	0.943874
PV-37	581	2644077.01	514703.40	3	1091.05	1089.5711	1	1	1.478851
PV-38	581	2642740.13	516679.62	3	1094.8	1093.2384	1	1	1.561553
PV-39	581	2635348.70	501827.54	3	1082.85	1083.0057	1	1	-0.155681
PV-40	581	2645297.73	502916.41	3	1081.01	1081.9962	1	1	-0.98616
PV-41	581	2642173.78	514040.50	3	1091.11	1090.1078	1	1	1.00224
PZ-01	581	2632385.13	499049.59	3	1082.28	1083.1643	1	1	-0.884334
PZ-02	581	2631558.74	499022.44	3	1083.6	1085.0594	1	1	-1.459449
PZ-03	581	2633505.55	501788.92	3	1086.7	1085.9756	1	1	0.72445
PZ-13	581	2633396.43	499150.91	3	1079.69	1080.33	1	1	-0.640035
S.Keiser	581	2632579.63	493968.08	3	1080.42	1079.3555	1	1	1.064463
TH-EW-12	581	2610738.32	493102.14	3	1077.71	1082.6344	1	1	-4.924433
TH-EW-13	581	2611511.12	493072.65	3	1101.85	1102.5626	1	1	-0.712614

Table 5-5
Residuals from March 2012 Transient
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Former NOP, Mead, Nebraska

Name	Time	X	Y	Layer	Observed	Computed	Weight	Group	Residual
TH-EW-14F	581	2625268.99	498721.42	3	1093.87	1092.2358	1	1	1.634249
TH-EW-14F	581	2625871.91	497850.00	3	1094.88	1093.9196	1	1	0.960431
TH-EW-15	581	2622870.43	509960.21	3	1122.94	1120.72	1	1	2.22004
TH-EW-16	581	2628310.33	496736.54	3	1087.23	1085.9604	1	1	1.2696
TV-16	581	2623841.69	492107.27	3	1094.62	1094.1865	1	1	0.433458
TV-17A	581	2627487.94	482977.99	3	1087.75	1084.8446	1	1	2.90545

Residual Mean	0.275124
Absoluate Residual Mean	1.0123
Residual Std. Deviation	1.48701
Sum of Squares	706.65001
RMS Error	1.512248
Min. Residual	-4.92
Max. Residual	11.62
Number of Observations	309
Range in Observations	109.72
Scaled Residual Std. Deviation	1.36%
Scaled Absolute Residual Mean	0.92%
Scaled RMS Error	1.38%
Scaled Residual Mean	0.25%

Notes:
Res. = Residual
Max. = Maximum
Min. = Minimum
Std. Dev. = Standard Deviation
RMS = Root Mean Squared
LPN = Lower Platte North Natural Resources District
M.U.D. = Metropolitan Utilities District
NOP = Nebraska Ordnance Plant
MW = Monitoring Well
OW = Observation Well
PZ = Piezometer
TH = Test Hole

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Table 5-6
Residuals from August 2012 Transient
2012 Groundwater Model Report
Former NOP, Mead, Nebraska

Name	Time	X	Y	Layer	Observed	Computed	Weight	Group	Residual
Brabec	732	2618637.5	493130.49	3	1099.94	1099.5306	1	1	0.40941
D.Starns	732	2647807.3	467164.01	3	1042.89	1050.2071	1	1	-7.317075
Frahm	732	2626738.8	493304.52	3	1090.2	1089.5409	1	1	0.659099
Hanson	732	2623180.2	493348.86	3	1094.71	1094.731	1	1	-0.020978
LPN_06-01	732	2642292.2	478302.11	3	1062.4	1060.3779	1	1	2.022125
LPN_06-18	732	2635721.7	504500.62	3	1082.89	1084.3243	1	1	-1.434288
LPN_06-19	732	2634208.2	514979.75	3	1096.11	1108.8406	0.5	1	-12.730632
LPN_06-20	732	2631355.1	520347.13	3	1148.33	1137.5542	1	1	10.775779
LPN_06-21	732	2628536.3	525369.84	3	1144.46	1150.7847	1	1	-6.324682
M90-01	732	2640590.8	488958.8	3	1068.18	1068.3484	1	1	-0.168367
M90-02	732	2645833.3	489117.85	3	1068.83	1069.2374	1	1	-0.407415
M90-04	732	2640807.9	484163.23	3	1064.92	1064.127	1	1	0.793001
M90-05R	732	2645266.4	482393.07	3	1063.97	1063.2249	1	1	0.745092
M90-09	732	2640866.6	478557.35	3	1061.96	1060.4162	1	1	1.543791
M90-12R	732	2647999	479369.24	3	1059.62	1062.1572	1	1	-2.537174
M90-15	732	2641258.1	472881.56	3	1057.72	1058.4662	1	1	-0.746213
M90-16R	732	2645344.9	473282.19	3	1056.34	1062.4363	1	1	-6.096315
M90-17R	732	2648791.5	473326.64	3	1053.89	1059.2295	1	1	-5.33946
M90-20R	732	2651427.6	470805.41	3	1055.52	1057.2895	1	1	-1.769468
M90-21	732	2642068.7	468390.33	3	1055.17	1054.5347	1	1	0.635287
M90-22R	732	2645116.5	467804.04	3	1046.3	1052.6506	1	1	-6.350636
M90-23R	732	2649222.5	468585.23	3	1037.01	1049.1462	1	1	-12.136159
M90-24R	732	2650175.6	465992.63	3	1041.01	1047.9353	1	1	-6.925255
M90-26R	732	2652730.9	465392.21	3	1048.1	1050.7744	1	1	-2.674397
M90-36R	732	2653436.8	465017.15	3	1050.65	1052.2469	1	1	-1.596912
M90-37	732	2652867.1	463331.64	3	1048.93	1050.8655	1	1	-1.935532
MUD_94-5	732	2640274.4	514549.3	3	1089.54	1089.641	1	1	-0.100988
MUD_94-6	732	2639186.3	503954.84	3	1079.55	1081.2244	1	1	-1.674385
MUD_90-10	732	2645430.5	516093.59	3	1086.96	1087.9623	1	1	-1.002312
MUD_94-3	732	2646191.8	498899.86	3	1077.03	1074.6716	1	1	2.358376
MUD_94-4	732	2645711.9	509564.7	3	1081.98	1083.6227	1	1	-1.642697
MUD_94-7	732	2643737.3	493588.88	3	1072.79	1073.7802	1	1	-0.9902
MW-02A	732	2606800.1	506250.32	3	1135.09	1134.5395	1	1	0.550518
MW-03A	732	2607532.3	506223.42	3	1133.91	1133.8701	1	1	0.039897
MW-04A	732	2612041.9	506256.77	3	1131.88	1131.0991	1	1	0.780866
MW-05A	732	2613044.1	507097.63	3	1133.92	1132.9379	1	1	0.982062
MW-07A	732	2618267.1	507274.83	3	1126.54	1126.0761	1	1	0.463942
MW-08A	732	2622864	506814.76	3	1117.39	1119.1624	1	1	-1.772388
MW-09A	732	2623570.8	507435.84	3	1117.65	1119.0655	1	1	-1.415521
MW-100A	732	2629718.8	493770.41	3	1085.09	1084.2501	1	1	0.839854
MW-101A	732	2610929.4	491574.12	3	1098.13	1098.8664	1	1	-0.736375
MW-102A	732	2622929.4	514541.24	3	1135.68	1134.6269	1	1	1.053061
MW-103A	732	2623590.8	513115.79	3	1131.56	1130.1001	1	1	1.459866
MW-104A	732	2634092.2	499205.59	3	1077.26	1075.238	1	1	2.022039
MW-104O	732	2634073.9	499205	1	1076.57	1072.8797	1	1	3.690346
MW-105A	732	2635042	496642.99	3	1073.69	1071.2422	1	1	2.447791
MW-105O	732	2635040.7	496662.29	1	1070.68	1070.3786	1	1	0.301384
MW-106A	732	2630544.6	506843.26	3	1096.77	1097.9611	1	1	-1.191071
MW-106B	732	2630539.3	506844.1	2	1097.54	1097.9802	1	1	-0.440184
MW-107A	732	2631375.7	506138.76	3	1092.53	1094.087	1	1	-1.55701
MW-107B	732	2631374.1	506125.16	2	1095.63	1094.067	1	1	1.562962
MW-108A	732	2631915.6	505912.28	3	1091.36	1092.6501	1	1	-1.29007
MW-108B	732	2631917.1	505899.47	2	1094.52	1092.6316	1	1	1.888381
MW-109A	732	2634807.2	501896.06	3	1081.11	1080.6223	1	1	0.487738
MW-109O	732	2634805.2	501911.81	1	1080.04	1079.2588	1	1	0.781224
MW-10A	732	2607883.8	496858.27	3	1109.22	1111.1222	1	1	-1.902204
MW-11	732	2626486.3	509499.8	3	1121.63	1122.6181	1	1	-0.988065
MW-110A	732	2634397.7	504432.79	3	1084.64	1086.3188	1	1	-1.678842
MW-111A	732	2636151.6	499337.97	3	1076.07	1073.5816	1	1	2.488357
MW-111B	732	2636151.8	499348.24	2	1076.14	1073.5916	1	1	2.548388
MW-112A	732	2637365.7	501825.77	3	1078.34	1078.7291	1	1	-0.389106
MW-112B	732	2637365.3	501832.67	2	1078.41	1078.7415	1	1	-0.331545
MW-113A	732	2637420.1	500472.22	3	1077.02	1076.0134	1	1	1.006585
MW-113B	732	2637419.5	500477.68	2	1077.01	1076.0257	1	1	0.984336
MW-114A	732	2637470.6	497206.93	3	1073.85	1070.8804	1	1	2.969553
MW-115A	732	2637702.5	495346.88	3	1072.66	1069.7255	1	1	2.934549
MW-116A	732	2636335.8	495297.6	3	1072.5	1069.6399	1	1	2.860059

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Name	Time	X	Y	Layer	Observed	Computed	Weight	Group	Residual
MW-116B	732	2636331.5	495297.24	2	1072.51	1069.6416	1	1	2.868415
MW-117A	732	2631041.4	495048	3	1082.68	1081.4609	1	1	1.219085
MW-118A	732	2625905.3	496207.7	3	1092.62	1093.09	1	1	-0.470022
MW-119A	732	2607952.6	499580.81	3	1115.98	1117.1452	1	1	-1.165249
MW-120A	732	2609372.3	499419.07	3	1114.36	1115.3907	1	1	-1.030718
MW-120E	732	2609372.7	499430.79	3	1114.38	1115.4009	1	1	-1.020883
MW-121A	732	2609752.8	500071.02	3	1115.69	1116.6928	1	1	-1.002771
MW-122A	732	2609240.4	498101.34	2	1111.84	1113.4009	1	1	-1.560866
MW-123A	732	2608677.9	499909.07	3	1115.37	1116.6194	1	1	-1.249422
MW-124A	732	2609115.8	501486.16	3	1120.34	1121.4867	1	1	-1.146667
MW-124B	732	2609107.8	501496.31	2	1120.33	1121.5297	1	1	-1.199687
MW-125A	732	2609457.1	500663.23	3	1116.29	1118.4569	1	1	-2.166942
MW-126A	732	2607483.6	504504.82	3	1130.78	1130.727	1	1	0.053033
MW-127A	732	2606157.4	506918.35	3	1136.57	1136.2833	1	1	0.286698
MW-128A	732	2624836.1	498190.8	2	1095.96	1096.2027	1	1	-0.242671
MW-129A	732	2627766.4	496542.43	3	1088.48	1087.4819	1	1	0.998059
MW-130A	732	2629053.4	496650.27	3	1085.57	1085.2562	1	1	0.313821
MW-131A	732	2626341.5	496939.83	3	1091.81	1092.2636	1	1	-0.453609
MW-131B	732	2626348.5	496944.69	2	1091.84	1092.2451	1	1	-0.405129
MW-132A	732	2625254.6	497254.4	3	1094.27	1095.113	1	1	-0.84299
MW-133A	732	2622522.7	509720.93	3	1122.49	1122.9811	1	1	-0.491074
MW-133B	732	2622522.7	509729.9	2	1122.85	1122.9948	1	1	-0.144777
MW-134A	732	2623417.2	509045.74	3	1120.92	1121.6451	1	1	-0.725097
MW-134B	732	2623413.3	509052.47	2	1120.95	1121.657	1	1	-0.706971
MW-135A	732	2623142.6	509762.33	3	1121.42	1122.1984	1	1	-0.778424
MW-135B	732	2623151	509772.44	2	1121.41	1122.231	1	1	-0.820971
MW-136A	732	2623054.2	510561.26	3	1126.59	1124.8111	1	1	1.778868
MW-137A	732	2622837.5	511702.36	3	1129.95	1128.2611	1	1	1.688936
MW-138A	732	2622366.4	512816.57	3	1133.33	1131.5745	1	1	1.755533
MW-139A	732	2621290.3	514264.29	3	1136.63	1136.1247	1	1	0.505272
MW-140A	732	2634717.6	503375.83	3	1083.25	1083.7425	1	1	-0.492525
MW-141A	732	2608446.6	502590.64	3	1125.13	1125.498	1	1	-0.368014
MW-142A	732	2610573	495594.89	3	1106.12	1107.0266	1	1	-0.906597
MW-143B	732	2621340	502719.77	2	1110.55	1113.2831	1	1	-2.733144
MW-144A	732	2614012.3	503570.97	3	1124.04	1124.9571	1	1	-0.917139
MW-145A	732	2617407.8	500652.84	3	1113.32	1113.1667	1	1	0.153335
MW-146A	732	2618871.7	494899.38	3	1100.48	1100.8993	1	1	-0.419342
MW-147A	732	2620042.4	494474.75	3	1098.61	1098.7882	1	1	-0.178211
MW-148B	732	2620179.9	504425.78	2	1117.21	1119.1323	1	1	-1.922302
MW-149A	732	2622398.4	502086.76	3	1107.03	1108.8992	1	1	-1.869223
MW-150A	732	2624201.2	499856.55	3	1099.5	1098.9789	1	1	0.521106
MW-151A	732	2624392.6	506668.08	3	1113.74	1116.1363	1	1	-2.396307
MW-152B	732	2627865.2	506805.72	2	1107	1107.13	1	1	-0.13002
MW-153A	732	2627200.2	504130.22	3	1099.98	1101.273	1	1	-1.292954
MW-154A	732	2631170.2	504308.25	3	1090.7	1092.017	1	1	-1.317044
MW-154B	732	2631165.2	504308.2	2	1091.48	1092.0251	1	1	-0.545109
MW-155A	732	2629445	502435.45	3	1093.26	1092.451	1	1	0.808967
MW-156A	732	2633019.6	501928.83	3	1088.72	1085.2782	1	1	3.441845
MW-156B	732	2633018.3	501922.48	2	1086.67	1085.2659	1	1	1.404082
MW-157A	732	2632549.3	499117.46	3	1081.85	1080.5334	1	1	1.31656
MW-158A	732	2635279.5	493887.42	3	1071.75	1070.8044	1	1	0.945606
MW-158B	732	2635272	493887.38	2	1072	1070.808	1	1	1.19204
MW-159A	732	2629111.8	510307.65	3	1112.54	1113.098	1	1	-0.558032
MW-16B	732	2604911.7	514026.38	3	1155.37	1150.8338	1	1	4.53617
MW-17B	732	2603293	499101.48	3	1120.72	1122.4363	1	1	-1.716343
MW-18A	732	2629150.3	506832.34	3	1100.3	1102.8402	1	1	-2.540163
MW-18B	732	2629156.6	506827.46	3	1099.96	1102.7969	1	1	-2.836942
MW-18C	732	2629148.5	506821.93	2	1104.12	1102.8137	1	1	1.306314
MW-19B	732	2618429.6	517576.97	3	1147.85	1144.6767	1	1	3.173328
MW-20B	732	2616633.4	493191.47	3	1100.74	1101.9085	1	1	-1.168518
MW-21A	732	2607121.4	503524.81	3	1129.7	1129.0856	1	1	0.61438
MW-22B	732	2606604.5	510403.43	2	1146.86	1144.3842	1	1	2.475825
MW-24A	732	2608476.9	501919.83	3	1123.09	1123.4184	1	1	-0.328426
MW-25A	732	2608308.4	504875.16	3	1130.32	1130.4235	1	1	-0.103539
MW-27B	732	2611427	508110.55	2	1138.18	1136.7599	1	1	1.420089
MW-28A	732	2612951	502242.71	3	1121.35	1122.3129	1	1	-0.962939
MW-29A	732	2614469.8	498383.11	3	1110.75	1111.3826	1	1	-0.632645
MW-29B	732	2614461	498382.37	2	1110.79	1111.3897	1	1	-0.599731
MW-31A	732	2617944	503233.7	3	1118.94	1119.4767	1	1	-0.536694

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Name	Time	X	Y	Layer	Observed	Computed	Weight	Group	Residual
MW-32A	732	2619697.3	499062.26	3	1106.14	1105.7202	1	1	0.419785
MW-33A	732	2622410.8	502847.91	3	1108.47	1111.1783	1	1	-2.708296
MW-34A	732	2624442.8	498806.3	3	1097.2	1097.1548	1	1	0.045152
MW-35A	732	2629595.8	496323.64	3	1084.62	1084.4337	1	1	0.186264
MW-38A	732	2638131.9	496248.57	3	1073.01	1069.9457	1	1	3.064255
MW-39A	732	2640062.3	499304.69	3	1075.51	1072.9366	1	1	2.573353
MW-40A	732	2623018.6	511963.35	3	1130.25	1128.6515	1	1	1.598498
MW-41A	732	2624371.5	512001.33	3	1127.81	1126.9942	1	1	0.815777
MW-42A	732	2629385.2	501582.56	3	1092.68	1091.3291	1	1	1.350944
MW-43A	732	2629243.1	504317.91	3	1095.96	1095.2591	1	1	0.700891
MW-44A	732	2632953.7	500415.12	3	1082.86	1081.6836	1	1	1.176353
MW-44B	732	2632954.9	500426.32	2	1080.53	1081.6913	1	1	-1.161333
MW-46A	732	2637464.9	499387.37	3	1075.72	1073.6229	1	1	2.097065
MW-46B	732	2637464.4	499396.68	2	1075.73	1073.6359	1	1	2.09414
MW-52A	732	2627012.6	508784.57	3	1116.52	1118.3398	1	1	-1.819846
MW-52B	732	2627004.2	508778.94	2	1116.42	1118.3189	1	1	-1.898862
MW-53A	732	2627897.8	508169.88	3	1107.13	1111.2479	1	1	-4.117901
MW-53B	732	2627885.4	508166.61	2	1110.94	1111.2727	1	1	-0.332706
MW-54A	732	2627893.8	508858.25	3	1109	1114.6898	1	1	-5.68978
MW-54B	732	2627883.9	508855.98	2	1112.27	1114.7501	1	1	-2.480059
MW-55A	732	2628135.4	508377.66	3	1107.13	1111.4416	1	1	-4.311594
MW-56A	732	2628206	508215.32	3	1106.48	1110.6316	1	1	-4.151557
MW-56B	732	2628195.3	508217.29	2	1110.26	1110.6708	1	1	-0.410759
MW-57B	732	2607621.5	516363.44	2	1158.92	1152.9063	1	1	6.013694
MW-60A	732	2624702.8	489585.15	3	1086.28	1091.5699	1	1	-5.289886
MW-61A	732	2608656	492900.05	3	1100.96	1102.5926	1	1	-1.632621
MW-65A	732	2613203.1	506090.52	3	1131.27	1130.2804	1	1	0.989559
MW-66B	732	2613268.3	506027.61	2	1130.11	1130.1013	1	1	0.008713
MW-71B	732	2613382.6	506090.27	2	1131.17	1130.2168	1	1	0.953156
MW-72A	732	2622931	512064.69	3	1129.94	1128.9952	1	1	0.944752
MW-73A	732	2623060.9	511909.15	3	1129.37	1128.4818	1	1	0.888198
MW-73B	732	2623052.3	511908.7	2	1129.38	1128.493	1	1	0.886965
MW-74A	732	2623093.9	511934.84	3	1129.42	1128.5002	1	1	0.919825
MW-75A	732	2623130	511962.35	3	1129.43	1128.5197	1	1	0.910323
MW-76A	732	2623158.6	511983.32	3	1129.46	1128.5329	1	1	0.927052
MW-77A	732	2623192.1	512008.01	3	1129.37	1128.5491	1	1	0.820925
MW-78A	732	2623223.8	512032.75	3	1129.53	1128.5669	1	1	0.963122
MW-79A	732	2610432.1	492336.21	3	1098.74	1099.1097	1	1	-0.369658
MW-80A	732	2610925.5	492067.12	3	1098.53	1099.0694	1	1	-0.539402
MW-80B	732	2610916.2	492064.59	2	1098.5	1099.0342	1	1	-0.534198
MW-81A	732	2611638	492369.38	3	1099.03	1100.5924	1	1	-1.562369
MW-81B	732	2611635.9	492360.36	2	1098.85	1100.5605	1	1	-1.710507
MW-82A	732	2619288.7	493318.05	3	1099.19	1098.9085	1	1	0.2815
MW-83A	732	2621924.1	495274.66	3	1096.62	1096.7953	1	1	-0.175342
MW-83B	732	2621921.8	495302.77	2	1096.68	1096.7938	1	1	-0.113808
MW-84A	732	2624277.8	495685.51	3	1094.65	1095.187	1	1	-0.536962
MW-84B	732	2624272	495712.9	2	1095.14	1095.2141	1	1	-0.074062
MW-85A	732	2628326.5	494439.02	3	1083.5	1086.8572	1	1	-3.357162
MW-86A	732	2631939.2	493759.74	3	1080.39	1078.7531	1	1	1.63691
MW-88A	732	2637643.9	494045.13	3	1071.97	1070.1415	1	1	1.82849
MW-89A	732	2610430.8	494253.88	3	1103.74	1104.9685	1	1	-1.228467
MW-90A	732	2611235.5	494302.04	3	1104.39	1104.6843	1	1	-0.294281
MW-91A	732	2612077	494323	3	1104.52	1104.7854	1	1	-0.265355
MW-92A	732	2610047.3	492722.58	3	1099.21	1099.9829	1	1	-0.772888
MW-93A	732	2612162.9	493551.29	3	1103.61	1103.6862	1	1	-0.076184
MW-94A	732	2617023.2	496428.72	3	1104.98	1105.6657	1	1	-0.685675
MW-95A	732	2617552.8	494508.64	3	1102.83	1102.5359	1	1	0.294128
MW-95B	732	2617547	494508.01	2	1102.83	1102.5441	1	1	0.285948
MW-96A	732	2621468.2	493387.73	3	1096.61	1096.8329	1	1	-0.22288
MW-97A	732	2623938	493492.83	3	1094.03	1093.7818	1	1	0.248153
MW-97B	732	2623932.7	493492.45	2	1093.63	1093.7905	1	1	-0.160464
MW-98A	732	2626495.3	493604.94	3	1090.52	1090.1645	1	1	0.355503
MW-99A	732	2627117.4	498780.95	3	1092.54	1091.7751	1	1	0.764874
MW-99B	732	2627118.4	498787.93	2	1092.51	1091.782	1	1	0.727963
N.Keiser	732	2632145	495084.13	3	1079.88	1077.9647	1	1	1.915283
N.Wann	732	2642527.9	520660.55	3	1101.76	1100.7739	1	1	0.986099
OW-05	732	2634934.8	495184.29	3	1068.59	1066.0481	1	1	2.541944
OW-06	732	2634884.3	495208.11	3	1070.03	1067.6908	1	1	2.339219

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OW-08	732	2634786.3	495194.19	3	1071.22	1068.7494	1	1	2.470569
OW-09	732	2634937.8	495134.36	3	1070.36	1067.3031	1	1	3.056863
OW-10	732	2635084.9	495206.73	3	1069.42	1068.7566	1	1	0.663431
OW-100	732	2628885.6	496489.5	3	1086	1085.5581	1	1	0.441922
OW-101	732	2622907.3	509987.52	3	1120.41	1121.2157	1	1	-0.805746
OW-102	732	2623025.6	510070.3	3	1121.88	1122.5523	1	1	-0.672321
OW-103	732	2623370.6	510291.27	3	1124.03	1123.8173	1	1	0.212737
OW-104	732	2622969.4	509760.45	3	1120.93	1121.7893	1	1	-0.859335
OW-105	732	2623170.6	509450.3	3	1121.4	1122.1037	1	1	-0.703741
OW-11	732	2635254.4	495167.81	3	1069.77	1069.4276	1	1	0.342426
OW-12	732	2636332.1	495279.48	3	1072.45	1069.63	1	1	2.819993
OW-13	732	2634929.3	495121.8	3	1070.44	1067.6261	1	1	2.813888
OW-14	732	2634937.1	494987.77	3	1071.43	1069.0009	1	1	2.429134
OW-15	732	2634948.1	494788.06	3	1072.57	1069.7823	1	1	2.787726
OW-16	732	2633480	495159.25	3	1075.07	1072.2238	1	1	2.84625
OW-18	732	2608114.4	499884.02	3	1116.58	1117.5552	1	1	-0.97524
OW-22	732	2608019.7	499355.14	3	1115.78	1116.5888	1	1	-0.808758
OW-23	732	2607158.4	499656.44	3	1117.05	1118.1527	1	1	-1.102674
OW-25	732	2629511.4	496932.08	3	1084.3	1083.5345	1	1	0.76547
OW-26	732	2629214.2	496664.05	3	1085.75	1084.9197	1	1	0.830255
OW-27	732	2629582.1	496942.21	3	1083.97	1083.5006	1	1	0.469447
OW-28	732	2629581.5	496898	3	1084.08	1083.707	1	1	0.372975
OW-31	732	2624243	497898.99	3	1097.05	1096.7121	1	1	0.337862
OW-32	732	2624140	497845.07	3	1097.06	1096.785	1	1	0.275047
OW-33	732	2623750.6	497669.79	3	1097.12	1097.0356	1	1	0.084388
OW-34	732	2624320.2	497868.57	3	1096.58	1096.6051	1	1	-0.025093
OW-36	732	2624413	497337.59	3	1096.12	1096.1669	1	1	-0.046897
OW-37	732	2624838.3	498178.35	3	1095.98	1096.1914	1	1	-0.211408
OW-38	732	2621733.1	496294.86	3	1093.34	1093.0582	1	1	0.281824
OW-39	732	2621620	496212.33	3	1095.63	1095.8555	1	1	-0.225471
OW-40	732	2621297.4	495975.58	3	1097.21	1097.3615	1	1	-0.151473
OW-41	732	2621816.6	496281.9	3	1092.51	1095.105	1	1	-2.594973
OW-42	732	2621899.7	496169.43	3	1094.68	1095.9443	1	1	-1.264253
OW-43	732	2622135.4	495845.76	3	1096.3	1096.4822	1	1	-0.182185
OW-44	732	2622302.6	496682.05	3	1096.93	1096.912	1	1	0.018036
OW-45	732	2619203.2	494842.21	3	1100.34	1100.2936	1	1	0.046432
OW-46	732	2619059	494783.36	3	1100.59	1100.4805	1	1	0.109475
OW-47	732	2618684.8	494630.88	3	1101.24	1100.9836	1	1	0.256433
OW-48	732	2619283.4	494800.47	3	1100.29	1100.1415	1	1	0.148534
OW-49	732	2619315.8	494671.87	3	1100.07	1100.0132	1	1	0.056785
OW-50	732	2619465.6	494300.16	3	1099.86	1099.5321	1	1	0.327928
OW-51	732	2619790.6	495096.02	3	1099.5	1099.4142	1	1	0.085753
OW-52	732	2610585.6	493033.91	3	1092.64	1095.4839	1	1	-2.843933
OW-53	732	2610556	493019.67	3	1094.43	1096.3137	1	1	-1.883666
OW-54	732	2611356.6	493520.93	3	1102.29	1102.8787	1	1	-0.588662
OW-55	732	2610821.5	492991.93	3	1091.33	1095.2725	1	1	-3.94251
OW-56	732	2611643	493196.43	3	1102.15	1102.8232	1	1	-0.673226
OW-57	732	2611768.8	493277.87	3	1102.54	1103.0707	1	1	-0.530654
OW-58	732	2611366.6	493009.96	3	1099.7	1101.0582	1	1	-1.35819
OW-59	732	2611580	493019.21	3	1101	1102.0437	1	1	-1.043729
OW-60	732	2627137.9	497440.67	3	1089.56	1088.5428	1	1	1.017179
OW-61	732	2627191.7	497571.53	3	1090.21	1089.2165	1	1	0.993544
OW-62	732	2627351.2	497954.27	3	1090.91	1089.8945	1	1	1.015485
OW-63	732	2627528	497841.89	3	1090.41	1089.3087	1	1	1.101332
OW-64	732	2627299.9	497308.27	3	1089.61	1088.3043	1	1	1.30575
OW-65	732	2627672.9	497146.26	3	1088.93	1087.948	1	1	0.981964
OW-66	732	2622938.1	497314.2	3	1096.71	1097.108	1	1	-0.397953
OW-67	732	2622730.7	497150.23	3	1096.76	1097.0243	1	1	-0.264327
OW-68	732	2622418.6	496526.17	3	1096.37	1096.7278	1	1	-0.357789
OW-69	732	2623044.6	497134.81	3	1096.53	1096.9265	1	1	-0.396489
OW-70	732	2623340.9	496845.85	3	1095.85	1096.6306	1	1	-0.780624
OW-71	732	2623796.3	497474.1	3	1096.5	1096.8236	1	1	-0.323642
OW-72	732	2620345.8	495292.98	3	1097.05	1097.7149	1	1	-0.664913
OW-73	732	2620217.6	495239.66	3	1097.8	1098.3911	1	1	-0.591073
OW-74	732	2619854.2	494895.06	3	1098.93	1099.217	1	1	-0.287025
OW-75	732	2620487.5	495139.42	3	1097.62	1097.8451	1	1	-0.225118
OW-76	732	2620657.9	494777.17	3	1097.85	1097.9638	1	1	-0.113761
OW-77	732	2621414.8	495808.38	3	1096.7	1097.1599	1	1	-0.459901
OW-78	732	2609111.3	499977.47	3	1111.73	1114.3179	1	1	-2.587882

Table 5-6
Residuals from August 2012 Transient
2012 Groundwater Model Report
Former NOP, Mead, Nebraska

Name	Time	X	Y	Layer	Observed	Computed	Weight	Group	Residual
OW-79	732	2608989.6	499915.27	3	1113.75	1115.326	1	1	-1.575975
OW-80	732	2608751.8	499731.59	3	1115.29	1116.1601	1	1	-0.870077
OW-81	732	2609233.5	499803.1	3	1114.41	1115.2135	1	1	-0.80345
OW-82	732	2609366	499415.33	3	1114.49	1115.3874	1	1	-0.897393
OW-83	732	2609754.9	500075.01	3	1115.98	1116.7041	1	1	-0.72405
OW-89	732	2632605.1	496433.6	3	1078.48	1076.7969	1	1	1.683062
OW-90	732	2625244.1	498690.84	3	1093.6	1092.0202	1	1	1.579778
OW-92	732	2625155.8	498583.33	3	1095.33	1094.5646	1	1	0.76545
OW-93	732	2625291.1	498721.87	3	1093.12	1092.883	1	1	0.237047
OW-94	732	2625433.5	498611.46	3	1095.1	1094.3846	1	1	0.715352
OW-95	732	2625755.7	498358.54	3	1094.76	1094.2635	1	1	0.49652
OW-96	732	2628354	496783.72	3	1087.46	1086.0496	1	1	1.410393
OW-97	732	2628423	496909.51	3	1087.02	1086.3515	1	1	0.668511
OW-98	732	2628617.4	497268.67	3	1087.34	1086.5712	1	1	0.768805
OW-99	732	2628520.5	496667.07	3	1086.63	1086.0262	1	1	0.603841
PV-37	732	2644077	514703.4	3	1086.38	1087.7708	1	1	-1.390792
PV-38	732	2642740.1	516679.62	3	1091.7	1091.7345	1	1	-0.034521
PV-39	732	2635348.7	501827.54	3	1080.05	1079.2441	1	1	0.805935
PV-40	732	2645297.7	502916.41	3	1078.82	1079.7999	1	1	-0.979873
PV-41	732	2642173.8	514040.5	3	1087.23	1088.1518	1	1	-0.921786
PZ-01	732	2632385.1	499049.59	3	1082.19	1081.0108	1	1	1.179184
PZ-02	732	2631558.7	499022.44	3	1086.74	1083.3239	1	1	3.416109
PZ-03	732	2633505.6	501788.92	3	1084.21	1083.8424	1	1	0.367596
PZ-13	732	2633396.4	499150.91	3	1078.47	1077.2391	1	1	1.23088
S.Keiser	732	2632579.6	493968.08	3	1078.8	1076.2543	1	1	2.545695
TH-EW-12	732	2610738.3	493102.14	3	1077.82	1082.4359	1	1	-4.615858
TH-EW-13	732	2611511.1	493072.65	3	1100.79	1101.9667	1	1	-1.176684
TH-EW-14R1	732	2625269	498721.42	3	1093.3	1092.1432	1	1	1.156844
TH-EW-14R2	732	2625871.9	497850	3	1094.44	1093.9025	1	1	0.537538
TH-EW-15	732	2622870.4	509960.21	3	1121.85	1120.1813	1	1	1.66875
TH-EW-16	732	2628310.3	496736.54	3	1086.53	1085.6206	1	1	0.909356
TV-16	732	2623841.7	492107.27	3	1092.78	1093.1741	1	1	-0.394123
TV-17A	732	2627487.9	482977.99	3	1084.55	1082.1139	1	1	2.436123

Residual Mean	-0.138423
Absoluate Residual Mean	1.395727
Residual Std. Deviation	2.145783
Sum of Squares	1414.8043
RMS Error	2.150243
Min. Residual	-12.730632
Max. Residual	10.775779
Number of Observations	306
Range in Observations	121.91
Scaled Residual Std. Deviation	1.76%
Scaled Absolute Residual Mean	1.14%
Scaled RMS Error	1.76%
Scaled Residual Mean	-0.11%

Notes:
Res. = Residual
Max. = Maximum
Min. = Minimum
Std. Dev. = Standard Deviation
RMS = Root Mean Squared
LPN = Lower Platte North Natural Resources District
M.U.D. = Metropolitan Utilities District
NOP = Nebraska Ordnance Plant
MW = Monitoring Well
OW = Observation Well
PZ = Piezometer
TH = Test Hole

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Table 5-7
Systematic Sensistivity Analysis
2012 Groundwater Model Report
Former NOP, Mead, Nebraska

Anistropy Ratio V:H (Layer 2 & 3) Compared to August 2012 Time Step			
	Current (1:10)	1:100	1:1
Residual Mean	-0.14	-0.14	-0.14
Abs. Res. Mean	1.40	1.40	1.40
Res. Std. Dev.	2.15	2.15	2.15
Sum of Squares	1414.8	1414.8	1414.8
RMS Error	2.15	2.15	2.15
Scaled Std. Dev.	1.76%	1.76%	1.76%
Scaled Abs. Mean	1.14%	1.14%	1.14%
Scaled RMS	1.76%	1.76%	1.76%

Hydraulic Conductivity Layer 2 & 3 Compared to August 2012 Time Step					
	Calibrated Result	+ 10%	+ 20%	- 10%	-20%
Residual Mean	-0.14	-0.19	-0.21	-0.08	-0.01
Abs. Res. Mean	1.40	1.43	1.46	1.37	1.36
Res. Std. Dev.	2.15	2.18	2.23	2.13	2.13
Sum of Squares	1414.8	1466.1	1532.9	1385.9	1389.9
RMS Error	2.15	2.19	2.24	2.13	2.13
Scaled Std. Dev.	1.76%	1.79%	1.83%	1.74%	1.75%
Scaled Abs. Mean	1.14%	1.17%	1.20%	1.12%	1.11%
Scaled RMS	1.76%	1.80%	1.84%	1.75%	1.75%

Evapotranspiration Compared to August 2012 Time Step			
	Calibrated Result Final Time Step	+ 20%	- 20%
Residual Mean	-0.14	-0.05	-0.18
Abs. Res. Mean	1.40	1.43	1.39
Res. Std. Dev.	2.15	2.18	2.14
Sum of Squares	1414.8	1457.2	1410.1
RMS Error	2.15	2.18	2.15
Scaled Std. Dev.	1.76%	1.79%	1.75%
Scaled Abs. Mean	1.14%	1.18%	1.14%
Scaled RMS	1.76%	1.79%	1.76%

Recharge Compared to August 2012 Time Step					
	Calibrated Result Final Time Step	+ 10%	+ 20%	- 10%	-20%
Residual Mean	-0.14	-0.38	-0.63	0.11	0.36
Absoluate Residual Mear	1.40	1.44	1.54	1.41	1.48
Residual Std. Deviation	2.15	2.15	2.16	2.15	2.16
Sum of Squares	1414.8	1457.2	1543.3	1418.3	1469.7
RMS Error	2.15	2.18	2.25	2.15	2.19
Scaled Std. Dev.	1.76%	1.76%	1.77%	1.76%	1.77%
Scaled Abs. Mean	1.14%	1.18%	1.26%	1.16%	1.22%
Scaled RMS	1.76%	1.79%	1.84%	1.77%	1.80%

Notes
Abs. = Absolute
H = Horizontal
NOP = Nebraska Ordnance Plant
Res. = Residual
RMS = Root Mean Squared
Std. Dev. = Standard Deviation
V = Vertical

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Table 5-8
Recharge and ET rates by Stress Period
2012 Groundwater Model Report
Former NOP, Mead, Nebraska

					Recharge		Evapotranspiration		
Stress Period	**Elapsed Time**	**Date Begin**	**Date End**	**# days**	**Zone 1**	**Zone 2**	**ET Zone 1**	**ET Zone 2**	**ET Zone 3**
					(ft/day)		(ft/day)		
1			8/26/2010	1	0.00494	0.00494	0.00800	0.00180	0.01880
2	5	8/27/2010	8/31/2010	5	0.00505	0.00505	0.00500	0.00100	0.01120
3	20	9/1/2010	9/15/2010	15	0.00355	0.00355	0.00800	0.00180	0.01880
4	35	9/16/2010	9/30/2010	15	0.00379	0.00379	0.00400	0.00100	0.00940
5	54	10/1/2010	10/19/2010	19	0.00003	0.00003	0.00120	0.00050	0.00250
6	96	10/20/2010	11/30/2010	42	0.00105	0.00105	0.00500	0.00100	0.01120
7	186	12/1/2010	2/28/2011	90	0.00042	0.00042	0.00800	0.00180	0.01880
8	278	3/1/2011	5/31/2011	92	0.00242	0.00242	0.00400	0.00100	0.00940
9	287	6/1/2011	6/9/2011	9	0.00105	0.00105	0.00400	0.00100	0.00940
10	299	6/10/2011	6/21/2011	12	0.00522	0.00522	0.00400	0.00100	0.00940
11	305	6/22/2011	6/27/2011	6	0.01055	0.01055	0.00400	0.00100	0.00940
12	312	6/28/2011	7/4/2011	7	0.00276	0.00276	0.00400	0.00100	0.00940
13	315	7/5/2011	7/7/2011	2	0.00487	0.00487	0.00400	0.00100	0.00940
14	320	7/7/2011	7/12/2011	5	0.00090	0.00090	0.00400	0.00100	0.00940
15	322	7/12/2011	7/14/2011	2	0.00186	0.00186	0.00400	0.00100	0.00940
16	354	7/15/2011	8/15/2011	32	0.00269	0.00269	0.00400	0.00100	0.00940
17	370	8/16/2011	8/31/2011	16	0.00182	0.00182	0.00800	0.00180	0.01880
18	461	9/1/2011	11/30/2011	91	0.00071	0.00071	0.00400	0.00100	0.00940
19	539	12/1/2011	2/16/2012	78	0.00100	0.00100	0.00400	0.00100	0.00940
20	558	2/17/2012	3/6/2012	19	0.00050	0.00050	0.00400	0.00100	0.00940
21	574	3/7/2012	3/22/2012	16	0.00050	0.00050	0.06280	0.0157	0.18840
22	644	3/23/2012	5/31/2012	70	0.00184	0.00184	0.07541	0.0189	0.22622
23	705	6/1/2012	7/31/2012	61	0.00122	0.00122	0.09600	0.02400	0.28800
24	731	8/1/2012	8/26/2012	26	0.00048	0.00048	0.09600	0.02400	0.28800
25	736	8/27/2012	8/31/2012	5	0.00000	0.00000	0.09600	0.02400	0.28800
26	740	9/1/2012	9/4/2012	4.4	0.00000	0.00000	0.09600	0.02400	0.28800
27	743	9/4/2012	9/7/2012	4.0	0.00000	0.00000	0.09600	0.02400	0.28800
28	746	9/7/2012	9/10/2012	3.6	0.00000	0.00000	0.09600	0.02400	0.28800
29	796	9/11/2012	10/30/2012	50	0.00083	0.00083	0.09600	0.02400	0.28800

Average ET at Mead, Mead Turf Farm, Mead Agro Farm
ET - Evapotranspiration
ft/day - feet per day
NOP - Nebrasksa Ordnance Plant
NA - Data not available in discrete time periods

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Table 5-9
Storage Coefficients
2012 Groundwater Model Report
Former NOP, Mead, Nebraska

Aquifer	Storativity/ Specific Storage	Specific Yield	Effective Porosity
Platte Valley	0.01	0.25	0.3
Todd Valley	0.003	0.2	0.25
Wahoo Valley	0.01	0.25	0.25
Overbank Fines	0.00001	0.1	0.2

Notes:
NOP = Nebraska Ordnance Plant

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Table 6-1
Fate and Transport Model Parameters
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Parameter	Value
Longitudinal dispersivity	1 ft
Transverse dispersivity	0.1 ft
Vertical dispersivity	0.01 ft
Bulk density	1.86 g/cm^3
Fraction of organic carbon (f_{oc}) in sand/gravel unit	3.00E-04
TCE K_{oc}	107 cm^3/g
Distribution coefficient (K_d) of TCE for shallow/intermediate layers*	0.03 cm^3/g
Distribution coefficient (K_d) of RDX for shallow/intermediate layers*	0.1 cm^3/g
Biodegradation half-life	65 years

*Unless otherwise noted in the report

Notes:
cm^3/g = cubic centimeters per gram
ft = Feet
f_{oc} = fraction of total organic carbon
g/cm^3 = grams per cubic centimeter
K_d = soil-water distribution coefficient
K_{oc} = Organic Carbon Partition Coefficient
NOP = Nebraska Ordnance Plant
TCE = trichloroethene
RDX =hexahydro-1,3,5-trinitro-1,3,5-triazine

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Table 7-1
Proposed Pumping Schedule for Next 30 Years
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

	gallons per minute							
Stress Period:	**1**	**2**	**3-11**	**12-21**	**22-31**	**32-41**	**42-51**	**52-61**
Management Period:	**1**	**1**	**1**	**2**	**3**	**4**	**5**	**6**
Start Date:	**10/30/12**	**1/1/13**	**6/1/13**	**9/1/17**	**9/1/22**	**9/1/27**	**9/1/32**	**9/1/37**
End Date:	**12/31/12**	**5/31/13**	**8/31/17**	**8/31/22**	**8/31/27**	**8/31/32**	**8/31/37**	**8/31/42**
EW-1R	193	200	200	200	200	200	200	200
EW-2	0	0	0	0	0	0	0	0
EW-3	286	0	0	0	0	0	0	0
EW-4	77	100	100	100	100	100	100	100
EW-5	0	0	0	0	0	0	0	0
EW-6	48	0	0	0	0	0	0	0
EW-7	277	290	290	290	290	290	290	290
EW-9	123	140	300	300	300	300	300	300
EW-10	0	0	0	0	0	0	0	0
FEW-11	414	550	550	550	550	550	550	550
EW-12	220	225	225	225	225	225	225	225
EW-13	0	0	0	0	0	0	0	0
FEW-14	176	250	250	250	250	250	250	250
FEW-15	435	500	500	500	500	500	500	500
EW-16	93	0	0	0	0	0	0	0
EW-17	0	0	275	275	275	275	275	275

	feet^3/day							
Stress Period:	**1**	**2**	**3-11**	**12-21**	**22-31**	**32-41**	**42-51**	**52-61**
Management Period:	**1**	**1**	**1**	**2**	**3**	**4**	**5**	**6**
Start Date:	**10/30/12**	**1/1/13**	**6/1/13**	**9/1/17**	**9/1/22**	**9/1/27**	**9/1/32**	**9/1/37**
End Date:	**12/31/12**	**5/31/13**	**8/31/17**	**8/31/22**	**8/31/27**	**8/31/32**	**8/31/37**	**8/31/42**
EW-1R	37,156	38,504	38,504	38,504	38,504	38,504	38,504	38,504
EW-2	0	0	0	0	0	0	0	0
EW-3	54,984	0	0	0	0	0	0	0
EW-4	14,728	19,252	19,252	19,252	19,252	19,252	19,252	19,252
EW-5	0	0	0	0	0	0	0	0
EW-6	9,183	0	0	0	0	0	0	0
EW-7	53,347	55,831	55,831	55,831	55,831	55,831	55,831	55,831
EW-9	23,734	26,953	57,756	57,756	57,756	57,756	57,756	57,756
EW-10	0	0	0	0	0	0	0	0
FEW-11	79,755	105,886	105,886	105,886	105,886	105,886	105,886	105,886
EW-12	42,354	43,317	43,407	43,317	43,317	43,317	43,317	43,317
EW-13	0	0	0	0	0	0	0	0
FEW-14	33,941	48,130	48,130	48,130	48,130	48,130	48,130	48,130
FEW-15	83,746	96,260	96,260	96,260	96,260	96,260	96,260	96,260
EW-16	17,981	0	0	0	0	0	0	0
EW-17	0	0	52,943	52,943	52,943	52,943	52,943	52,943

Notes:

(1) Values reported for Stress Periods 1 is based on average of November 2012 through December 2012 pumping rates.
EW - Extraction Well
FEW - Focused Extraction Well
NOP - Nebraska Ordnance Plant

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Table 7-2
Lincoln Water System Ashland Well Field Estimated Pumping Rates
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Stress Period:	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Start Date:	**9/1/12**	**6/1/13**	**9/1/13**	**6/1/14**	**9/1/14**	**6/1/15**	**9/1/15**	**6/1/16**	**9/1/16**	**6/1/17**	**9/1/17**	**6/1/18**	**9/1/18**	**6/1/19**	**9/1/19**	**6/1/20**	**9/1/20**
End Date:	**5/31/13**	**8/31/13**	**5/31/14**	**8/31/14**	**5/31/15**	**8/31/15**	**5/31/16**	**8/31/16**	**5/31/17**	**8/31/17**	**5/31/18**	**8/31/18**	**5/31/19**	**8/31/19**	**5/31/20**	**8/31/20**	**5/31/21**
LWS56-8	74,877	142,643	76,132	144,944	77,387	147,035	78,642	149,336	79,897	151,637	80,943	153,728	82,198	156,029	83,453	158,330	84,707
LWS56-9	74,877	142,643	76,132	144,944	77,387	147,035	78,642	149,336	79,897	151,637	80,943	153,728	82,198	156,029	83,453	158,330	84,707
LWS56-5	74,877	142,643	76,132	144,944	77,387	147,035	78,642	149,336	79,897	151,637	80,943	153,728	82,198	156,029	83,453	158,330	84,707
LWS54-3	74,877	142,643	76,132	144,944	77,387	147,035	78,642	149,336	79,897	151,637	80,943	153,728	82,198	156,029	83,453	158,330	84,707
LWS56-7	74,877	142,643	76,132	144,944	77,387	147,035	78,642	149,336	79,897	151,637	80,943	153,728	82,198	156,029	83,453	158,330	84,707
LWS54-5	74,877	142,643	76,132	144,944	77,387	147,035	78,642	149,336	79,897	151,637	80,943	153,728	82,198	156,029	83,453	158,330	84,707
LWS325A	104,828	199,700	106,585	202,921	108,342	205,850	110,099	209,071	111,856	212,292	113,320	215,220	115,077	218,441	116,834	221,662	118,590
LWS54-7	74,877	142,643	76,132	144,944	77,387	147,035	78,642	149,336	79,897	151,637	80,943	153,728	82,198	156,029	83,453	158,330	84,707
LWS32-4-2	53,484	101,888	54,380	103,531	55,276	105,025	56,173	106,669	57,069	108,312	57,816	109,806	58,713	111,449	59,609	113,093	60,505
LWS54-9	74,877	142,643	76,132	144,944	77,387	147,035	78,642	149,336	79,897	151,637	80,943	153,728	82,198	156,029	83,453	158,330	84,707
LWS32-4A-2	53,484	101,888	54,380	103,531	55,276	105,025	56,173	106,669	57,069	108,312	57,816	109,806	58,713	111,449	59,609	113,093	60,505
LWS54-6	74,877	142,643	76,132	144,944	77,387	147,035	78,642	149,336	79,897	151,637	80,943	153,728	82,198	156,029	83,453	158,330	84,707
LWS32-3-2	74,877	142,643	76,132	144,944	77,387	147,035	78,642	149,336	79,897	151,637	80,943	153,728	82,198	156,029	83,453	158,330	84,707
LWS54-8	96,271	183,398	97,884	186,356	99,498	189,046	101,111	192,004	102,725	194,962	104,069	197,651	105,683	200,609	107,296	203,567	108,910
LWS32-2-2	74,877	142,643	76,132	144,944	77,387	147,035	78,642	149,336	79,897	151,637	80,943	153,728	82,198	156,029	83,453	158,330	84,707
LWS54-10	133,709	254,720	135,950	258,828	138,191	262,563	140,432	266,672	142,673	270,780	144,541	274,515	146,781	278,623	149,022	282,732	151,263
LWS32-1A	106,967	203,776	108,760	207,063	110,553	210,051	112,346	213,337	114,138	216,624	115,632	219,612	117,425	222,899	119,218	226,185	121,011
LWS56-1	74,877	142,643	76,132	144,944	77,387	147,035	78,642	149,336	79,897	151,637	80,943	153,728	82,198	156,029	83,453	158,330	84,707
LWS49-7	74,877	142,643	76,132	144,944	77,387	147,035	78,642	149,336	79,897	151,637	80,943	153,728	82,198	156,029	83,453	158,330	84,707
LWS49-8	105,096	200,210	106,857	203,439	108,618	206,375	110,380	209,604	112,141	212,833	113,609	215,769	115,370	218,998	117,132	222,227	118,893
LWS49-6	74,877	142,643	76,132	144,944	77,387	147,035	78,642	149,336	79,897	151,637	80,943	153,728	82,198	156,029	83,453	158,330	84,707
LWS49-9	74,877	142,643	76,132	144,944	77,387	147,035	78,642	149,336	79,897	151,637	80,943	153,728	82,198	156,029	83,453	158,330	84,707
LWS54-1	74,877	142,643	76,132	144,944	77,387	147,035	78,642	149,336	79,897	151,637	80,943	153,728	82,198	156,029	83,453	158,330	84,707
LWS66 - 1	74,877	142,643	76,132	144,944	77,387	147,035	78,642	149,336	79,897	151,637	80,943	153,728	82,198	156,029	83,453	158,330	84,707
LWS76 - 1	160,451	305,664	163,140	310,594	165,829	315,076	168,519	320,006	171,208	324,936	173,449	329,418	176,138	334,348	178,827	339,278	181,516
LWS66 - 4	74,877	142,643	76,132	144,944	77,387	147,035	78,642	149,336	79,897	151,637	80,943	153,728	82,198	156,029	83,453	158,330	84,707
LWS76 - 2	160,451	305,664	163,140	310,594	165,829	315,076	168,519	320,006	171,208	324,936	173,449	329,418	176,138	334,348	178,827	339,278	181,516
LWS66 - 5	74,877	142,643	76,132	144,944	77,387	147,035	78,642	149,336	79,897	151,637	80,943	153,728	82,198	156,029	83,453	158,330	84,707
LWS66 - 6	74,877	142,643	76,132	144,944	77,387	147,035	78,642	149,336	79,897	151,637	80,943	153,728	82,198	156,029	83,453	158,330	84,707
LWS76 - 3	160,451	305,664	163,140	310,594	165,829	315,076	168,519	320,006	171,208	324,936	173,449	329,418	176,138	334,348	178,827	339,278	181,516
LWS76 - 4	160,451	305,664	163,140	310,594	165,829	315,076	168,519	320,006	171,208	324,936	173,449	329,418	176,138	334,348	178,827	339,278	181,516
LWS68-1A	120,338	229,248	122,355	232,946	124,372	236,307	126,389	240,004	128,406	243,702	130,086	247,063	132,103	250,761	134,120	254,459	136,137
LWS76 - 5	160,451	305,664	163,140	310,594	165,829	315,076	168,519	320,006	171,208	324,936	173,449	329,418	176,138	334,348	178,827	339,278	181,516
LWS76 - 6	96,271	183,398	97,884	186,356	99,498	189,046	101,111	192,004	102,725	194,962	104,069	197,651	105,683	200,609	107,296	203,567	108,910
LWS78574	74,877	142,643	76,132	144,944	77,387	147,035	78,642	149,336	79,897	151,637	80,943	153,728	82,198	156,029	83,453	158,330	84,707
LWS86-1	117,664	224,154	119,636	227,769	121,608	231,056	123,580	234,671	125,552	238,286	127,196	241,573	129,168	245,189	131,140	248,804	133,112
LWS86-2	117,664	224,154	119,636	227,769	121,608	231,056	123,580	234,671	125,552	238,286	127,196	241,573	129,168	245,189	131,140	248,804	133,112
LWS85451	652,501	1,243,034	663,437	1,263,082	674,373	1,281,309	685,309	1,301,358	696,245	1,321,407	705,358	1,339,633	716,294	1,359,682	727,229	1,379,731	738,165
LWS86646	652,501	1,243,034	663,437	1,263,082	674,373	1,281,309	685,309	1,301,358	696,245	1,321,407	705,358	1,339,633	716,294	1,359,682	727,229	1,379,731	738,165
Total (MGD)	**35.8**	**68.2**	**36.4**	**69.3**	**37.0**	**70.3**	**37.6**	**71.4**	**38.2**	**72.5**	**38.7**	**73.5**	**39.3**	**74.6**	**39.9**	**75.7**	**40.5**

Measurements in cubic feet per day
MGD = million gallons per day

Table 7-2
Lincoln Water System Ashland Well Field Estimated Pumping Rates
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Stress Period:	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Start Date:	**6/1/21**	**9/1/21**	**6/1/22**	**9/1/22**	**6/1/23**	**9/1/23**	**6/1/24**	**9/1/24**	**6/1/25**	**9/1/25**	**6/1/26**	**9/1/26**	**6/1/27**	**9/1/27**	**6/1/28**	**9/1/28**	**6/1/29**
End Date:	**8/31/21**	**5/31/22**	**8/31/22**	**5/31/23**	**8/31/23**	**5/31/24**	**8/31/24**	**5/31/25**	**8/31/25**	**5/31/26**	**8/31/26**	**5/31/27**	**8/31/27**	**5/31/28**	**8/31/28**	**5/31/29**	**8/31/29**
LWS56-8	160,421	85,753	162,722	87,008	165,023	88,263	167,114	89,518	169,415	90,982	172,552	92,655	175,690	94,329	178,618	95,793	181,755
LWS56-9	160,421	85,753	162,722	87,008	165,023	88,263	167,114	89,518	169,415	90,982	172,552	92,655	175,690	94,329	178,618	95,793	181,755
LWS56-5	160,421	85,753	162,722	87,008	165,023	88,263	167,114	89,518	169,415	90,982	172,552	92,655	175,690	94,329	178,618	95,793	181,755
LWS54-3	160,421	85,753	162,722	87,008	165,023	88,263	167,114	89,518	169,415	90,982	172,552	92,655	175,690	94,329	178,618	95,793	181,755
LWS56-7	160,421	85,753	162,722	87,008	165,023	88,263	167,114	89,518	169,415	90,982	172,552	92,655	175,690	94,329	178,618	95,793	181,755
LWS54-5	160,421	85,753	162,722	87,008	165,023	88,263	167,114	89,518	169,415	90,982	172,552	92,655	175,690	94,329	178,618	95,793	181,755
LWS325A	224,590	120,055	227,811	121,811	231,032	123,568	233,960	125,325	237,181	127,375	241,573	129,717	245,965	132,060	250,065	134,110	254,457
LWS54-7	160,421	85,753	162,722	87,008	165,023	88,263	167,114	89,518	169,415	90,982	172,552	92,655	175,690	94,329	178,618	95,793	181,755
LWS32-4-2	114,587	61,252	116,230	62,149	117,873	63,045	119,367	63,941	121,011	64,987	123,252	66,182	125,493	67,378	127,584	68,423	129,825
LWS54-9	160,421	85,753	162,722	87,008	165,023	88,263	167,114	89,518	169,415	90,982	172,552	92,655	175,690	94,329	178,618	95,793	181,755
LWS32-4A-2	114,587	61,252	116,230	62,149	117,873	63,045	119,367	63,941	121,011	64,987	123,252	66,182	125,493	67,378	127,584	68,423	129,825
LWS54-6	160,421	85,753	162,722	87,008	165,023	88,263	167,114	89,518	169,415	90,982	172,552	92,655	175,690	94,329	178,618	95,793	181,755
LWS32-3-2	160,421	85,753	162,722	87,008	165,023	88,263	167,114	89,518	169,415	90,982	172,552	92,655	175,690	94,329	178,618	95,793	181,755
LWS54-8	206,256	110,254	209,214	111,868	212,172	113,481	214,861	115,095	217,819	116,977	221,853	119,128	225,887	121,280	229,651	123,162	233,685
LWS32-2-2	160,421	85,753	162,722	87,008	165,023	88,263	167,114	89,518	169,415	90,982	172,552	92,655	175,690	94,329	178,618	95,793	181,755
LWS54-10	286,467	153,131	290,575	155,372	294,683	157,613	298,418	159,854	302,527	162,468	308,129	165,456	313,731	168,444	318,960	171,058	324,563
LWS32-1A	229,173	122,505	232,460	124,297	235,747	126,090	238,735	127,883	242,021	129,974	246,503	132,365	250,985	134,755	255,168	136,847	259,650
LWS56-1	160,421	85,753	162,722	87,008	165,023	88,263	167,114	89,518	169,415	90,982	172,552	92,655	175,690	94,329	178,618	95,793	181,755
LWS49-7	160,421	85,753	162,722	87,008	165,023	88,263	167,114	89,518	169,415	90,982	172,552	92,655	175,690	94,329	178,618	95,793	181,755
LWS49-8	225,163	120,361	228,392	122,122	231,621	123,884	234,557	125,645	237,786	127,700	242,189	130,048	246,593	132,397	250,703	134,452	255,106
LWS49-6	160,421	85,753	162,722	87,008	165,023	88,263	167,114	89,518	169,415	90,982	172,552	92,655	175,690	94,329	178,618	95,793	181,755
LWS49-9	160,421	85,753	162,722	87,008	165,023	88,263	167,114	89,518	169,415	90,982	172,552	92,655	175,690	94,329	178,618	95,793	181,755
LWS54-1	160,421	85,753	162,722	87,008	165,023	88,263	167,114	89,518	169,415	90,982	172,552	92,655	175,690	94,329	178,618	95,793	181,755
LWS66 - 1	160,421	85,753	162,722	87,008	165,023	88,263	167,114	89,518	169,415	90,982	172,552	92,655	175,690	94,329	178,618	95,793	181,755
LWS76 - 1	343,760	183,757	348,690	186,446	353,620	189,135	358,102	191,824	363,032	194,962	369,755	198,547	376,478	202,133	382,752	205,270	389,475
LWS66 - 4	160,421	85,753	162,722	87,008	165,023	88,263	167,114	89,518	169,415	90,982	172,552	92,655	175,690	94,329	178,618	95,793	181,755
LWS76 - 2	343,760	183,757	348,690	186,446	353,620	189,135	358,102	191,824	363,032	194,962	369,755	198,547	376,478	202,133	382,752	205,270	389,475
LWS66 - 5	160,421	85,753	162,722	87,008	165,023	88,263	167,114	89,518	169,415	90,982	172,552	92,655	175,690	94,329	178,618	95,793	181,755
LWS66 - 6	160,421	85,753	162,722	87,008	165,023	88,263	167,114	89,518	169,415	90,982	172,552	92,655	175,690	94,329	178,618	95,793	181,755
LWS76 - 3	343,760	183,757	348,690	186,446	353,620	189,135	358,102	191,824	363,032	194,962	369,755	198,547	376,478	202,133	382,752	205,270	389,475
LWS76 - 4	343,760	183,757	348,690	186,446	353,620	189,135	358,102	191,824	363,032	194,962	369,755	198,547	376,478	202,133	382,752	205,270	389,475
LWS68-1A	257,820	137,818	261,517	139,835	265,215	141,851	268,576	143,868	272,274	146,221	277,316	148,910	282,358	151,599	287,064	153,952	292,106
LWS76 - 5	343,760	183,757	348,690	186,446	353,620	189,135	358,102	191,824	363,032	194,962	369,755	198,547	376,478	202,133	382,752	205,270	389,475
LWS76 - 6	206,256	110,254	209,214	111,868	212,172	113,481	214,861	115,095	217,819	116,977	221,853	119,128	225,887	121,280	229,651	123,162	233,685
LWS78574	160,421	85,753	162,722	87,008	165,023	88,263	167,114	89,518	169,415	90,982	172,552	92,655	175,690	94,329	178,618	95,793	181,755
LWS86-1	252,091	134,755	255,706	136,727	259,321	138,699	262,608	140,671	266,223	142,972	271,154	145,601	276,084	148,231	280,685	150,531	285,615
LWS86-2	252,091	134,755	255,706	136,727	259,321	138,699	262,608	140,671	266,223	142,972	271,154	145,601	276,084	148,231	280,685	150,531	285,615
LWS85451	1,397,957	747,278	1,418,006	758,214	1,438,055	769,150	1,456,281	780,086	1,476,330	792,844	1,503,670	807,425	1,531,009	822,006	1,556,526	834,764	1,583,865
LWS86646	1,397,957	747,278	1,418,006	758,214	1,438,055	769,150	1,456,281	780,086	1,476,330	792,844	1,503,670	807,425	1,531,009	822,006	1,556,526	834,764	1,583,865
Total (MGD)	**76.7**	**41.0**	**77.8**	**41.6**	**78.9**	**42.2**	**79.9**	**42.8**	**81.0**	**43.5**	**82.5**	**44.3**	**84.0**	**45.1**	**85.4**	**45.8**	**86.9**

Measurements i
MGD = million

Table 7-2
Lincoln Water System Ashland Well Field Estimated Pumping Rates
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Stress Period:	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
Start Date:	**9/1/29**	**6/1/30**	**9/1/30**	**6/1/31**	**9/1/31**	**6/1/32**	**9/1/32**	**6/1/33**	**9/1/33**	**6/1/34**	**9/1/34**	**6/1/35**	**9/1/35**	**6/1/36**	**9/1/36**	**6/1/37**	**9/1/37**
End Date:	**5/31/30**	**8/31/30**	**5/31/31**	**8/31/31**	**5/31/32**	**8/31/32**	**5/31/33**	**8/31/33**	**5/31/34**	**8/31/34**	**5/31/35**	**8/31/35**	**5/31/36**	**8/31/36**	**5/31/37**	**8/31/37**	**5/31/38**
LWS56-8	97,466	184,892	98,930	188,030	100,603	191,167	102,276	194,095	103,741	197,232	105,414	200,370	107,087	203,507	108,551	206,644	110,224
LWS56-9	97,466	184,892	98,930	188,030	100,603	191,167	102,276	194,095	103,741	197,232	105,414	200,370	107,087	203,507	108,551	206,644	110,224
LWS56-5	97,466	184,892	98,930	188,030	100,603	191,167	102,276	194,095	103,741	197,232	105,414	200,370	107,087	203,507	108,551	206,644	110,224
LWS54-3	97,466	184,892	98,930	188,030	100,603	191,167	102,276	194,095	103,741	197,232	105,414	200,370	107,087	203,507	108,551	206,644	110,224
LWS56-7	97,466	184,892	98,930	188,030	100,603	191,167	102,276	194,095	103,741	197,232	105,414	200,370	107,087	203,507	108,551	206,644	110,224
LWS54-5	97,466	184,892	98,930	188,030	100,603	191,167	102,276	194,095	103,741	197,232	105,414	200,370	107,087	203,507	108,551	206,644	110,224
LWS325A	136,452	258,849	138,502	263,242	140,844	267,634	143,187	271,733	145,237	276,125	147,579	280,518	149,922	284,910	151,971	289,302	154,314
LWS54-7	97,466	184,892	98,930	188,030	100,603	191,167	102,276	194,095	103,741	197,232	105,414	200,370	107,087	203,507	108,551	206,644	110,224
LWS32-4-2	69,618	132,066	70,664	134,307	71,859	136,548	73,055	138,639	74,100	140,880	75,296	143,121	76,491	145,362	77,536	147,603	78,732
LWS54-9	97,466	184,892	98,930	188,030	100,603	191,167	102,276	194,095	103,741	197,232	105,414	200,370	107,087	203,507	108,551	206,644	110,224
LWS32-4A-2	69,618	132,066	70,664	134,307	71,859	136,548	73,055	138,639	74,100	140,880	75,296	143,121	76,491	145,362	77,536	147,603	78,732
LWS54-6	97,466	184,892	98,930	188,030	100,603	191,167	102,276	194,095	103,741	197,232	105,414	200,370	107,087	203,507	108,551	206,644	110,224
LWS32-3-2	97,466	184,892	98,930	188,030	100,603	191,167	102,276	194,095	103,741	197,232	105,414	200,370	107,087	203,507	108,551	206,644	110,224
LWS54-8	125,313	237,719	127,196	241,752	129,347	245,786	131,498	249,551	133,381	253,585	135,532	257,618	137,683	261,652	139,566	265,686	141,717
LWS32-2-2	97,466	184,892	98,930	188,030	100,603	191,167	102,276	194,095	103,741	197,232	105,414	200,370	107,087	203,507	108,551	206,644	110,224
LWS54-10	174,046	330,165	176,661	335,767	179,649	341,370	182,636	346,598	185,251	352,201	188,239	357,803	191,227	363,405	193,841	369,008	196,829
LWS32-1A	139,237	264,132	141,329	268,614	143,719	273,096	146,109	277,279	148,201	281,761	150,591	286,243	152,981	290,724	155,073	295,206	157,463
LWS56-1	97,466	184,892	98,930	188,030	100,603	191,167	102,276	194,095	103,741	197,232	105,414	200,370	107,087	203,507	108,551	206,644	110,224
LWS49-7	97,466	184,892	98,930	188,030	100,603	191,167	102,276	194,095	103,741	197,232	105,414	200,370	107,087	203,507	108,551	206,644	110,224
LWS49-8	136,800	259,510	138,855	263,913	141,204	268,317	143,552	272,426	145,607	276,830	147,956	281,233	150,304	285,637	152,359	290,040	154,708
LWS49-6	97,466	184,892	98,930	188,030	100,603	191,167	102,276	194,095	103,741	197,232	105,414	200,370	107,087	203,507	108,551	206,644	110,224
LWS49-9	97,466	184,892	98,930	188,030	100,603	191,167	102,276	194,095	103,741	197,232	105,414	200,370	107,087	203,507	108,551	206,644	110,224
LWS54-1	97,466	184,892	98,930	188,030	100,603	191,167	102,276	194,095	103,741	197,232	105,414	200,370	107,087	203,507	108,551	206,644	110,224
LWS66 - 1	97,466	184,892	98,930	188,030	100,603	191,167	102,276	194,095	103,741	197,232	105,414	200,370	107,087	203,507	108,551	206,644	110,224
LWS76 - 1	208,855	396,198	211,993	402,921	215,578	409,644	219,164	415,918	222,301	422,641	225,887	429,364	229,472	436,087	232,609	442,809	236,195
LWS66 - 4	97,466	184,892	98,930	188,030	100,603	191,167	102,276	194,095	103,741	197,232	105,414	200,370	107,087	203,507	108,551	206,644	110,224
LWS76 - 2	208,855	396,198	211,993	402,921	215,578	409,644	219,164	415,918	222,301	422,641	225,887	429,364	229,472	436,087	232,609	442,809	236,195
LWS66 - 5	97,466	184,892	98,930	188,030	100,603	191,167	102,276	194,095	103,741	197,232	105,414	200,370	107,087	203,507	108,551	206,644	110,224
LWS66 - 6	97,466	184,892	98,930	188,030	100,603	191,167	102,276	194,095	103,741	197,232	105,414	200,370	107,087	203,507	108,551	206,644	110,224
LWS76 - 3	208,855	396,198	211,993	402,921	215,578	409,644	219,164	415,918	222,301	422,641	225,887	429,364	229,472	436,087	232,609	442,809	236,195
LWS76 - 4	208,855	396,198	211,993	402,921	215,578	409,644	219,164	415,918	222,301	422,641	225,887	429,364	229,472	436,087	232,609	442,809	236,195
LWS68-1A	156,642	297,148	158,995	302,191	161,684	307,233	164,373	311,939	166,726	316,981	169,415	322,023	172,104	327,065	174,457	332,107	177,146
LWS76 - 5	208,855	396,198	211,993	402,921	215,578	409,644	219,164	415,918	222,301	422,641	225,887	429,364	229,472	436,087	232,609	442,809	236,195
LWS76 - 6	125,313	237,719	127,196	241,752	129,347	245,786	131,498	249,551	133,381	253,585	135,532	257,618	137,683	261,652	139,566	265,686	141,717
LWS78574	97,466	184,892	98,930	188,030	100,603	191,167	102,276	194,095	103,741	197,232	105,414	200,370	107,087	203,507	108,551	206,644	110,224
LWS86-1	153,161	290,545	155,461	295,475	158,091	300,405	160,720	305,007	163,021	309,937	165,650	314,867	168,280	319,797	170,580	324,727	173,210
LWS86-2	153,161	290,545	155,461	295,475	158,091	300,405	160,720	305,007	163,021	309,937	165,650	314,867	168,280	319,797	170,580	324,727	173,210
LWS85451	849,345	1,611,205	862,104	1,638,544	876,685	1,665,884	891,266	1,691,400	904,024	1,718,740	918,605	1,746,079	933,186	1,773,419	945,945	1,800,758	960,526
LWS86646	849,345	1,611,205	862,104	1,638,544	876,685	1,665,884	891,266	1,691,400	904,024	1,718,740	918,605	1,746,079	933,186	1,773,419	945,945	1,800,758	960,526
Total (MGD)	**46.6**	**88.4**	**47.3**	**89.9**	**48.1**	**91.4**	**48.9**	**92.8**	**49.6**	**94.3**	**50.4**	**95.8**	**51.2**	**97.3**	**51.9**	**98.8**	**52.7**

Measurements i
MGD = million

Table 7-2
Lincoln Water System Ashland Well Field Estimated Pumping Rates
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Stress Period:	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69
Start Date:	**6/1/38**	**9/1/38**	**6/1/39**	**9/1/39**	**6/1/40**	**9/1/40**	**6/1/41**	**9/1/41**	**6/1/42**	**9/1/42**	**6/1/43**	**9/1/43**	**6/1/44**	**9/1/44**	**6/1/45**	**9/1/45**	**6/1/46**
End Date:	**8/31/38**	**5/31/39**	**8/31/39**	**5/31/40**	**8/31/40**	**5/31/41**	**8/31/41**	**5/31/42**	**8/31/42**	**5/31/43**	**8/31/43**	**5/31/44**	**8/31/44**	**5/31/45**	**8/31/45**	**5/31/46**	**8/31/46**
LWS56-8	209,573	111,688	212,710	113,362	215,847	115,035	218,984	116,499	222,122	118,172	225,050	119,845	228,187	121,309	231,325	122,983	234,462
LWS56-9	209,573	111,688	212,710	113,362	215,847	115,035	218,984	116,499	222,122	118,172	225,050	119,845	228,187	121,309	231,325	122,983	234,462
LWS56-5	209,573	111,688	212,710	113,362	215,847	115,035	218,984	116,499	222,122	118,172	225,050	119,845	228,187	121,309	231,325	122,983	234,462
LWS54-3	209,573	111,688	212,710	113,362	215,847	115,035	218,984	116,499	222,122	118,172	225,050	119,845	228,187	121,309	231,325	122,983	234,462
LWS56-7	209,573	111,688	212,710	113,362	215,847	115,035	218,984	116,499	222,122	118,172	225,050	119,845	228,187	121,309	231,325	122,983	234,462
LWS54-5	209,573	111,688	212,710	113,362	215,847	115,035	218,984	116,499	222,122	118,172	225,050	119,845	228,187	121,309	231,325	122,983	234,462
LWS325A	293,402	156,364	297,794	158,706	302,186	161,049	306,578	163,098	310,971	165,441	315,070	167,784	319,462	169,833	323,854	172,176	328,247
LWS54-7	209,573	111,688	212,710	113,362	215,847	115,035	218,984	116,499	222,122	118,172	225,050	119,845	228,187	121,309	231,325	122,983	234,462
LWS32-4-2	149,695	79,777	151,936	80,973	154,177	82,168	156,417	83,214	158,658	84,409	160,750	85,604	162,991	86,650	165,232	87,845	167,473
LWS54-9	209,573	111,688	212,710	113,362	215,847	115,035	218,984	116,499	222,122	118,172	225,050	119,845	228,187	121,309	231,325	122,983	234,462
LWS32-4A-2	149,695	79,777	151,936	80,973	154,177	82,168	156,417	83,214	158,658	84,409	160,750	85,604	162,991	86,650	165,232	87,845	167,473
LWS54-6	209,573	111,688	212,710	113,362	215,847	115,035	218,984	116,499	222,122	118,172	225,050	119,845	228,187	121,309	231,325	122,983	234,462
LWS32-3-2	209,573	111,688	212,710	113,362	215,847	115,035	218,984	116,499	222,122	118,172	225,050	119,845	228,187	121,309	231,325	122,983	234,462
LWS54-8	269,450	143,599	273,484	145,751	277,518	147,902	281,551	149,784	285,585	151,936	289,350	154,087	293,384	155,969	297,417	158,121	301,451
LWS32-2-2	209,573	111,688	212,710	113,362	215,847	115,035	218,984	116,499	222,122	118,172	225,050	119,845	228,187	121,309	231,325	122,983	234,462
LWS54-10	374,237	199,444	379,839	202,431	385,441	205,419	391,044	208,034	396,646	211,022	401,875	214,010	407,477	216,624	413,080	219,612	418,682
LWS32-1A	299,389	159,555	303,871	161,945	308,353	164,335	312,835	166,427	317,317	168,817	321,500	171,208	325,982	173,299	330,464	175,690	334,946
LWS56-1	209,573	111,688	212,710	113,362	215,847	115,035	218,984	116,499	222,122	118,172	225,050	119,845	228,187	121,309	231,325	122,983	234,462
LWS49-7	209,573	111,688	212,710	113,362	215,847	115,035	218,984	116,499	222,122	118,172	225,050	119,845	228,187	121,309	231,325	122,983	234,462
LWS49-8	294,150	156,763	298,553	159,111	302,957	161,460	307,360	163,515	311,764	165,863	315,874	168,212	320,277	170,266	324,681	172,615	329,084
LWS49-6	209,573	111,688	212,710	113,362	215,847	115,035	218,984	116,499	222,122	118,172	225,050	119,845	228,187	121,309	231,325	122,983	234,462
LWS49-9	209,573	111,688	212,710	113,362	215,847	115,035	218,984	116,499	222,122	118,172	225,050	119,845	228,187	121,309	231,325	122,983	234,462
LWS54-1	209,573	111,688	212,710	113,362	215,847	115,035	218,984	116,499	222,122	118,172	225,050	119,845	228,187	121,309	231,325	122,983	234,462
LWS66 - 1	209,573	111,688	212,710	113,362	215,847	115,035	218,984	116,499	222,122	118,172	225,050	119,845	228,187	121,309	231,325	122,983	234,462
LWS76 - 1	449,084	239,332	455,807	242,918	462,530	246,503	469,252	249,641	475,975	253,226	482,250	256,812	488,973	259,949	495,696	263,534	502,418
LWS66 - 4	209,573	111,688	212,710	113,362	215,847	115,035	218,984	116,499	222,122	118,172	225,050	119,845	228,187	121,309	231,325	122,983	234,462
LWS76 - 2	449,084	239,332	455,807	242,918	462,530	246,503	469,252	249,641	475,975	253,226	482,250	256,812	488,973	259,949	495,696	263,534	502,418
LWS66 - 5	209,573	111,688	212,710	113,362	215,847	115,035	218,984	116,499	222,122	118,172	225,050	119,845	228,187	121,309	231,325	122,983	234,462
LWS66 - 6	209,573	111,688	212,710	113,362	215,847	115,035	218,984	116,499	222,122	118,172	225,050	119,845	228,187	121,309	231,325	122,983	234,462
LWS76 - 3	449,084	239,332	455,807	242,918	462,530	246,503	469,252	249,641	475,975	253,226	482,250	256,812	488,973	259,949	495,696	263,534	502,418
LWS76 - 4	449,084	239,332	455,807	242,918	462,530	246,503	469,252	249,641	475,975	253,226	482,250	256,812	488,973	259,949	495,696	263,534	502,418
LWS68-1A	336,813	179,499	341,855	182,188	346,897	184,877	351,939	187,230	356,981	189,920	361,687	192,609	366,730	194,962	371,772	197,651	376,814
LWS76 - 5	449,084	239,332	455,807	242,918	462,530	246,503	469,252	249,641	475,975	253,226	482,250	256,812	488,973	259,949	495,696	263,534	502,418
LWS76 - 6	269,450	143,599	273,484	145,751	277,518	147,902	281,551	149,784	285,585	151,936	289,350	154,087	293,384	155,969	297,417	158,121	301,451
LWS78574	209,573	111,688	212,710	113,362	215,847	115,035	218,984	116,499	222,122	118,172	225,050	119,845	228,187	121,309	231,325	122,983	234,462
LWS86-1	329,328	175,510	334,258	178,140	339,188	180,769	344,118	183,070	349,049	185,699	353,650	188,328	358,580	190,629	363,510	193,259	368,440
LWS86-2	329,328	175,510	334,258	178,140	339,188	180,769	344,118	183,070	349,049	185,699	353,650	188,328	358,580	190,629	363,510	193,259	368,440
LWS85451	1,826,275	973,284	1,853,615	987,865	1,880,954	1,002,446	1,908,293	1,015,205	1,935,633	1,029,786	1,961,150	1,044,367	1,988,489	1,057,125	2,015,829	1,071,706	2,043,168
LWS86646	1,826,275	973,284	1,853,615	987,865	1,880,954	1,002,446	1,908,293	1,015,205	1,935,633	1,029,786	1,961,150	1,044,367	1,988,489	1,057,125	2,015,829	1,071,706	2,043,168
Total (MGD)	**100.2**	**53.4**	**101.7**	**54.2**	**103.2**	**55.0**	**104.7**	**55.7**	**106.2**	**56.5**	**107.6**	**57.3**	**109.1**	**58.0**	**110.6**	**58.8**	**112.1**

Measurements i
MGD = million

Table 7-2
Lincoln Water System Ashland Well Field Estimated Pumping Rates
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Stress Period:	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86
Start Date:	**9/1/46**	**6/1/47**	**9/1/47**	**6/1/48**	**9/1/48**	**6/1/49**	**9/1/49**	**6/1/50**	**9/1/50**	**6/1/51**	**9/1/51**	**6/1/52**	**9/1/52**	**6/1/53**	**9/1/53**	**6/1/54**	**9/1/54**
End Date:	**5/31/47**	**8/31/47**	**5/31/48**	**8/31/48**	**5/31/49**	**8/31/49**	**5/31/50**	**8/31/50**	**5/31/51**	**8/31/51**	**5/31/52**	**8/31/52**	**5/31/53**	**8/31/53**	**5/31/54**	**8/31/54**	**5/31/55**
LWS56-8	124,656	237,599	126,120	240,527	127,793	243,665	129,257	246,802	130,931	249,939	132,604	253,077	134,068	256,005	135,741	259,142	137,414
LWS56-9	124,656	237,599	126,120	240,527	127,793	243,665	129,257	246,802	130,931	249,939	132,604	253,077	134,068	256,005	135,741	259,142	137,414
LWS56-5	124,656	237,599	126,120	240,527	127,793	243,665	129,257	246,802	130,931	249,939	132,604	253,077	134,068	256,005	135,741	259,142	137,414
LWS54-3	124,656	237,599	126,120	240,527	127,793	243,665	129,257	246,802	130,931	249,939	132,604	253,077	134,068	256,005	135,741	259,142	137,414
LWS56-7	124,656	237,599	126,120	240,527	127,793	243,665	129,257	246,802	130,931	249,939	132,604	253,077	134,068	256,005	135,741	259,142	137,414
LWS54-5	124,656	237,599	126,120	240,527	127,793	243,665	129,257	246,802	130,931	249,939	132,604	253,077	134,068	256,005	135,741	259,142	137,414
LWS325A	174,518	332,639	176,568	336,738	178,911	341,131	180,960	345,523	183,303	349,915	185,645	354,307	187,695	358,407	190,038	362,799	192,380
LWS54-7	124,656	237,599	126,120	240,527	127,793	243,665	129,257	246,802	130,931	249,939	132,604	253,077	134,068	256,005	135,741	259,142	137,414
LWS32-4-2	89,040	169,714	90,086	171,805	91,281	174,046	92,327	176,287	93,522	178,528	94,717	180,769	95,763	182,861	96,958	185,102	98,153
LWS54-9	124,656	237,599	126,120	240,527	127,793	243,665	129,257	246,802	130,931	249,939	132,604	253,077	134,068	256,005	135,741	259,142	137,414
LWS32-4A-2	89,040	169,714	90,086	171,805	91,281	174,046	92,327	176,287	93,522	178,528	94,717	180,769	95,763	182,861	96,958	185,102	98,153
LWS54-6	124,656	237,599	126,120	240,527	127,793	243,665	129,257	246,802	130,931	249,939	132,604	253,077	134,068	256,005	135,741	259,142	137,414
LWS32-3-2	124,656	237,599	126,120	240,527	127,793	243,665	129,257	246,802	130,931	249,939	132,604	253,077	134,068	256,005	135,741	259,142	137,414
LWS54-8	160,272	305,485	162,154	309,249	164,306	313,283	166,188	317,317	168,339	321,351	170,491	325,384	172,373	329,149	174,524	333,183	176,676
LWS32-2-2	124,656	237,599	126,120	240,527	127,793	243,665	129,257	246,802	130,931	249,939	132,604	253,077	134,068	256,005	135,741	259,142	137,414
LWS54-10	222,600	424,284	225,214	429,513	228,202	435,116	230,817	440,718	233,805	446,320	236,792	451,923	239,407	457,151	242,395	462,754	245,383
LWS32-1A	178,080	339,427	180,171	343,611	182,562	348,092	184,653	352,574	187,044	357,056	189,434	361,538	191,526	365,721	193,916	370,203	196,306
LWS56-1	124,656	237,599	126,120	240,527	127,793	243,665	129,257	246,802	130,931	249,939	132,604	253,077	134,068	256,005	135,741	259,142	137,414
LWS49-7	124,656	237,599	126,120	240,527	127,793	243,665	129,257	246,802	130,931	249,939	132,604	253,077	134,068	256,005	135,741	259,142	137,414
LWS49-8	174,963	333,487	177,018	337,597	179,367	342,001	181,422	346,404	183,770	350,808	186,119	355,211	188,174	359,321	190,522	363,724	192,871
LWS49-6	124,656	237,599	126,120	240,527	127,793	243,665	129,257	246,802	130,931	249,939	132,604	253,077	134,068	256,005	135,741	259,142	137,414
LWS49-9	124,656	237,599	126,120	240,527	127,793	243,665	129,257	246,802	130,931	249,939	132,604	253,077	134,068	256,005	135,741	259,142	137,414
LWS54-1	124,656	237,599	126,120	240,527	127,793	243,665	129,257	246,802	130,931	249,939	132,604	253,077	134,068	256,005	135,741	259,142	137,414
LWS66 - 1	124,656	237,599	126,120	240,527	127,793	243,665	129,257	246,802	130,931	249,939	132,604	253,077	134,068	256,005	135,741	259,142	137,414
LWS76 - 1	267,120	509,141	270,257	515,416	273,843	522,139	276,980	528,861	280,565	535,584	284,151	542,307	287,288	548,582	290,874	555,305	294,459
LWS66 - 4	124,656	237,599	126,120	240,527	127,793	243,665	129,257	246,802	130,931	249,939	132,604	253,077	134,068	256,005	135,741	259,142	137,414
LWS76 - 2	267,120	509,141	270,257	515,416	273,843	522,139	276,980	528,861	280,565	535,584	284,151	542,307	287,288	548,582	290,874	555,305	294,459
LWS66 - 5	124,656	237,599	126,120	240,527	127,793	243,665	129,257	246,802	130,931	249,939	132,604	253,077	134,068	256,005	135,741	259,142	137,414
LWS66 - 6	124,656	237,599	126,120	240,527	127,793	243,665	129,257	246,802	130,931	249,939	132,604	253,077	134,068	256,005	135,741	259,142	137,414
LWS76 - 3	267,120	509,141	270,257	515,416	273,843	522,139	276,980	528,861	280,565	535,584	284,151	542,307	287,288	548,582	290,874	555,305	294,459
LWS76 - 4	267,120	509,141	270,257	515,416	273,843	522,139	276,980	528,861	280,565	535,584	284,151	542,307	287,288	548,582	290,874	555,305	294,459
LWS68-1A	200,340	381,856	202,693	386,562	205,382	391,604	207,735	396,646	210,424	401,688	213,113	406,730	215,466	411,436	218,155	416,478	220,844
LWS76 - 5	267,120	509,141	270,257	515,416	273,843	522,139	276,980	528,861	280,565	535,584	284,151	542,307	287,288	548,582	290,874	555,305	294,459
LWS76 - 6	160,272	305,485	162,154	309,249	164,306	313,283	166,188	317,317	168,339	321,351	170,491	325,384	172,373	329,149	174,524	333,183	176,676
LWS78574	124,656	237,599	126,120	240,527	127,793	243,665	129,257	246,802	130,931	249,939	132,604	253,077	134,068	256,005	135,741	259,142	137,414
LWS86-1	195,888	373,370	198,189	377,972	200,818	382,902	203,119	387,832	205,748	392,762	208,377	397,692	210,678	402,293	213,307	407,223	215,937
LWS86-2	195,888	373,370	198,189	377,972	200,818	382,902	203,119	387,832	205,748	392,762	208,377	397,692	210,678	402,293	213,307	407,223	215,937
LWS85451	1,086,287	2,070,507	1,099,046	2,096,024	1,113,627	2,123,364	1,126,385	2,150,703	1,140,966	2,178,043	1,155,547	2,205,382	1,168,306	2,230,899	1,182,887	2,258,238	1,197,468
LWS86646	1,086,287	2,070,507	1,099,046	2,096,024	1,113,627	2,123,364	1,126,385	2,150,703	1,140,966	2,178,043	1,155,547	2,205,382	1,168,306	2,230,899	1,182,887	2,258,238	1,197,468
Total (MGD)	**59.6**	**113.6**	**60.3**	**115.0**	**61.1**	**116.5**	**61.8**	**118.0**	**62.6**	**119.5**	**63.4**	**121.0**	**64.1**	**122.4**	**64.9**	**123.9**	**65.7**

Measurements i
MGD = million

Table 7-2
Lincoln Water System Ashland Well Field Estimated Pumping Rates
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Stress Period:	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103
Start Date:	**6/1/55**	**9/1/55**	**6/1/56**	**9/1/56**	**6/1/57**	**9/1/57**	**6/1/58**	**9/1/58**	**6/1/59**	**9/1/59**	**6/1/60**	**9/1/60**	**6/1/61**	**9/1/61**	**6/1/62**	**9/1/62**	**6/1/63**
End Date:	**8/31/55**	**5/31/56**	**8/31/56**	**5/31/57**	**8/31/57**	**5/31/58**	**8/31/58**	**5/31/59**	**8/31/59**	**5/31/60**	**8/31/60**	**5/31/61**	**8/31/61**	**5/31/62**	**8/31/62**	**5/31/63**	**8/31/63**
LWS56-8	262,279	138,878	265,417	140,552	268,554	142,225	271,482	143,689	274,620	145,362	277,757	146,826	280,894	148,500	284,031	150,173	286,960
LWS56-9	262,279	138,878	265,417	140,552	268,554	142,225	271,482	143,689	274,620	145,362	277,757	146,826	280,894	148,500	284,031	150,173	286,960
LWS56-5	262,279	138,878	265,417	140,552	268,554	142,225	271,482	143,689	274,620	145,362	277,757	146,826	280,894	148,500	284,031	150,173	286,960
LWS54-3	262,279	138,878	265,417	140,552	268,554	142,225	271,482	143,689	274,620	145,362	277,757	146,826	280,894	148,500	284,031	150,173	286,960
LWS56-7	262,279	138,878	265,417	140,552	268,554	142,225	271,482	143,689	274,620	145,362	277,757	146,826	280,894	148,500	284,031	150,173	286,960
LWS54-5	262,279	138,878	265,417	140,552	268,554	142,225	271,482	143,689	274,620	145,362	277,757	146,826	280,894	148,500	284,031	150,173	286,960
LWS325A	367,191	194,430	371,583	196,772	375,976	199,115	380,075	201,165	384,467	203,507	388,860	205,557	393,252	207,899	397,644	210,242	401,743
LWS54-7	262,279	138,878	265,417	140,552	268,554	142,225	271,482	143,689	274,620	145,362	277,757	146,826	280,894	148,500	284,031	150,173	286,960
LWS32-4-2	187,342	99,199	189,583	100,394	191,824	101,589	193,916	102,635	196,157	103,830	198,398	104,876	200,639	106,071	202,880	107,266	204,971
LWS54-9	262,279	138,878	265,417	140,552	268,554	142,225	271,482	143,689	274,620	145,362	277,757	146,826	280,894	148,500	284,031	150,173	286,960
LWS32-4A-2	187,342	99,199	189,583	100,394	191,824	101,589	193,916	102,635	196,157	103,830	198,398	104,876	200,639	106,071	202,880	107,266	204,971
LWS54-6	262,279	138,878	265,417	140,552	268,554	142,225	271,482	143,689	274,620	145,362	277,757	146,826	280,894	148,500	284,031	150,173	286,960
LWS32-3-2	262,279	138,878	265,417	140,552	268,554	142,225	271,482	143,689	274,620	145,362	277,757	146,826	280,894	148,500	284,031	150,173	286,960
LWS54-8	337,216	178,558	341,250	180,709	345,284	182,861	349,049	184,743	353,082	186,894	357,116	188,777	361,150	190,928	365,183	193,079	368,948
LWS32-2-2	262,279	138,878	265,417	140,552	268,554	142,225	271,482	143,689	274,620	145,362	277,757	146,826	280,894	148,500	284,031	150,173	286,960
LWS54-10	468,356	247,997	473,958	250,985	479,561	253,973	484,790	256,587	490,392	259,575	495,994	262,190	501,597	265,178	507,199	268,166	512,428
LWS32-1A	374,685	198,398	379,167	200,788	383,649	203,178	387,832	205,270	392,314	207,660	396,795	209,752	401,277	212,142	405,759	214,532	409,942
LWS56-1	262,279	138,878	265,417	140,552	268,554	142,225	271,482	143,689	274,620	145,362	277,757	146,826	280,894	148,500	284,031	150,173	286,960
LWS49-7	262,279	138,878	265,417	140,552	268,554	142,225	271,482	143,689	274,620	145,362	277,757	146,826	280,894	148,500	284,031	150,173	286,960
LWS49-8	368,128	194,926	372,531	197,274	376,935	199,623	381,045	201,678	385,448	204,026	389,852	206,081	394,255	208,430	398,658	210,778	402,768
LWS49-6	262,279	138,878	265,417	140,552	268,554	142,225	271,482	143,689	274,620	145,362	277,757	146,826	280,894	148,500	284,031	150,173	286,960
LWS49-9	262,279	138,878	265,417	140,552	268,554	142,225	271,482	143,689	274,620	145,362	277,757	146,826	280,894	148,500	284,031	150,173	286,960
LWS54-1	262,279	138,878	265,417	140,552	268,554	142,225	271,482	143,689	274,620	145,362	277,757	146,826	280,894	148,500	284,031	150,173	286,960
LWS66 - 1	262,279	138,878	265,417	140,552	268,554	142,225	271,482	143,689	274,620	145,362	277,757	146,826	280,894	148,500	284,031	150,173	286,960
LWS76 - 1	562,027	297,597	568,750	301,182	575,473	304,768	581,748	307,905	588,470	311,490	595,193	314,628	601,916	318,213	608,639	321,799	614,913
LWS66 - 4	262,279	138,878	265,417	140,552	268,554	142,225	271,482	143,689	274,620	145,362	277,757	146,826	280,894	148,500	284,031	150,173	286,960
LWS76 - 2	562,027	297,597	568,750	301,182	575,473	304,768	581,748	307,905	588,470	311,490	595,193	314,628	601,916	318,213	608,639	321,799	614,913
LWS66 - 5	262,279	138,878	265,417	140,552	268,554	142,225	271,482	143,689	274,620	145,362	277,757	146,826	280,894	148,500	284,031	150,173	286,960
LWS66 - 6	262,279	138,878	265,417	140,552	268,554	142,225	271,482	143,689	274,620	145,362	277,757	146,826	280,894	148,500	284,031	150,173	286,960
LWS76 - 3	562,027	297,597	568,750	301,182	575,473	304,768	581,748	307,905	588,470	311,490	595,193	314,628	601,916	318,213	608,639	321,799	614,913
LWS76 - 4	562,027	297,597	568,750	301,182	575,473	304,768	581,748	307,905	588,470	311,490	595,193	314,628	601,916	318,213	608,639	321,799	614,913
LWS68-1A	421,520	223,197	426,563	225,887	431,605	228,576	436,311	230,929	441,353	233,618	446,395	235,971	451,437	238,660	456,479	241,349	461,185
LWS76 - 5	562,027	297,597	568,750	301,182	575,473	304,768	581,748	307,905	588,470	311,490	595,193	314,628	601,916	318,213	608,639	321,799	614,913
LWS76 - 6	337,216	178,558	341,250	180,709	345,284	182,861	349,049	184,743	353,082	186,894	357,116	188,777	361,150	190,928	365,183	193,079	368,948
LWS78574	262,279	138,878	265,417	140,552	268,554	142,225	271,482	143,689	274,620	145,362	277,757	146,826	280,894	148,500	284,031	150,173	286,960
LWS86-1	412,153	218,238	417,083	220,867	422,013	223,496	426,615	225,797	431,545	228,426	436,475	230,727	441,405	233,356	446,335	235,986	450,937
LWS86-2	412,153	218,238	417,083	220,867	422,013	223,496	426,615	225,797	431,545	228,426	436,475	230,727	441,405	233,356	446,335	235,986	450,937
LWS85451	2,285,578	1,210,226	2,312,917	1,224,807	2,340,257	1,239,388	2,365,773	1,252,147	2,393,113	1,266,728	2,420,452	1,279,486	2,447,792	1,294,067	2,475,131	1,308,648	2,500,648
LWS86646	2,285,578	1,210,226	2,312,917	1,224,807	2,340,257	1,239,388	2,365,773	1,252,147	2,393,113	1,266,728	2,420,452	1,279,486	2,447,792	1,294,067	2,475,131	1,308,648	2,500,648
Total (MGD)	**125.4**	**66.4**	**126.9**	**67.2**	**128.4**	**68.0**	**129.8**	**68.7**	**131.3**	**69.5**	**132.8**	**70.2**	**134.3**	**71.0**	**135.8**	**71.8**	**137.2**

Measurements i
MGD = million

Table 7-2
Lincoln Water System Ashland Well Field Estimated Pumping Rates
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Stress Period:	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
Start Date:	**9/1/63**	**6/1/64**	**9/1/64**	**6/1/65**	**9/1/65**	**6/1/66**	**9/1/66**	**6/1/67**	**9/1/67**	**6/1/68**	**9/1/68**	**6/1/69**	**9/1/69**	**6/1/70**	**9/1/70**	**6/1/71**	**9/1/71**
End Date:	**5/31/64**	**8/31/64**	**5/31/65**	**8/31/65**	**5/31/66**	**8/31/66**	**5/31/67**	**8/31/67**	**5/31/68**	**8/31/68**	**5/31/69**	**8/31/69**	**5/31/70**	**8/31/70**	**5/31/71**	**8/31/71**	**5/31/72**
LWS56-8	151,637	290,139	153,310	293,234	154,983	296,330	156,447	299,425	158,121	302,521	159,794	305,616	161,258	308,712	162,931	311,807	164,395
LWS56-9	151,637	290,139	153,310	293,234	154,983	296,330	156,447	299,425	158,121	302,521	159,794	305,616	161,258	308,712	162,931	311,807	164,395
LWS56-5	151,637	290,139	153,310	293,234	154,983	296,330	156,447	299,425	158,121	302,521	159,794	305,616	161,258	308,712	162,931	311,807	164,395
LWS54-3	151,637	290,139	153,310	293,234	154,983	296,330	156,447	299,425	158,121	302,521	159,794	305,616	161,258	308,712	162,931	311,807	164,395
LWS56-7	151,637	290,139	153,310	293,234	154,983	296,330	156,447	299,425	158,121	302,521	159,794	305,616	161,258	308,712	162,931	311,807	164,395
LWS54-5	151,637	290,139	153,310	293,234	154,983	296,330	156,447	299,425	158,121	302,521	159,794	305,616	161,258	308,712	162,931	311,807	164,395
LWS325A	212,292	406,194	214,634	410,528	216,977	414,862	219,026	419,195	221,369	423,529	223,711	427,863	225,761	432,196	228,104	436,530	230,153
LWS54-7	151,637	290,139	153,310	293,234	154,983	296,330	156,447	299,425	158,121	302,521	159,794	305,616	161,258	308,712	162,931	311,807	164,395
LWS32-4-2	108,312	207,242	109,507	209,453	110,702	211,664	111,748	213,875	112,943	216,086	114,138	218,297	115,184	220,508	116,379	222,719	117,425
LWS54-9	151,637	290,139	153,310	293,234	154,983	296,330	156,447	299,425	158,121	302,521	159,794	305,616	161,258	308,712	162,931	311,807	164,395
LWS32-4A-2	108,312	207,242	109,507	209,453	110,702	211,664	111,748	213,875	112,943	216,086	114,138	218,297	115,184	220,508	116,379	222,719	117,425
LWS54-6	151,637	290,139	153,310	293,234	154,983	296,330	156,447	299,425	158,121	302,521	159,794	305,616	161,258	308,712	162,931	311,807	164,395
LWS32-3-2	151,637	290,139	153,310	293,234	154,983	296,330	156,447	299,425	158,121	302,521	159,794	305,616	161,258	308,712	162,931	311,807	164,395
LWS54-8	194,962	373,036	197,113	377,015	199,264	380,995	201,147	384,975	203,298	388,955	205,449	392,935	207,332	396,915	209,483	400,895	211,365
LWS32-2-2	151,637	290,139	153,310	293,234	154,983	296,330	156,447	299,425	158,121	302,521	159,794	305,616	161,258	308,712	162,931	311,807	164,395
LWS54-10	270,780	518,105	273,768	523,633	276,756	529,160	279,370	534,688	282,358	540,216	285,346	545,743	287,961	551,271	290,948	556,798	293,563
LWS32-1A	216,624	414,484	219,014	418,906	221,405	423,328	223,496	427,750	225,887	432,172	228,277	436,595	230,368	441,017	232,759	445,439	234,850
LWS56-1	151,637	290,139	153,310	293,234	154,983	296,330	156,447	299,425	158,121	302,521	159,794	305,616	161,258	308,712	162,931	311,807	164,395
LWS49-7	151,637	290,139	153,310	293,234	154,983	296,330	156,447	299,425	158,121	302,521	159,794	305,616	161,258	308,712	162,931	311,807	164,395
LWS49-8	212,833	407,230	215,182	411,575	217,530	415,920	219,585	420,265	221,934	424,609	224,282	428,954	226,337	433,299	228,686	437,644	230,740
LWS49-6	151,637	290,139	153,310	293,234	154,983	296,330	156,447	299,425	158,121	302,521	159,794	305,616	161,258	308,712	162,931	311,807	164,395
LWS49-9	151,637	290,139	153,310	293,234	154,983	296,330	156,447	299,425	158,121	302,521	159,794	305,616	161,258	308,712	162,931	311,807	164,395
LWS54-1	151,637	290,139	153,310	293,234	154,983	296,330	156,447	299,425	158,121	302,521	159,794	305,616	161,258	308,712	162,931	311,807	164,395
LWS66 - 1	151,637	290,139	153,310	293,234	154,983	296,330	156,447	299,425	158,121	302,521	159,794	305,616	161,258	308,712	162,931	311,807	164,395
LWS76 - 1	324,936	621,726	328,522	628,359	332,107	634,992	335,244	641,625	338,830	648,259	342,415	654,892	345,553	661,525	349,138	668,158	352,275
LWS66 - 4	151,637	290,139	153,310	293,234	154,983	296,330	156,447	299,425	158,121	302,521	159,794	305,616	161,258	308,712	162,931	311,807	164,395
LWS76 - 2	324,936	621,726	328,522	628,359	332,107	634,992	335,244	641,625	338,830	648,259	342,415	654,892	345,553	661,525	349,138	668,158	352,275
LWS66 - 5	151,637	290,139	153,310	293,234	154,983	296,330	156,447	299,425	158,121	302,521	159,794	305,616	161,258	308,712	162,931	311,807	164,395
LWS66 - 6	151,637	290,139	153,310	293,234	154,983	296,330	156,447	299,425	158,121	302,521	159,794	305,616	161,258	308,712	162,931	311,807	164,395
LWS76 - 3	324,936	621,726	328,522	628,359	332,107	634,992	335,244	641,625	338,830	648,259	342,415	654,892	345,553	661,525	349,138	668,158	352,275
LWS76 - 4	324,936	621,726	328,522	628,359	332,107	634,992	335,244	641,625	338,830	648,259	342,415	654,892	345,553	661,525	349,138	668,158	352,275
LWS68-1A	243,702	466,294	246,391	471,269	249,080	476,244	251,433	481,219	254,122	486,194	256,812	491,169	259,165	496,144	261,854	501,119	264,207
LWS76 - 5	324,936	621,726	328,522	628,359	332,107	634,992	335,244	641,625	338,830	648,259	342,415	654,892	345,553	661,525	349,138	668,158	352,275
LWS76 - 6	194,962	373,036	197,113	377,015	199,264	380,995	201,147	384,975	203,298	388,955	205,449	392,935	207,332	396,915	209,483	400,895	211,365
LWS78574	151,637	290,139	153,310	293,234	154,983	296,330	156,447	299,425	158,121	302,521	159,794	305,616	161,258	308,712	162,931	311,807	164,395
LWS86-1	238,286	455,932	240,916	460,797	243,545	465,661	245,846	470,525	248,475	475,390	251,105	480,254	253,405	485,118	256,035	489,983	258,335
LWS86-2	238,286	455,932	240,916	460,797	243,545	465,661	245,846	470,525	248,475	475,390	251,105	480,254	253,405	485,118	256,035	489,983	258,335
LWS85451	1,321,407	2,528,352	1,335,988	2,555,327	1,350,569	2,582,302	1,363,327	2,609,277	1,377,908	2,636,252	1,392,489	2,663,227	1,405,248	2,690,202	1,419,829	2,717,177	1,432,587
LWS86646	1,321,407	2,528,352	1,335,988	2,555,327	1,350,569	2,582,302	1,363,327	2,609,277	1,377,908	2,636,252	1,392,489	2,663,227	1,405,248	2,690,202	1,419,829	2,717,177	1,432,587
Total (MGD)	**72.5**	**138.7**	**73.3**	**140.2**	**74.1**	**141.7**	**74.8**	**143.2**	**75.6**	**144.6**	**76.4**	**146.1**	**77.1**	**147.6**	**77.9**	**149.1**	**78.6**

Measurements i
MGD = million

Table 7-2
Lincoln Water System Ashland Well Field Estimated Pumping Rates
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Stress Period:	121	122	123	124	125	126	127	128	129	130	131
Start Date:	**6/1/72**	**9/1/72**	**6/1/73**	**9/1/73**	**6/1/74**	**9/1/74**	**6/1/75**	**9/1/75**	**5/31/76**	**9/1/76**	**6/1/77**
End Date:	**8/31/72**	**5/31/73**	**8/31/73**	**5/31/74**	**8/31/74**	**5/31/75**	**8/31/75**	**5/31/76**	**8/31/76**	**5/31/77**	**8/31/77**
LWS56-8	314,903	166,068	317,998	167,742	321,094	169,206	324,189	170,879	327,285	172,552	330,380
LWS56-9	314,903	166,068	317,998	167,742	321,094	169,206	324,189	170,879	327,285	172,552	330,380
LWS56-5	314,903	166,068	317,998	167,742	321,094	169,206	324,189	170,879	327,285	172,552	330,380
LWS54-3	314,903	166,068	317,998	167,742	321,094	169,206	324,189	170,879	327,285	172,552	330,380
LWS56-7	314,903	166,068	317,998	167,742	321,094	169,206	324,189	170,879	327,285	172,552	330,380
LWS54-5	314,903	166,068	317,998	167,742	321,094	169,206	324,189	170,879	327,285	172,552	330,380
LWS325A	440,864	232,496	445,197	234,838	449,531	236,888	453,865	239,231	458,198	241,573	462,532
LWS54-7	314,903	166,068	317,998	167,742	321,094	169,206	324,189	170,879	327,285	172,552	330,380
LWS32-4-2	224,930	118,620	227,142	119,816	229,353	120,861	231,564	122,056	233,775	123,252	235,986
LWS54-9	314,903	166,068	317,998	167,742	321,094	169,206	324,189	170,879	327,285	172,552	330,380
LWS32-4A-2	224,930	118,620	227,142	119,816	229,353	120,861	231,564	122,056	233,775	123,252	235,986
LWS54-6	314,903	166,068	317,998	167,742	321,094	169,206	324,189	170,879	327,285	172,552	330,380
LWS32-3-2	314,903	166,068	317,998	167,742	321,094	169,206	324,189	170,879	327,285	172,552	330,380
LWS54-8	404,875	213,517	408,855	215,668	412,835	217,550	416,815	219,702	420,794	221,853	424,774
LWS32-2-2	314,903	166,068	317,998	167,742	321,094	169,206	324,189	170,879	327,285	172,552	330,380
LWS54-10	562,326	296,551	567,854	299,539	573,381	302,153	578,909	305,141	584,437	308,129	589,964
LWS32-1A	449,861	237,241	454,283	239,631	458,705	241,723	463,127	244,113	467,549	246,503	471,971
LWS56-1	314,903	166,068	317,998	167,742	321,094	169,206	324,189	170,879	327,285	172,552	330,380
LWS49-7	314,903	166,068	317,998	167,742	321,094	169,206	324,189	170,879	327,285	172,552	330,380
LWS49-8	441,988	233,089	446,333	235,437	450,678	237,492	455,023	239,841	459,367	242,189	463,712
LWS49-6	314,903	166,068	317,998	167,742	321,094	169,206	324,189	170,879	327,285	172,552	330,380
LWS49-9	314,903	166,068	317,998	167,742	321,094	169,206	324,189	170,879	327,285	172,552	330,380
LWS54-1	314,903	166,068	317,998	167,742	321,094	169,206	324,189	170,879	327,285	172,552	330,380
LWS66 - 1	314,903	166,068	317,998	167,742	321,094	169,206	324,189	170,879	327,285	172,552	330,380
LWS76 - 1	674,791	355,861	681,425	359,447	688,058	362,584	694,691	366,169	701,324	369,755	707,957
LWS66 - 4	314,903	166,068	317,998	167,742	321,094	169,206	324,189	170,879	327,285	172,552	330,380
LWS76 - 2	674,791	355,861	681,425	359,447	688,058	362,584	694,691	366,169	701,324	369,755	707,957
LWS66 - 5	314,903	166,068	317,998	167,742	321,094	169,206	324,189	170,879	327,285	172,552	330,380
LWS66 - 6	314,903	166,068	317,998	167,742	321,094	169,206	324,189	170,879	327,285	172,552	330,380
LWS76 - 3	674,791	355,861	681,425	359,447	688,058	362,584	694,691	366,169	701,324	369,755	707,957
LWS76 - 4	674,791	355,861	681,425	359,447	688,058	362,584	694,691	366,169	701,324	369,755	707,957
LWS68-1A	506,094	266,896	511,068	269,585	516,043	271,938	521,018	274,627	525,993	277,316	530,968
LWS76 - 5	674,791	355,861	681,425	359,447	688,058	362,584	694,691	366,169	701,324	369,755	707,957
LWS76 - 6	404,875	213,517	408,855	215,668	412,835	217,550	416,815	219,702	420,794	221,853	424,774
LWS78574	314,903	166,068	317,998	167,742	321,094	169,206	324,189	170,879	327,285	172,552	330,380
LWS86-1	494,847	260,965	499,711	263,594	504,576	265,895	509,440	268,524	514,304	271,154	519,169
LWS86-2	494,847	260,965	499,711	263,594	504,576	265,895	509,440	268,524	514,304	271,154	519,169
LWS85451	2,744,151	1,447,168	2,771,126	1,461,749	2,798,101	1,474,508	2,825,076	1,489,089	2,852,051	1,503,670	2,879,026
LWS86646	2,744,151	1,447,168	2,771,126	1,461,749	2,798,101	1,474,508	2,825,076	1,489,089	2,852,051	1,503,670	2,879,026
Total (MGD)	**150.6**	**79.4**	**152.0**	**80.2**	**153.5**	**80.9**	**155.0**	**81.7**	**156.5**	**82.5**	**158.0**

Measurements i
MGD = million

Table 7-3
MUD Platte West Well Field Estimated Pumping Rates
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

Stress Period	1	2	3	4	5,7…199	6,8…200	1	2	3	4	5,7…199	6,8…200
Start Date	6/1/2013	9/1/2013	6/1/2014	9/1/2014	6/1	9/1	6/1/2013	9/1/2013	6/1/2014	9/1/2014	6/1	9/1
End Date	8/31/2013	5/31/2014	8/31/2014	5/31/2015	8/31	5/31	8/31/2013	5/31/2014	8/31/2014	5/31/2015	8/31	5/31
PW94-2	311,350	103,238	311,350	103,238	311,350	103,238	1618	536	1618	536	1,618	536
PW91-3	596,750	596,750	596,750	596,750	596,750	596,750	3100	3100	3100	3100	3,100	3,100
PW04-4	0	0	0	0	0	0	0	0	0	0	0	0
PW04-5	334,180	110,168	334,180	110,168	334,180	110,168	1736	572	1736	572	1,736	572
PW04-6	0	0	0	0	0	0	0	0	0	0	0	0
PW04-7	225,206	0	225,206	0	225,206	0	1170	0	1170	0	1,170	0
PW04-8	334,180	259,509	334,180	259,509	334,180	259,509	1736	1348	1736	1348	1,736	1,348
PW04-9	334,180	110,168	334,180	110,168	334,180	110,168	1736	572	1736	572	1,736	572
PW04-10	0	0	0	0	0	0	0	0	0	0	0	0
PW04-11	0	0	0	0	0	0	0	0	0	0	0	0
PW04-12	0	86,028	0	86,028	0	86,028	0	447	0	447	0	447
PW04-13	225,206	149,342	225,206	149,342	225,206	149,342	1170	776	1170	776	1,170	776
PW04-14	259,452	86,028	259,452	86,028	259,452	86,028	1348	447	1348	447	1,348	447
PW04-15	125,549	301,802	125,549	301,802	125,549	301,802	652	1568	652	1568	652	1,568
PW04-16	108,974	184,839	108,974	184,839	108,974	184,839	566	960	566	960	566	960
PW04-17	385,000	215,773	385,000	215,773	385,000	215,773	2,000	1,121	2,000	1,121	2,000	1,121
PW91-30	596,750	596,750	596,750	596,750	596,750	596,750	3,100	3,100	3,100	3,100	3,100	3,100
PW94-31	163,202	276,834	163,202	276,834	163,202	276,834	848	1,438	848	1,438	848	1,438
PW94-32	0	0	0	0	0	0	0	0	0	0	0	0
PW94-33	311,350	103,238	311,350	103,238	311,350	103,238	1,618	536	1,618	536	1,618	536
PW94-34	442,750	244,899	442,750	244,899	442,750	244,899	2,300	1,272	2,300	1,272	2,300	1,272
PW94-35	324,324	215,061	324,324	215,061	324,324	215,061	1,685	1,117	1,685	1,117	1,685	1,117
PW94-36	539,000	418,572	539,000	418,572	539,000	418,572	2,800	2,175	2,800	2,175	2,800	2,175
PW94-37	500,500	392,334	500,500	392,334	500,500	392,334	2,600	2,038	2,600	2,038	2,600	2,038
PW04-38	0	358,339	0	358,339	0	358,339	0	1,862	0	1,862	0	1,862
PW04-39	272,426	0	272,426	0	272,426	0	1,415	0	1,415	0	1,415	0
PW04-40	404,250	316,894	404,250	316,894	404,250	316,894	2,100	1,646	2,100	1,646	2,100	1,646
PW04-41	0	0	0	0	0	0	0	0	0	0	0	0
PW04-42	91,014	216,755	91,014	216,755	91,014	216,755	473	1,126	473	1,126	473	1,126
PW04-43	272,426	0	272,426	0	272,426	0	1,415	0	1,415	0	1,415	0
PW04-44	94,152	95,191	94,152	95,191	94,152	95,191	489	495	489	495	489	495
PW04-45	272,426	180,661	272,426	180,661	272,426	180,661	1,415	939	1,415	939	1,415	939
PW04-46	442,750	50,281	442,750	50,281	442,750	50,281	2,300	261	2,300	261	2,300	261
PW04-47	0	0	0	0	0	0	0	0	0	0	0	0
PW04-48	279,125	216,755	279,125	216,755	279,125	216,755	1,450	1,126	1,450	1,126	1,450	1,126
PW04-49	239,990	79,580	239,990	79,580	239,990	79,580	1,247	413	1,247	413	1,247	413
PW04-50	0	0	0	0	0	0	0	0	0	0	0	0
PW04-51	91,014	31,705	91,014	31,705	91,014	31,705	473	165	473	165	473	165
PW04-52	207,573	0	207,573	0	207,573	0	1,078	0	1,078	0	1,078	0
PW04-53	188,111	122,700	188,111	122,700	188,111	122,700	977	637	977	637	977	637
PW04-54	279,125	94,056	279,125	94,056	279,125	94,056	1,450	489	1,450	489	1,450	489
PW04-55	0	0	0	0	0	0	0	0	0	0	0	0

Notes: MUD - Metropolitan Utilities District
NOP - Nebraska Ordnance Plant

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Table 7-4
Specified Concentration Assumptions
2012 Groundwater Model Report
Former NOP, Mead, Nebraska

Stress Periods	Time Frame	LL1 TCE (ug/L)
1-6	2012-2015	8000
7-12	2015-2018	6500
13-18	2018-2021	5000
19-24	2021-2024	3500
25-30	2024-2027	200
31-36	2027-2030	500
37-42	2030-2033	50
43-200	2033-2102	0

Notes:
*These concentrations were estimated based on existing site data and history matching simulations discussed in Section 6 of the GWM12. There is a significant amount of uncertainty in the concentrations and the rate of decline. Additional long term monitoring well data can provide trends to verify these assumptions.

TCE = Trichloroethene
NOP = Nebraska Ordnance Plant
ug/L = Micrograms per Liter

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FIGURES

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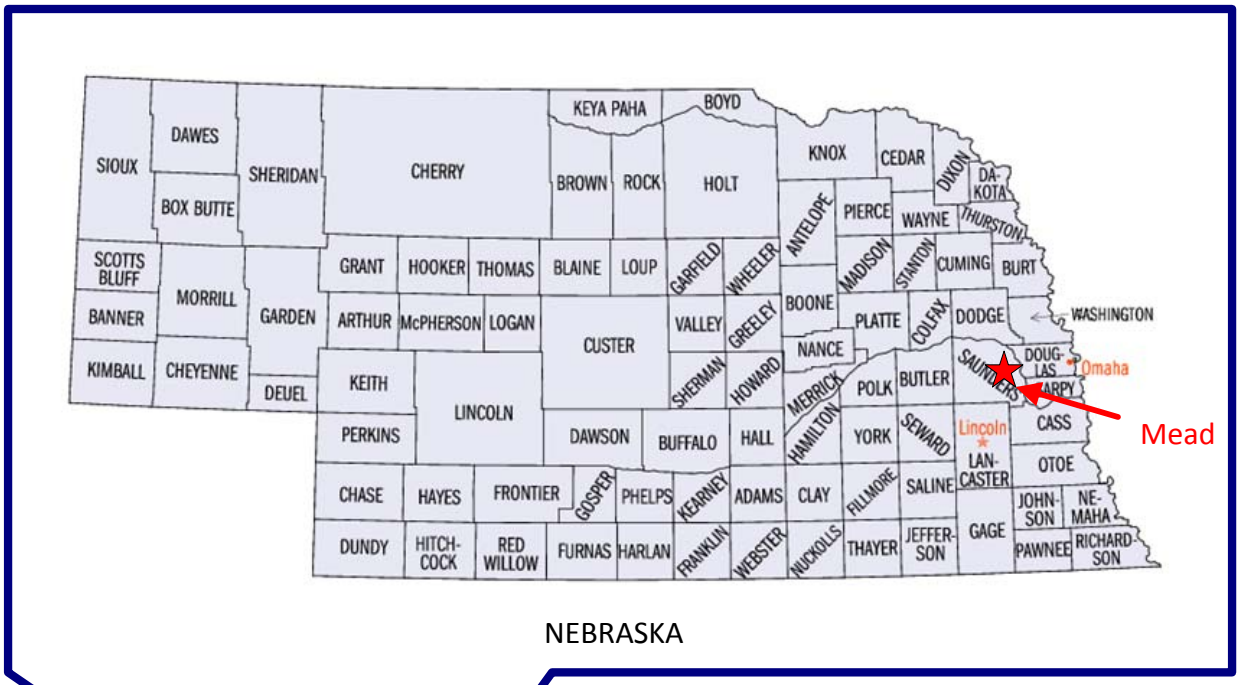

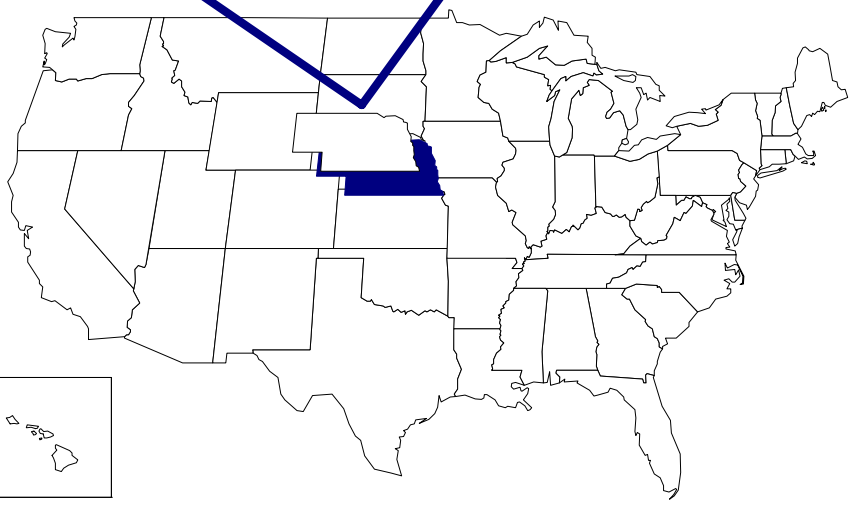

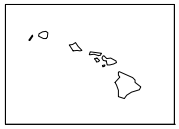

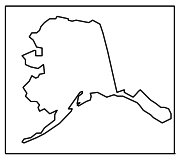

US Army Corps of Engineers ®
Kansas City District

Designed by: DM	FORMER NEBRASKA ORDNANCE PLANT MEAD, NEBRASKA	
Drawn by: ROW	Site Location Map	
Checked by: BB		
Submitted by: MJ	Drawing No: Figure 1-1	Date: 1/8/2010

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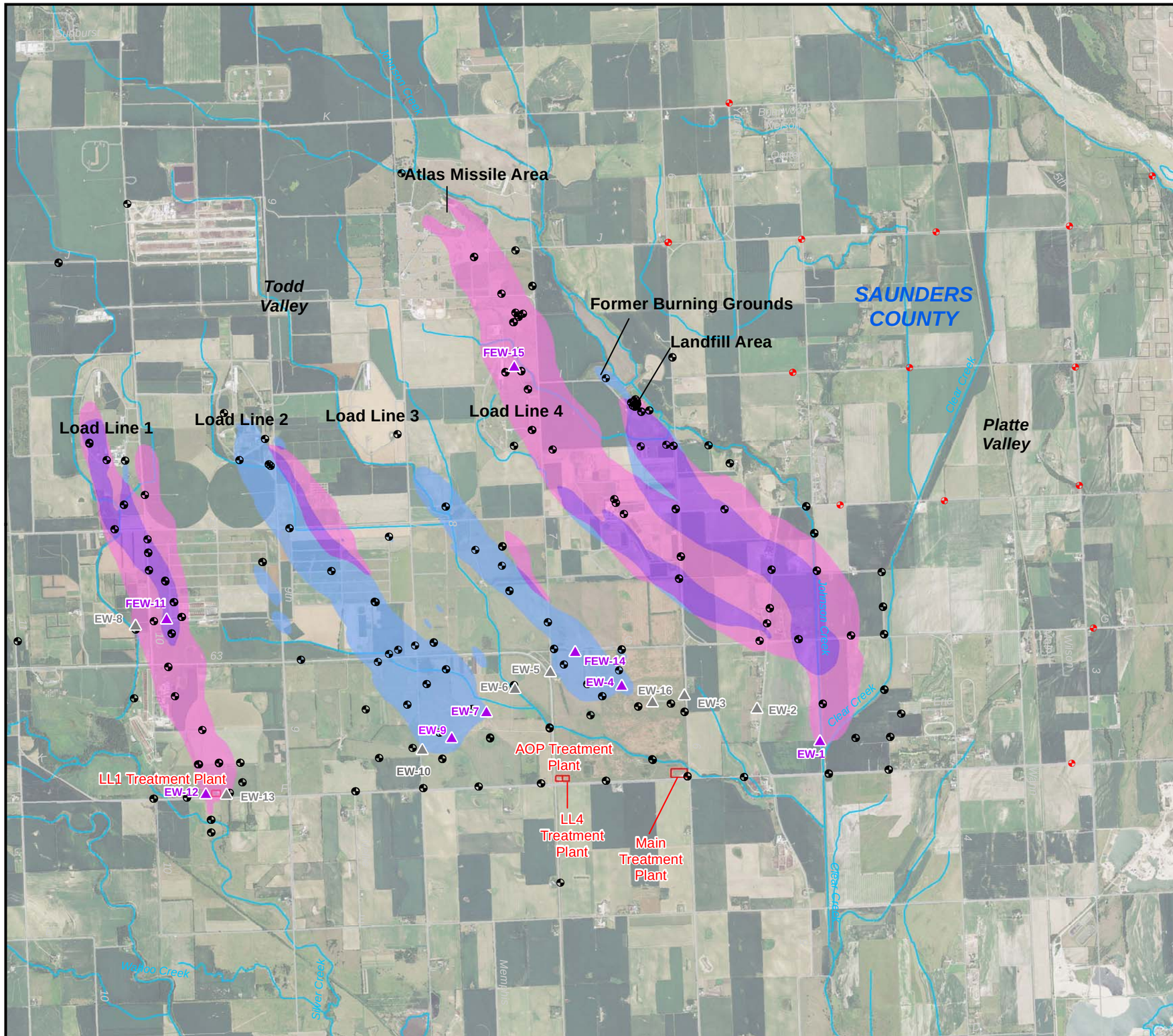

Legend

- USACE Extraction Well - Active
- USACE Extraction Well - Inactive
- USACE Monitoring Well
- Metropolitan Utility District Monitoring Well
- Approximate Area of TCE at a Concentration of 5 ug/L or Greater (2012)
- Approximate Area of RDX at a Concentration of 2 ug/L or Greater (2012)
- Approximate Area of Both TCE at a Concentration of 5 ug/L or Greater and RDX at a Concentration of 2 ug/L or Greater (2012)
- Treatment Plant
- Metropolitan Utility District Extraction Well

Notes:

1. TCE and RDX Plume Delineations for 2012 are based on Groundwater Monitoring Program Data, Direct-Push Data, and other Data. The Plume Delineations represent a Combination of the Shallow Zone Data and the Intermediate Zone Data.

2. EW-3, EW-6 and EW-16 shown as inactive were turned off January 1, 2013

TCE - trichloroethene

RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine

ug/L - micrograms per liter

USACE - United States Army Corps of Engineers

2012 Aerial Photography
Saunders County
USDA-APFO NAIP

0 4,000
SCALE IN FEET

N

US Army Corps of Engineers
Kansas City District

Figure 1-2

Site Map

2012 Groundwater Model Update
Former NOP

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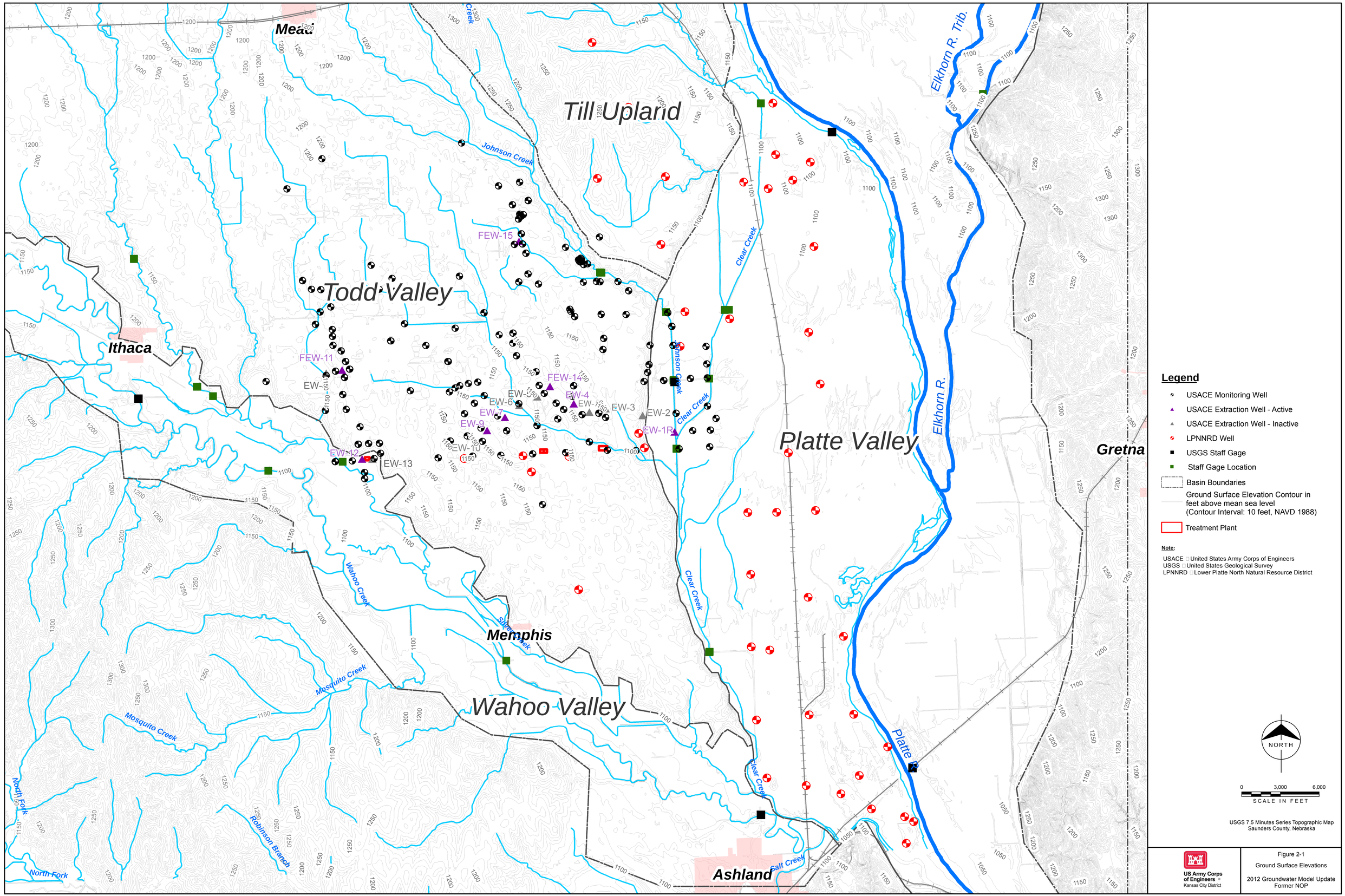

Figure 2-1

Ground Surface Elevations

2012 Groundwater Model Update
Former NOP

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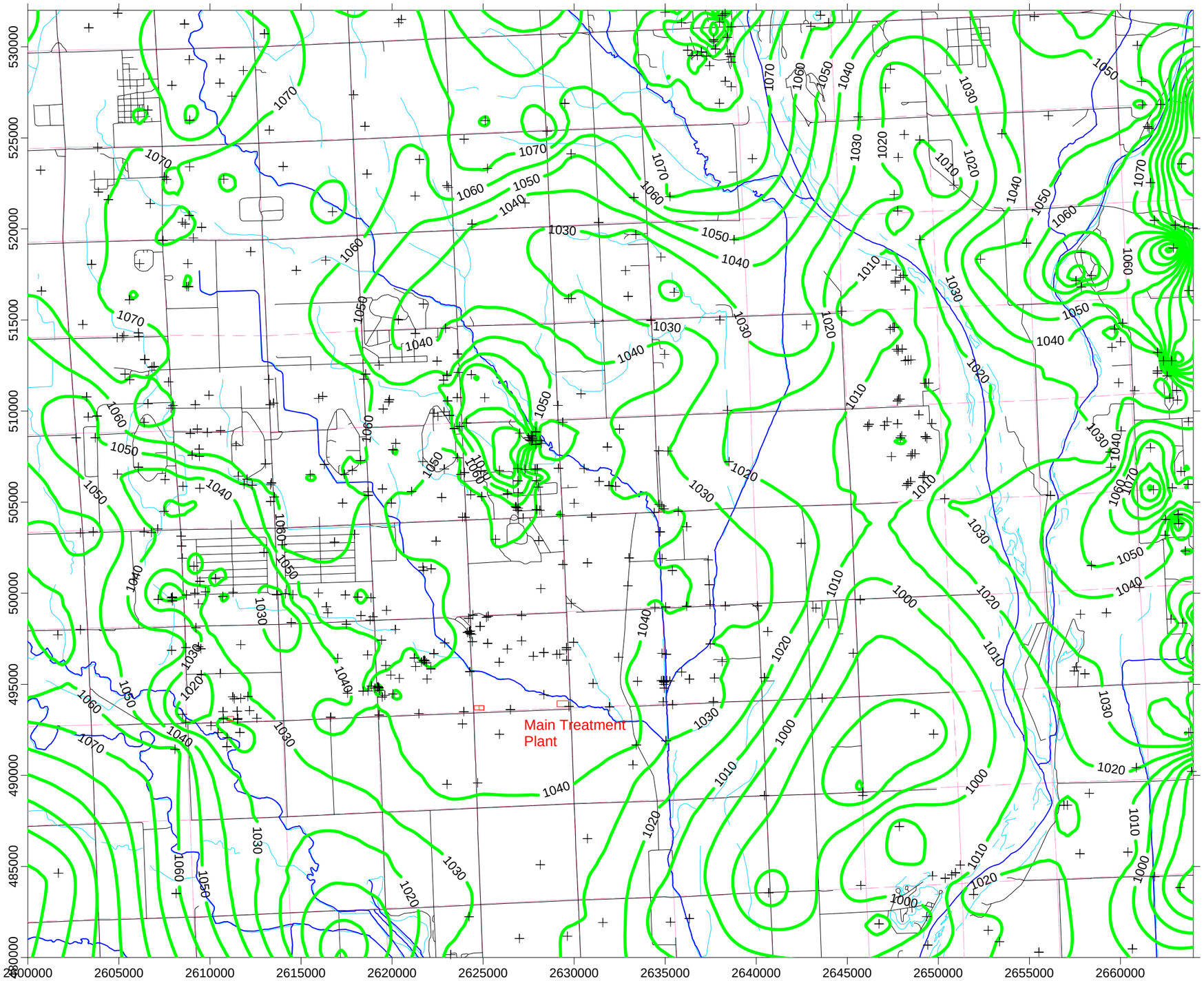

LEGEND

+	Registered Wells (as of December 2012)
1000	2012 Top of Bedrock Elevation Contour in feet above mean sea level (Contour Interval: 10 feet, NAVD 1988)
	Treatment Plant

Notes:
1) Although this contour is generated from data points, it is an interpretation using kriging. Discrepancies and variation in data quality required selective editing of data. The contour was generated by compiling data from the posted sources, and comparing the elevations to a digitized contour of the statewide "Configuration of the Base of the Principal Aquifer" (USGS, 1979, http://csd.unl.edu/general/gis-datasets.asp) Data points were also compared to each other, and outliers were removed. Where nearby data points conflicted, preference was given to data from borings sampled with discrete samplers such as the monitoring well borings and extraction well pilot holes. Among borings sampled from cuttings, preference was given to the USGS and Piskin test holes over irrigation well logs.

ft - feet
NAVD - North American Vertical Datum
USGS - United States Geological Survey

N

US Army Corps of Engineers
Kansas City District

Designed by: J.M.F.	2012 GROUNDWATER MODEL UPDATE OPERABLE UNIT NO. 2 (GROUNDWATER) FORMER NOP - MEAD, NE		
Drawn by: --	**Figure 2-2** **BEDROCK SURFACE ELEVATION**		
Checked by: --	Scale: As Indicated	Figure Number:	
Submitted by: --	Date:	**2-2**	
	Fig. No.:		

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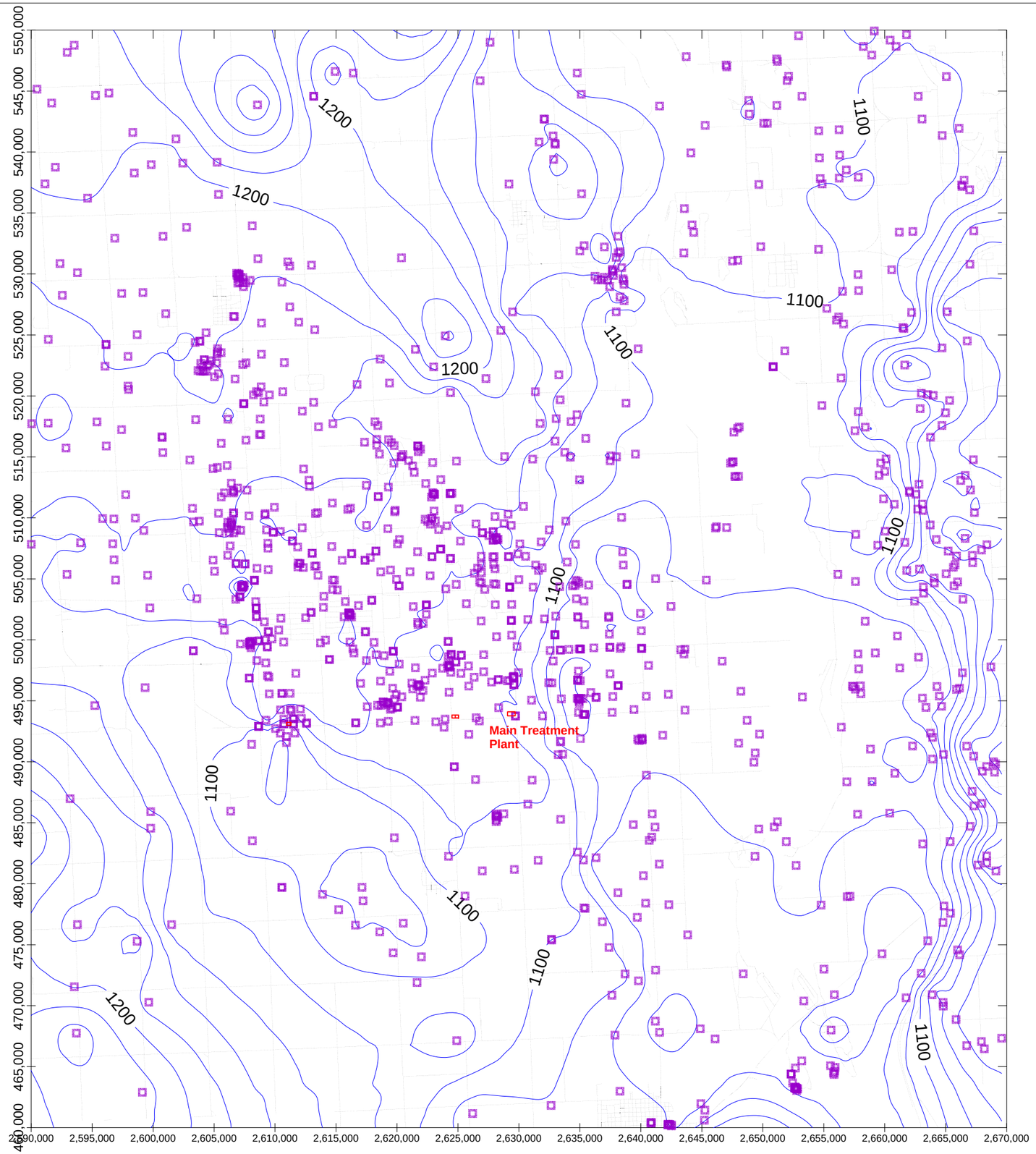

LEGEND

- 2012 Data Locations for Loess Contour
- 2012 Base of Loess Elevation Contour in feet above mean sea level (Contour Interval: 20 feet, NAVD 1988)
- Treatment Plant

N

0 5000 10000 15000 20000

US Army Corps of Engineers
Kansas City District

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
KANSAS CITY, MISSOURI

2012 GROUNDWATER MODEL UPDATE
OPERABLE UNIT NO. 2 (GROUNDWATER)
FORMER NOP - MEAD, NE

2012 ELEVATION OF BASE OF LOESS AND OVERBANK FINES

Designed by:	DB
Drawn by:	DB
Checked by:	J. M. F.
Submitted by:	DB
Scale:	As Indicated
Date:	May 2012
Fig. No.:	2-3
Figure Number:	2-3

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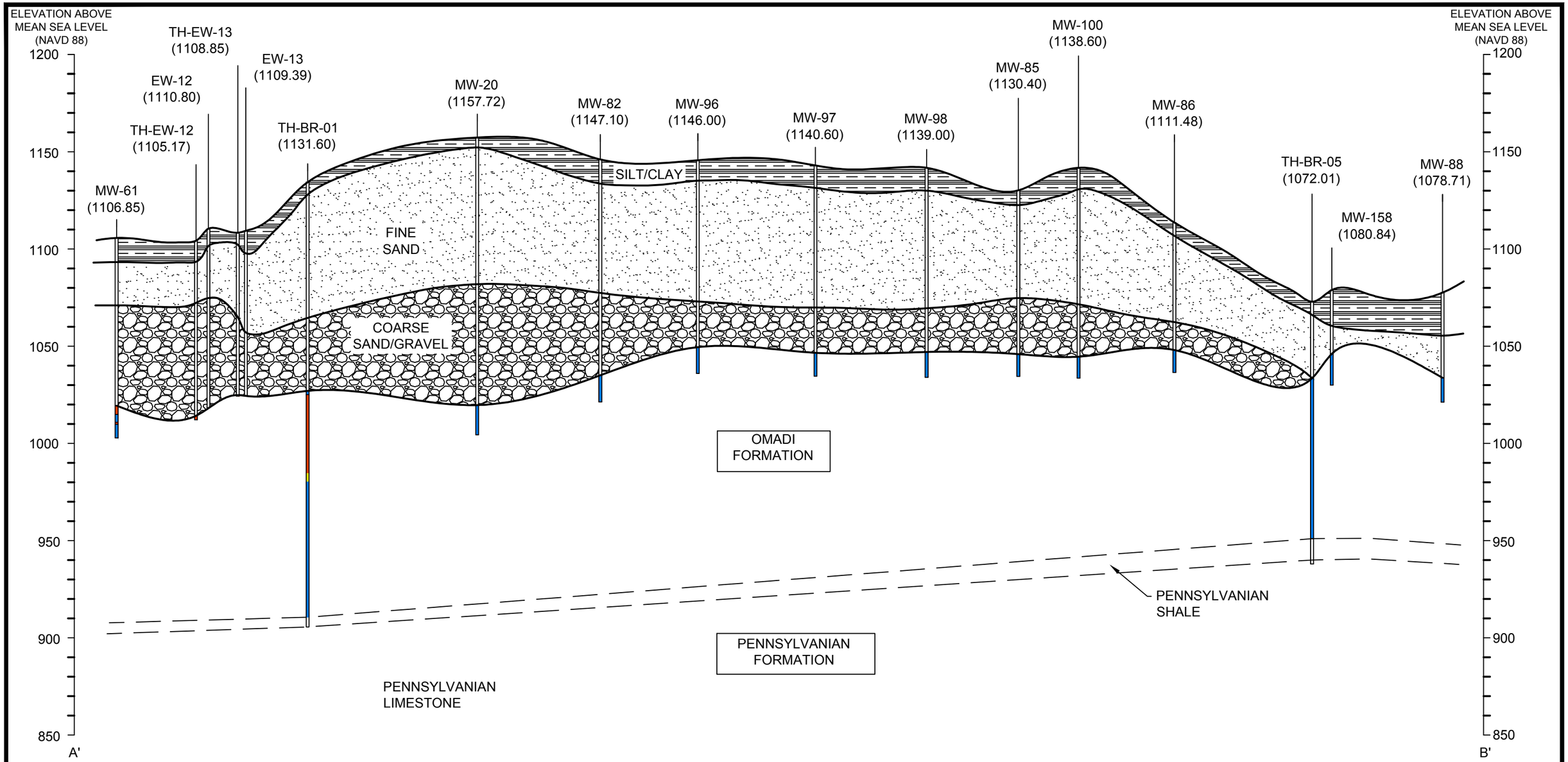

LEGEND:

MW	MONITORING WELL
TH	TEST HOLE
MW-6	LOCATION OF DEEPEST MONITORING WELL BORING IN EACH CLUSTER
EW-12	LOCATION OF EXTRACTION WELL
(1106.86)	GROUND SURFACE ELEVATION IN FEET ABOVE MEAN SEA LEVEL

- SILTSTONE
- SANDSTONE
- SHALE
- COARSE SAND/GRAVEL
- FINE SAND
- SILT/CLAY

NOTE:

1. SUBSURFACE CONDITIONS BASED ON SAMPLE DESCRIPTIONS FROM FIELD BORING LOGS. GEOLOGIC CONDITIONS SHOWN AWAY FROM BORINGS ARE INTERPRETIVE.

VERTICAL - 0 50' 100' SCALE IN FEET

HORIZONTAL - 0 3000' 6000' SCALE IN FEET

US Army Corps of Engineers ®
Kansas City District

Figure 2-4
COUNTY ROAD F
CROSS SECTION
FORMER NOP

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K:\ENV\ECC\SITE\51469\CAD\GEOLOGICAL XSECTS\51469-FIG 2-4-COUNTY RD-CROSS SECTION F.DWG 6/12/2013 2:24 PM TDUCKER

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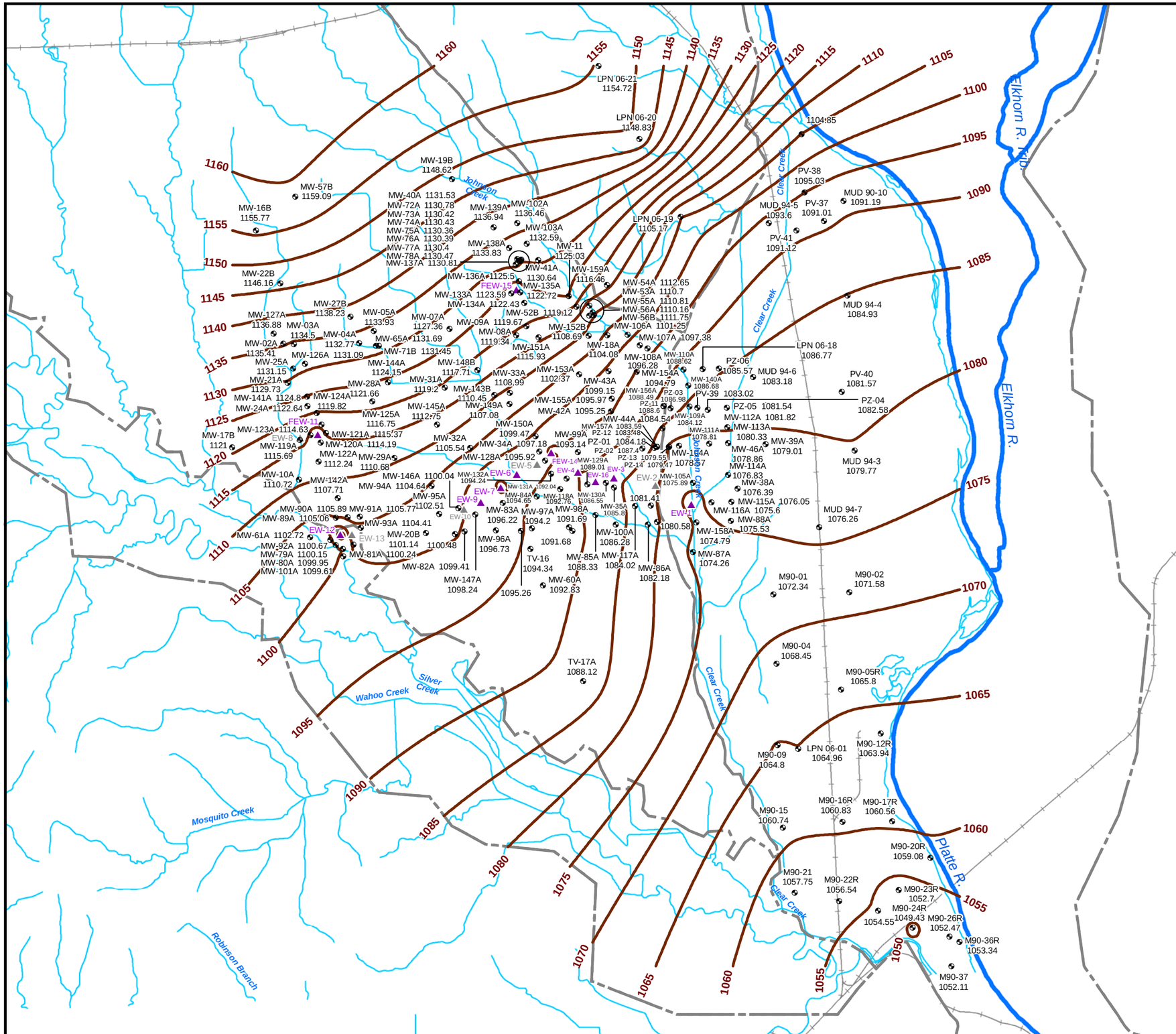

Legend

- Monitoring Well with March 2011 Water Level (Feet Above Mean Sea Level)
- USACE Extraction Well - Active
- USACE Extraction Well - Inactive
- March 2011 Groundwater Contour in Feet Above Mean Sea Level (Contour Interval 5 Feet)
- Basin Boundaries

Notes:

1. Observation well data were not plotted on this map; however, they were used in its construction.
2. March 2011 data collected on 3/29/11.

NOP - Nebraska Ordnance Plant

USACE - United States Army Corps of Engineers

N

0 7,000 14,000

SCALE IN FEET

US Army Corps of Engineers
Kansas City District

Figure 2-5

Interpreted Potentiometric Surface
Intermediate Zone - March 2011
2012 Groundwater Model Update
Former NOP

K:\ENV\ECC\site\51469\Data\GIS\2013\2012GWM\Fig2-5_Interpreted_Potentiometric_Surface_ Mar29_ 2011.mxd jmf sos Mar 28, 2012

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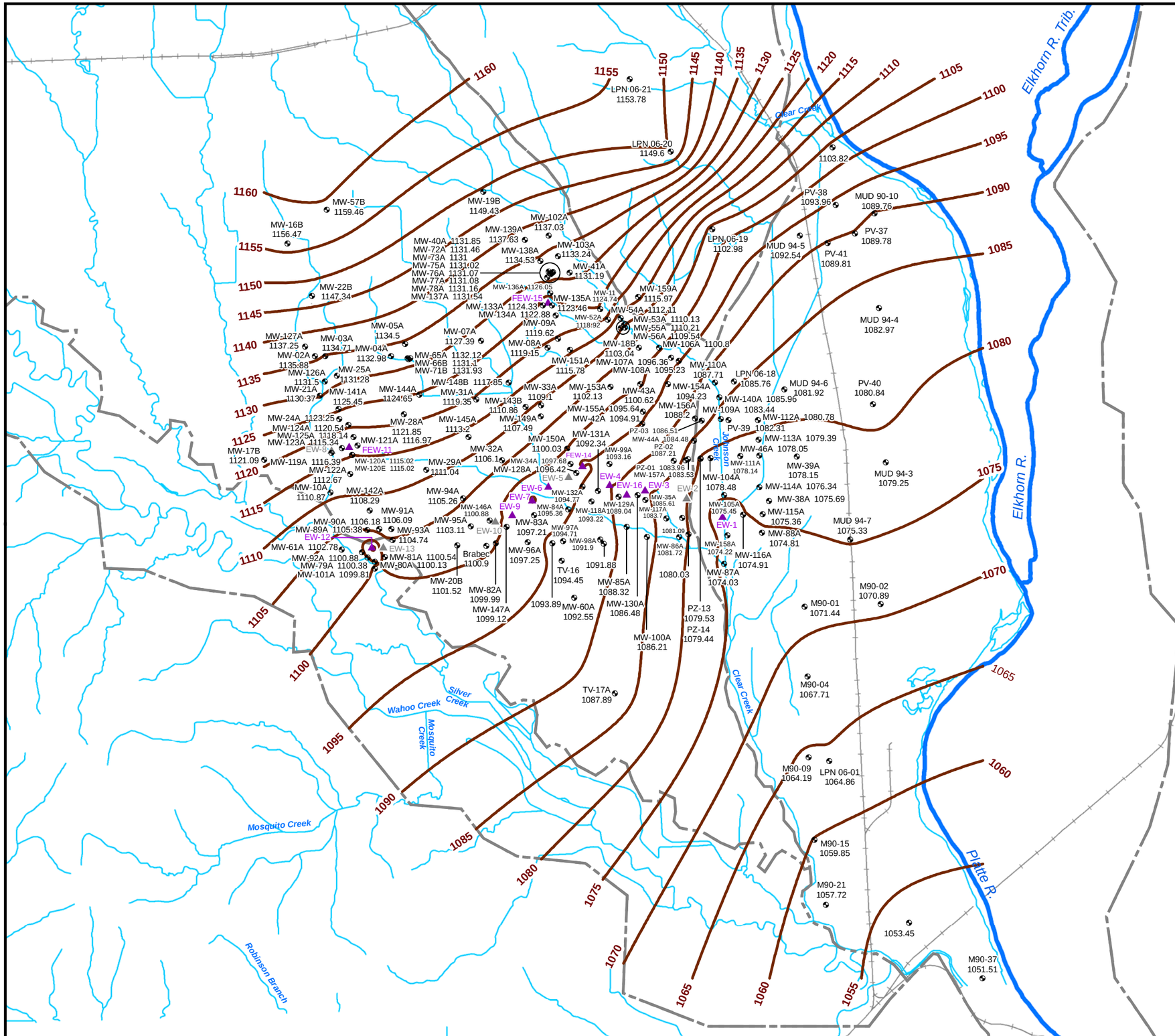

Legend

- Monitoring Well with August 2011 Water Level (Feet Above Mean Sea Level)
- USACE Extraction Well - Active
- USACE Extraction Well - Inactive
- August 2011 Groundwater Contour in Feet Above Mean Sea Level (Contour Interval 5 Feet)
- Basin Boundaries

Notes:

1. Observation well data were not plotted on this map; however, they were used in its construction.
2. August 2011 data collected on 8/26/11

NOP - Nebraska Ordnance Plant

USACE - United States Army Corps of Engineers

N

0 7,000 14,000

SCALE IN FEET

US Army Corps of Engineers ®
Kansas City District

Figure 2-6

Interpreted Potentiometric Surface
Intermediate Zone - August 2011
2012 Groundwater Model Update
Former NOP

K:\ENV\ECC\site\51469\Data\GIS\2013\2012GWM\Fig2-6_Interpreted_Potentiometric_Surface_ Aug26_2011.mxd sos jmf Mar 28, 2012

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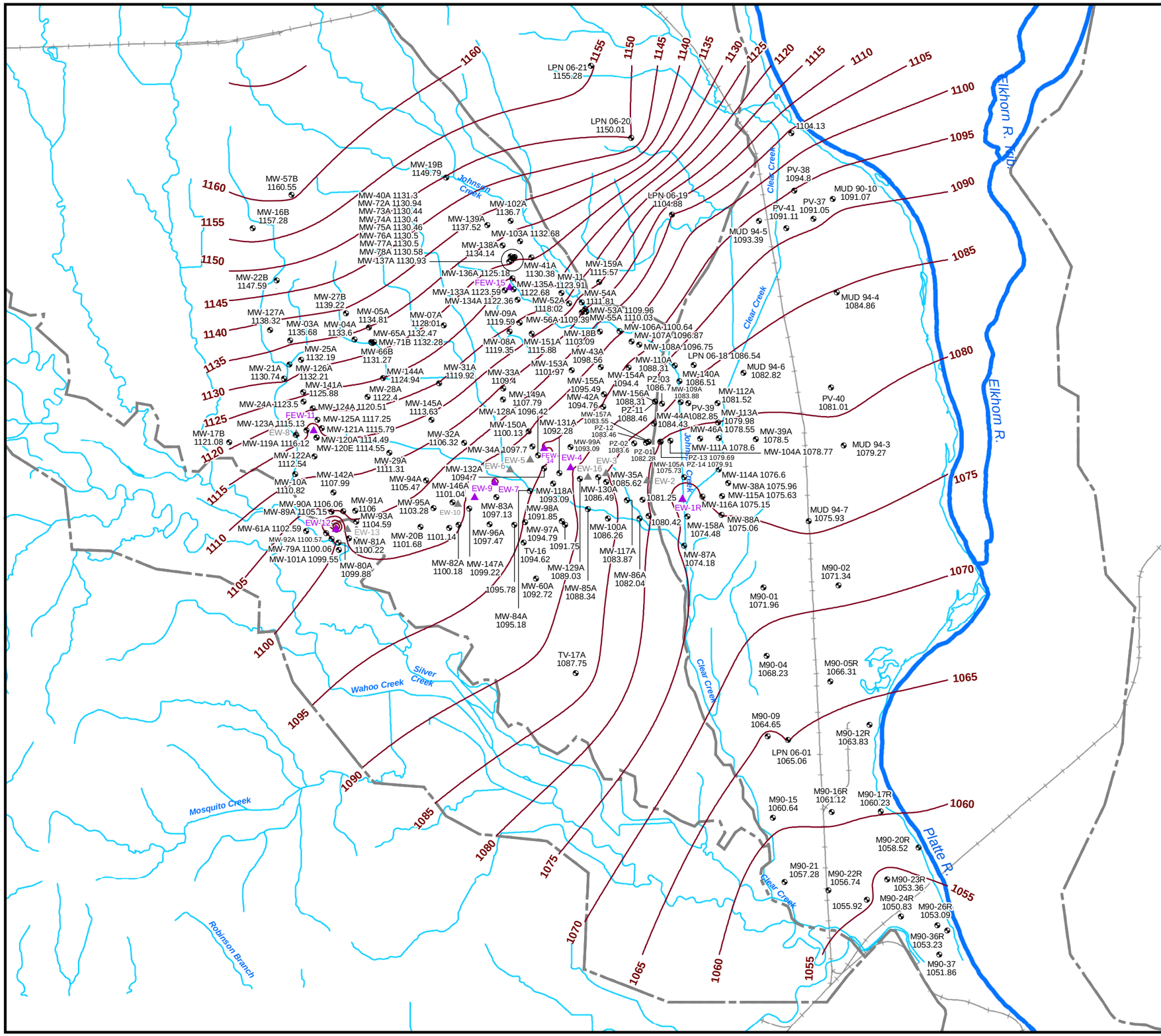

Legend

- Monitoring Well with March 2012 Water Level (Feet Above Mean Sea Level)
- USACE Extraction Well - Inactive
- USACE Extraction Well (Active)
- March 2012 Groundwater Contour in Feet Above Mean Sea Level (Contour Interval 5 Feet)
- Basin Boundaries

Notes:

1. Observation well data were not plotted on this map; however, they were used in its construction.
2. March 2012 data collected on 3/29/12.
3. EW-3, EW-6 and EW-16 shown as inactive were turned off January 1, 2013.

NOP - Nebraska Ordnance Plant

USACE - United States Army Corps of Engineers

N

0 7,000 14,000

SCALE IN FEET

US Army Corps of Engineers
Kansas City District

Figure 2-7

Interpreted Potentiometric Surface
Intermediate Zone - March 2012
2012 Groundwater Model Update
Former NOP

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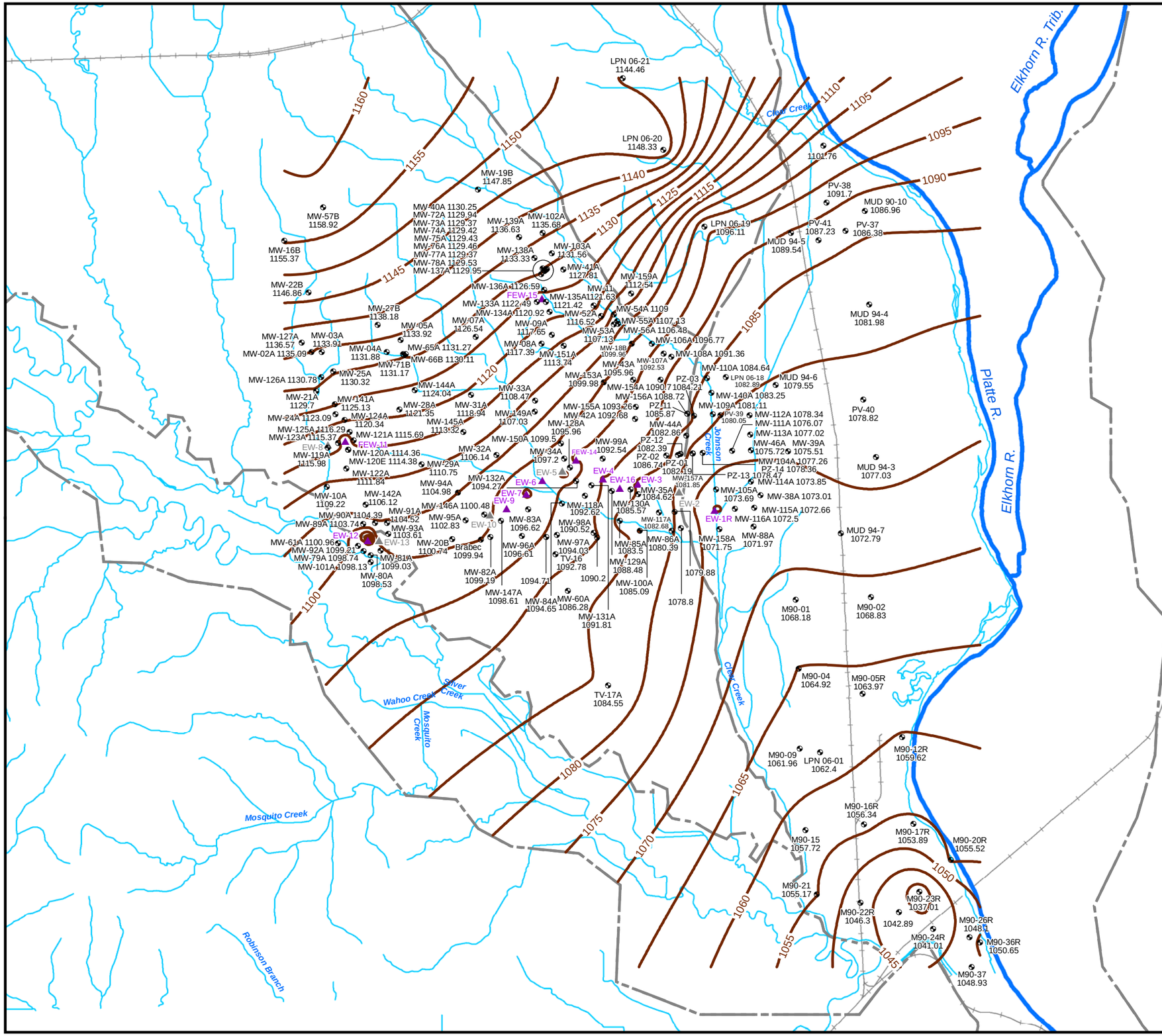

Legend

- Monitoring Well with August 2012 Water Level (Feet Above Mean Sea Level)
- USACE Extraction Well - Active
- USACE Extraction Well - Inactive
- August2012 Groundwater Contour in Feet Above Mean Sea Level (Contour Interval 5 Feet)
- Basin Boundaries

Notes:

1. Observation well data were not plotted on this map; however, they were used in its construction.
2. August 2011 data collected on 8/26/11
3. EW-3, EW-6, and EW-16 shown as inactive were turned off January 1, 2013.

NOP - Nebraska Ordnance Plant

USACE - United States Army Corps of Engineers

N

0 7,000 14,000

SCALE IN FEET

US Army Corps of Engineers ®
Kansas City District

Figure 2-8

Interpreted Potentiometric Surface
Intermediate Zone - August 2012
2012 Groundwater Model Update
Former NOP

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Figure 2-9
Platte River at Venice Stage versus Time
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

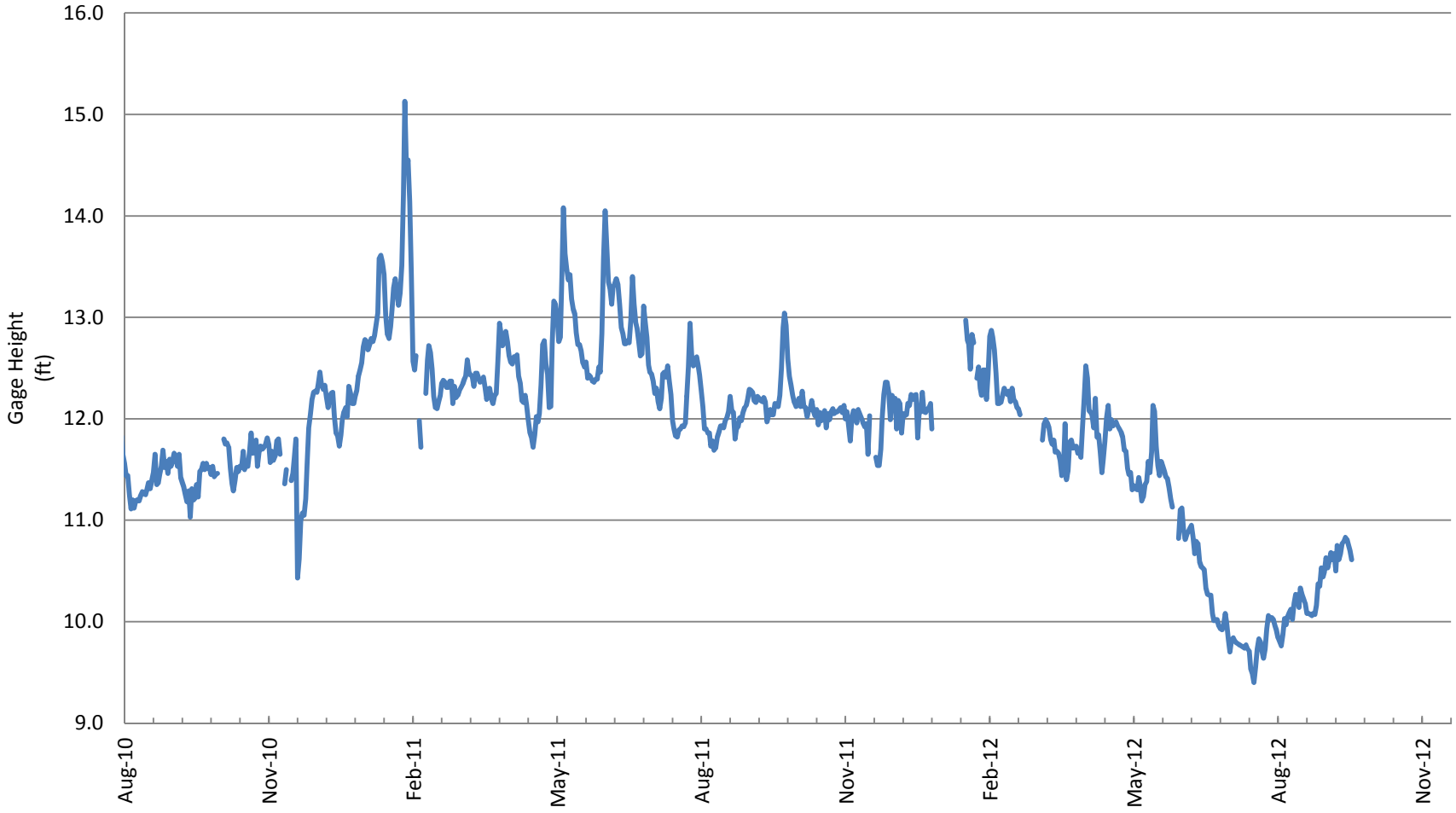

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Figure 2-10
Annual Precipitation 2011-2012
2012 Groundwater Model Update
Former NOP, Mead, Nebraska

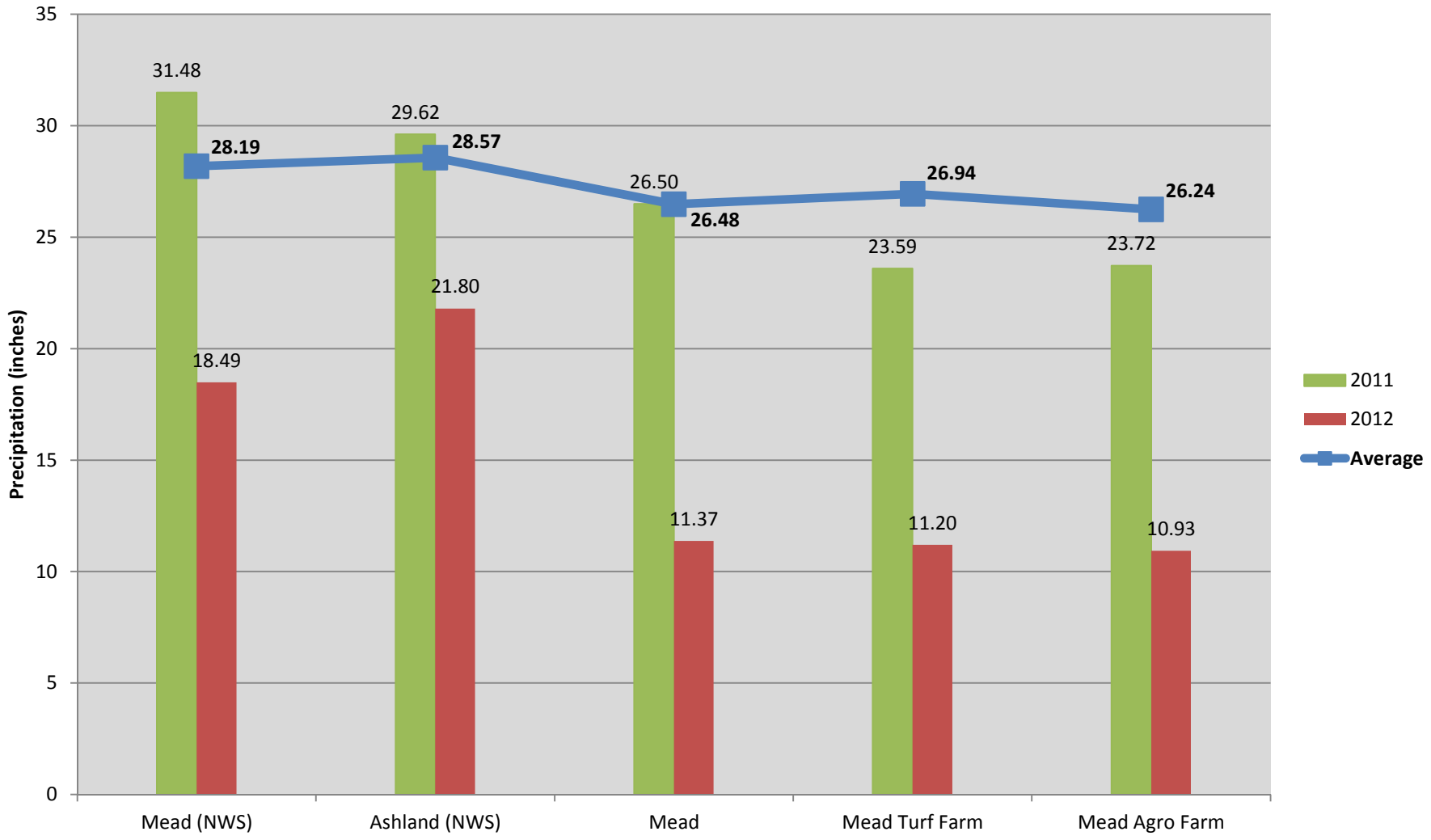

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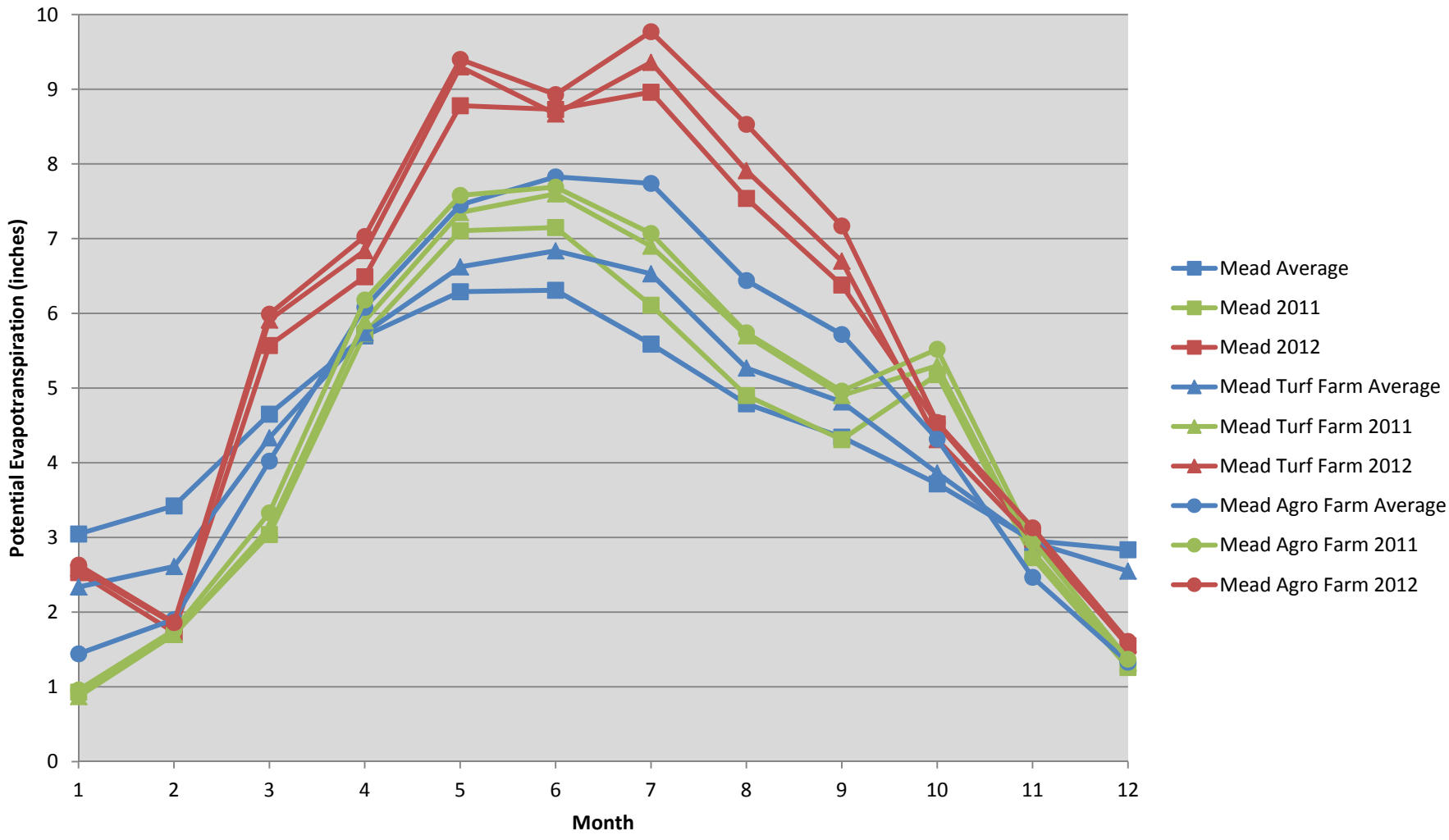
Figure 2-11
Monthly Potential Evapotranspiration 2011-2012
2012 Groundwater Model Update
Former NOP, Mead, Nebraska



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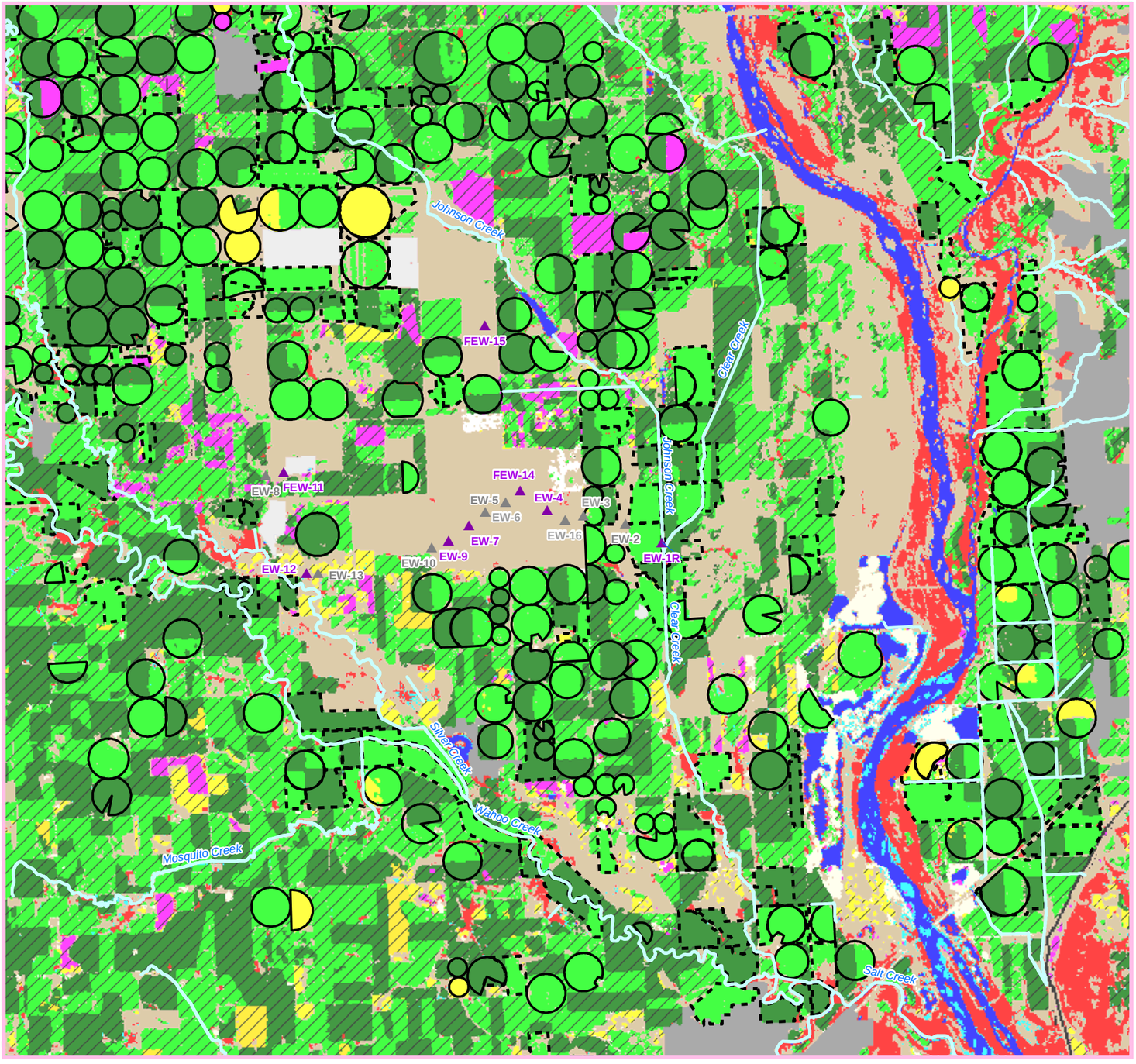

Legend

Land Use (CALMIT, 2005)

- Irrigated Corn
- Irrigated Soybeans
- Irrigated Sorghum (Milo, Sudan)
- Irrigated Alfalfa
- Irrigated Small Grains
- Range, Pasture, Grass
- Urban Land
- Open Water
- Riparian Forest and Woodlands
- Wetlands
- Other Agricultural Land
- Summer Fallow
- Roads
- Dryland Corn
- Dryland Soybeans
- Dryland Sorghum
- Dryland Alfalfa
- Dryland Small Grains
- Barren
- Model Extent
- Center Pivot Irrigation (CALMIT, 2005)
- Other irrigation (CALMIT, 2005)
- USACE Extraction Well - Active
- USACE Extraction Well - Inactive

Land use and irrigation data from the Center for Advanced Land Management Information Technologies (CALMIT), 2005

N

8,000 0 8,000

SCALE IN FEET

US Army Corps of Engineers ®
Kansas City District

Figure 2-12

Land Use
(CALMIT 2005)

2012 Groundwater Model Update
Former NOP

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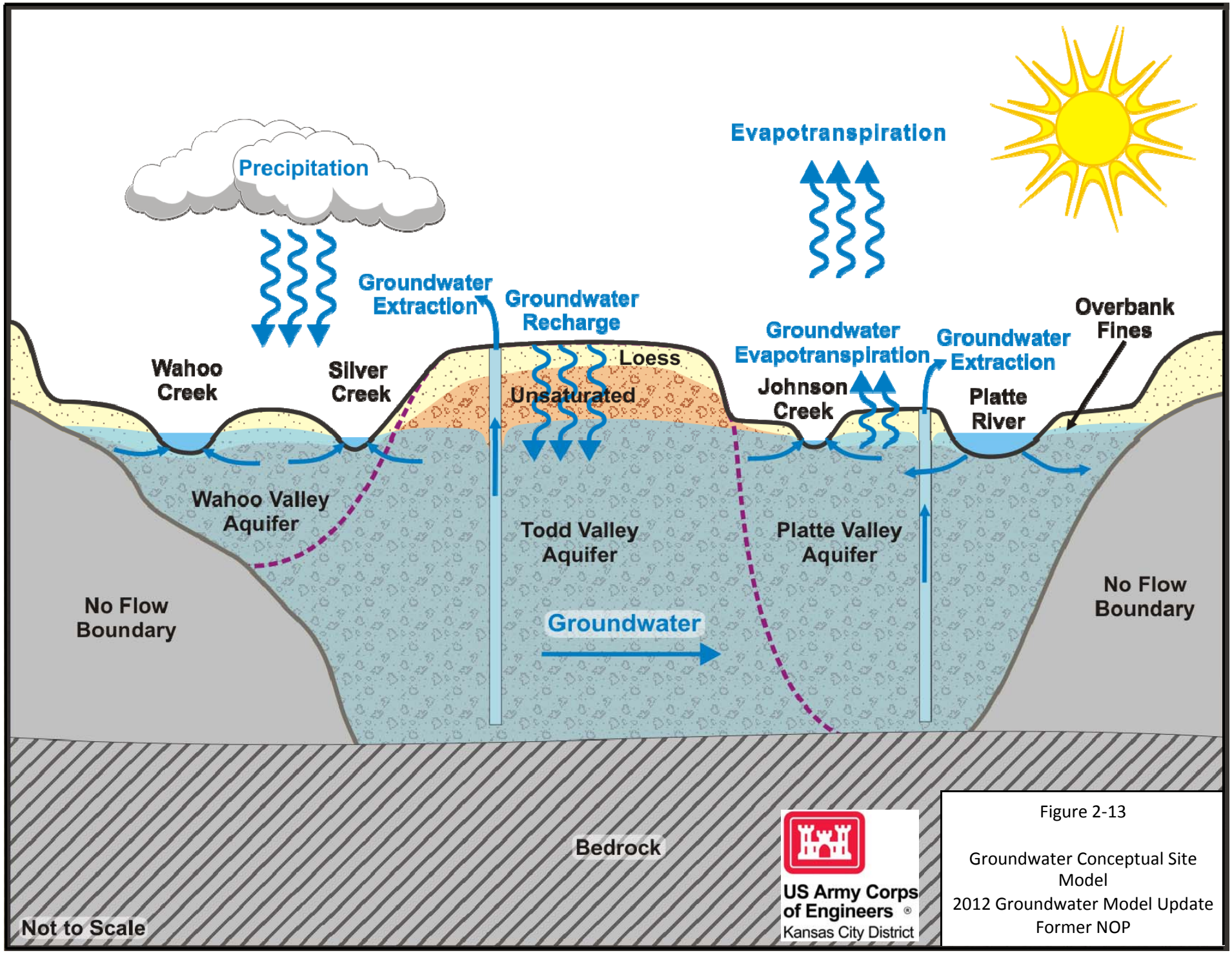

Figure 2-13

Groundwater Conceptual Site Model
2012 Groundwater Model Update
Former NOP

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Legend

- USACE Extraction Well - Active
- USACE Extraction Well - Inactive
- USACE Monitoring Well
- Observation Well
- Piezometer
- Surface Water Measurement/Sampling Location
- Drain Tile or Seep (DT or SP)
- ART Property

Wetlands

- Freshwater Emergent Wetland
- Freshwater Pond
- Section Lines
- Valley Wall
- 34 Township/Range Section No.

Notes:

USACE - United States Army Corps of Engineers
CC - Clear Creak
DT - Drain Tile
JC - Johnson Creek
SP - Seep
SW - Surface Water

N

0 1,200 2,400

SCALE IN FEET

US Army Corps of Engineers ®
Kansas City District

Figure 2-14

Johnson Creek Area and Extended Monitoring Locations

2012 Groundwater Modeling Update
Former NOP

K:\ENV\ECC\site\51469\Data\GIS\2013\2012 GWM\Fig2-14_Johnson Creek_Surface Water_Sampling_Location_17x11.mxd sos jmf May 28, 2013

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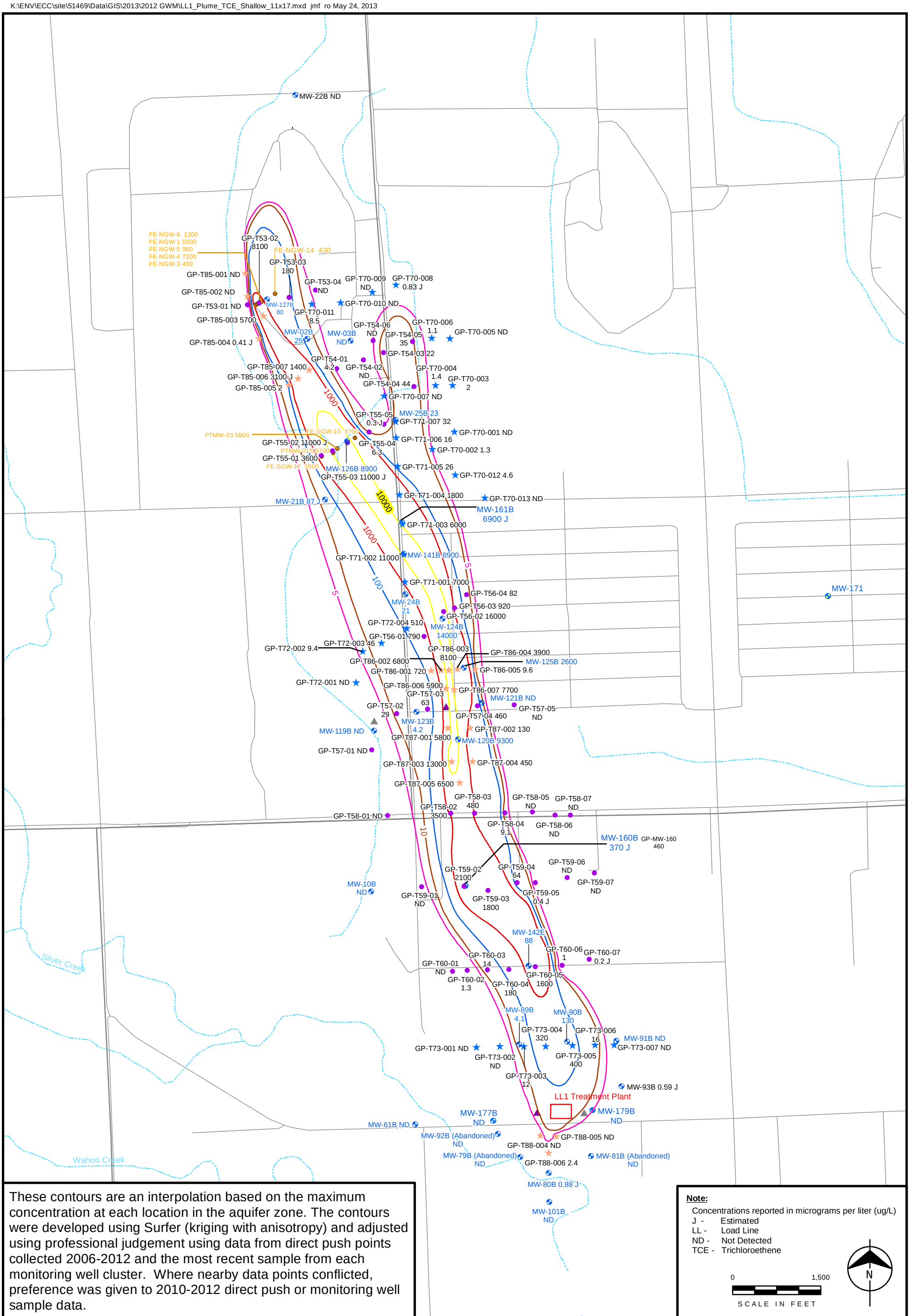

These contours are an interpolation based on the maximum concentration at each location in the aquifer zone. The contours were developed using Surfer (kriging with anisotropy) and adjusted using professional judgement using data from direct push points collected 2006-2012 and the most recent sample from each monitoring well cluster. Where nearby data points conflicted, preference was given to 2010-2012 direct push or monitoring well sample data.

Note:

Concentrations reported in micrograms per liter (ug/L)
J - Estimated
LL - Load Line
ND - Not Detected
TCE - Trichloroethene

0 1,500
SCALE IN FEET

N

Legend

- 2008 Direct Push Sample
- 2010 Direct Push Sample
- 2011 Direct Push Sample
- Monitoring Well
- 2010-2012 Brown & Caldwell TCE Sample
- 2012 Shallow TCE Extent (5 ug/L)
- 10 ug/L
- 100 ug/L
- 1000 ug/L
- 10000 ug/L
- Extraction Well - Active
- Extraction Well - Inactive
- Treatment Plant

US Army Corps of Engineers
Kansas City District

Figure 3-1

Load Line 1 Plume
TCE Contaminant Distribution
Shallow Zone

2012 GWM Update

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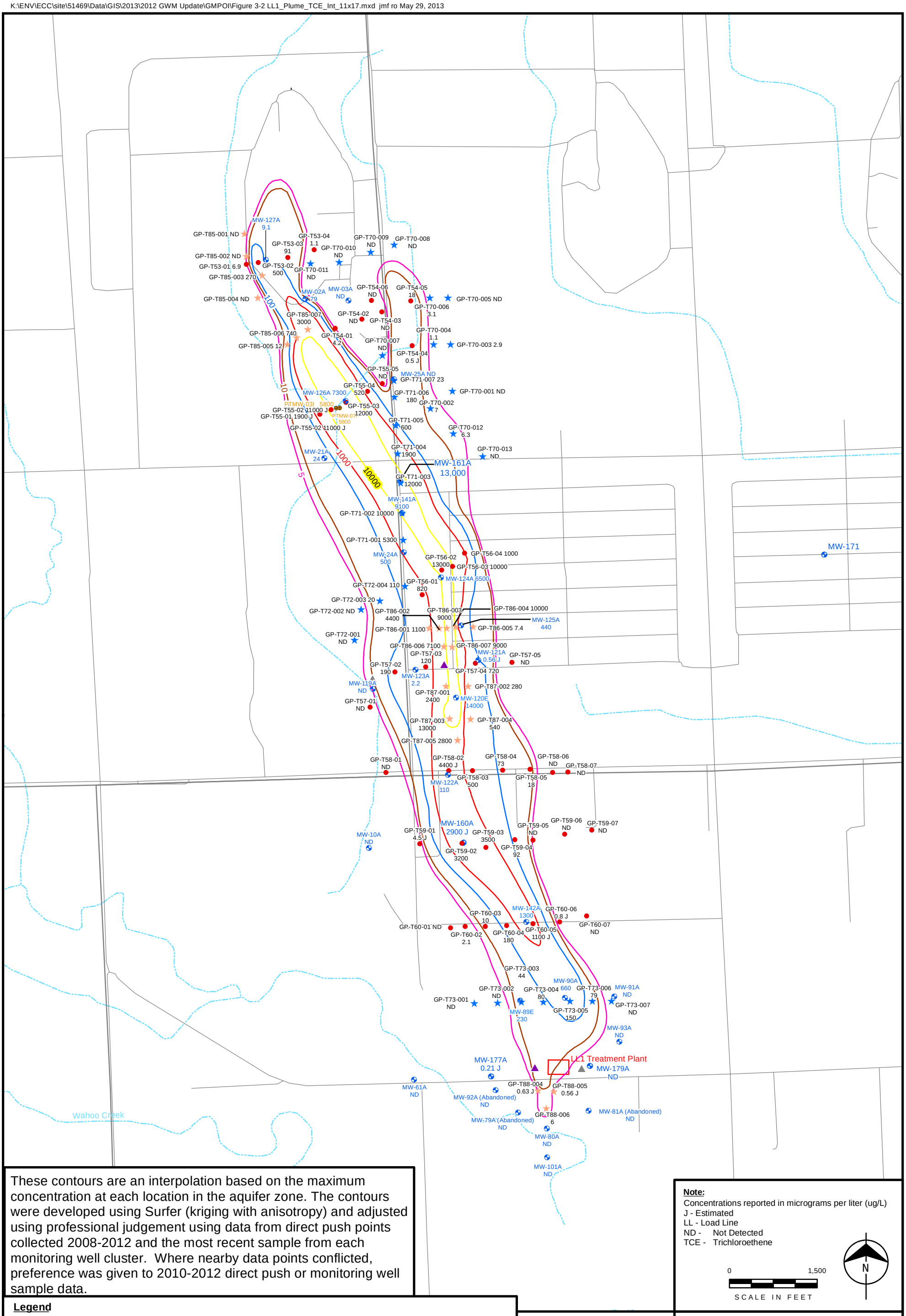

These contours are an interpolation based on the maximum concentration at each location in the aquifer zone. The contours were developed using Surfer (kriging with anisotropy) and adjusted using professional judgement using data from direct push points collected 2008-2012 and the most recent sample from each monitoring well cluster. Where nearby data points conflicted, preference was given to 2010-2012 direct push or monitoring well sample data.

Note:
Concentrations reported in micrograms per liter (ug/L)
J - Estimated
LL - Load Line
ND - Not Detected
TCE - Trichloroethene

0 1,500
SCALE IN FEET

N

Legend

- 2008 Direct Push Sample
- 2010 Direct Push Sample
- 2011 Direct Push Sample
- Monitoring Well
- Brown & Caldwell 2012 TCE Sample
- Treatment Plant
- Extraction Well - Active
- Extraction Well - Inactive
- 2012 Intermediate TCE Extent (5 ug/L)
- 10 ug/L
- 100 ug/L
- 1000 ug/L
- 10000 ug/L

Data in Blue indicates 2012 Data

US Army Corps of Engineers
Kansas City District

Figure 3-2

Load Line 1 Plume
TCE Contaminant Distribution
Intermediate Zone

2012 GWM Update

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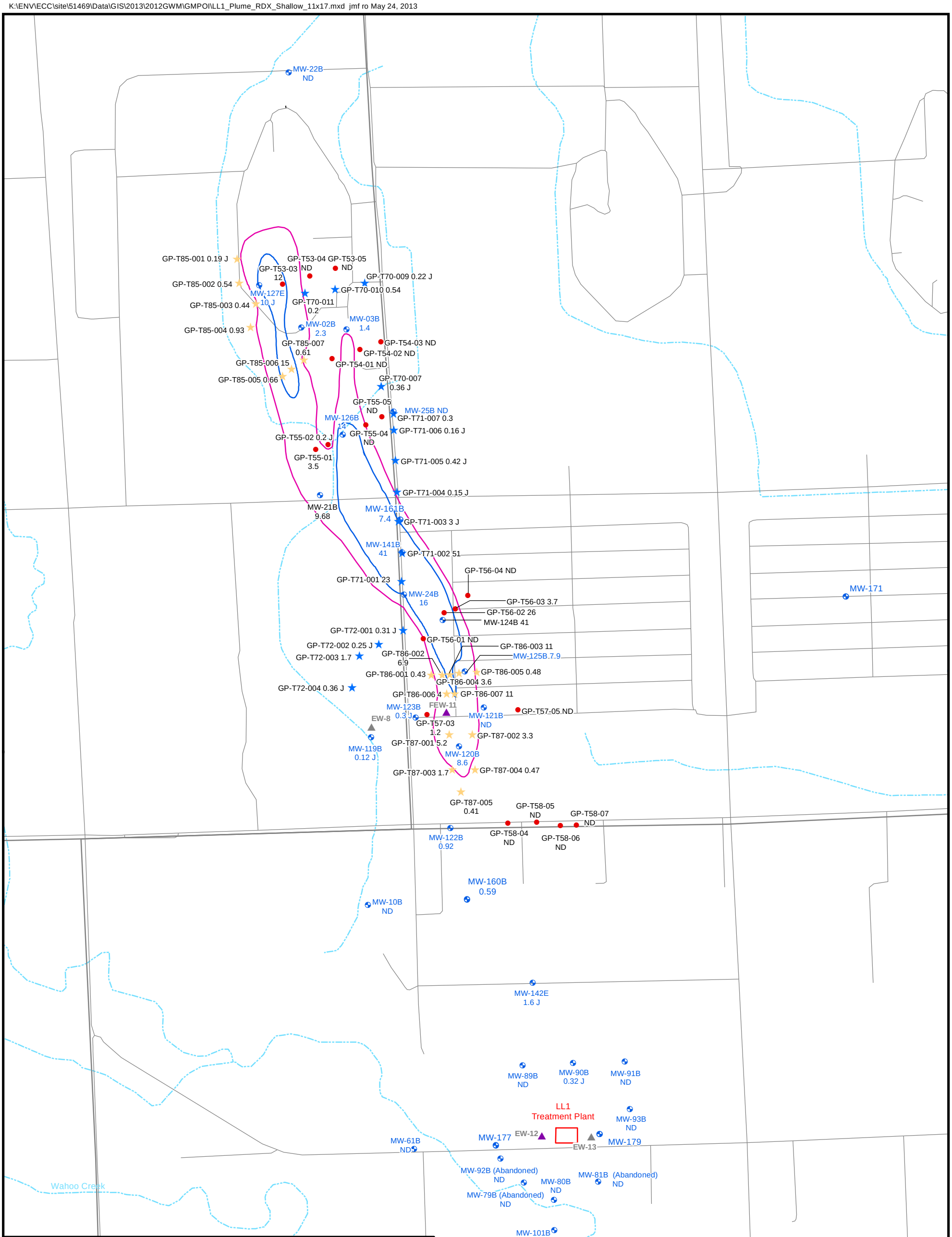

These contours are an interpolation based on the maximum concentration at each location in the aquifer zone. The contours were developed using Surfer (kriging with anisotropy) and adjusted using professional judgement using data from direct push points collected 2006-2012 and the most recent sample from each monitoring well cluster. Where nearby data points conflicted, preference was given to 2010-2012 direct push or monitoring well sample data.

Note:

Concentrations reported in micrograms per liter (ug/L)
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
J - Estimated
LL - Load Line
ND - Not Detected

0 1,500
SCALE IN FEET

N

Legend

- 2008 Direct Push Sample
- 2010 Direct Push Sample
- 2011 Direct Push Sample
- Monitoring Well
- Treatment Plant
- 2012 Shallow RDX Extent (2 ug/L)
- 10 ug/L
- Extraction Well - Active
- Extraction Well - Inactive

Data in Blue indicates 2012 Data

US Army Corps of Engineers®
Kansas City District

Figure 3-3

Load Line 1 Plume
RDX Contaminant Distribution
Shallow Zone

2012 GWM Update

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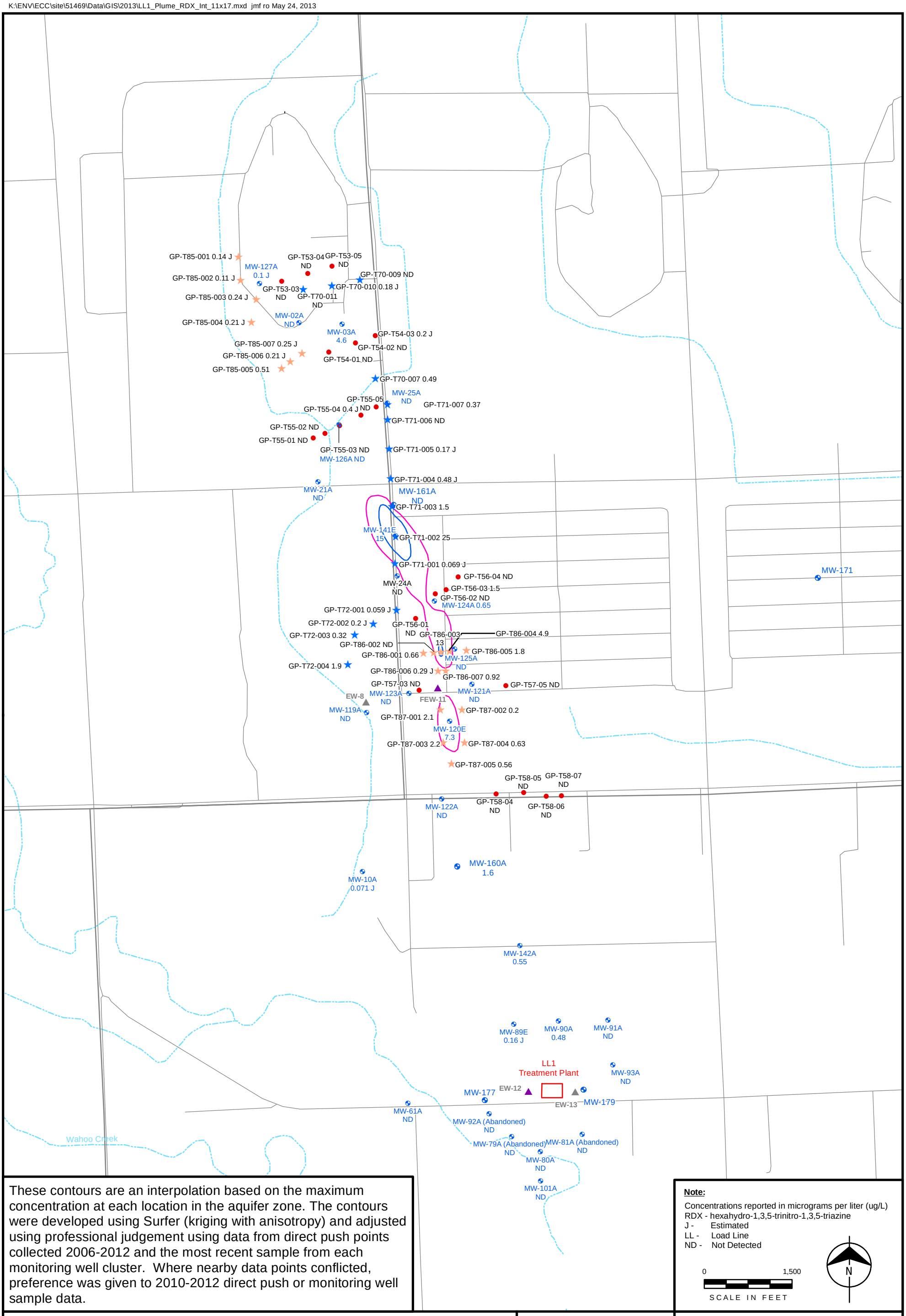

These contours are an interpolation based on the maximum concentration at each location in the aquifer zone. The contours were developed using Surfer (kriging with anisotropy) and adjusted using professional judgement using data from direct push points collected 2006-2012 and the most recent sample from each monitoring well cluster. Where nearby data points conflicted, preference was given to 2010-2012 direct push or monitoring well sample data.

Note:

Concentrations reported in micrograms per liter (ug/L)
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
J - Estimated
LL - Load Line
ND - Not Detected

0 1,500
SCALE IN FEET

N

Legend

- 2008 Direct Push Sample
- 2010 Direct Push Sample
- 2011 Direct Push Sample
- Monitoring Well
- Treatment Plant
- 2012 Intermediate RDX Extent (2 ug/L)
- 10 ug/L
- Extraction Well - Active
- Extraction Well - Inactive

Data in Blue indicates 2012 Data

US Army Corps of Engineers ®
Kansas City District

Figure 3-4

Load Line 1 Plume
RDX Contaminant Distribution
Intermediate Zone

2012 GWM Update

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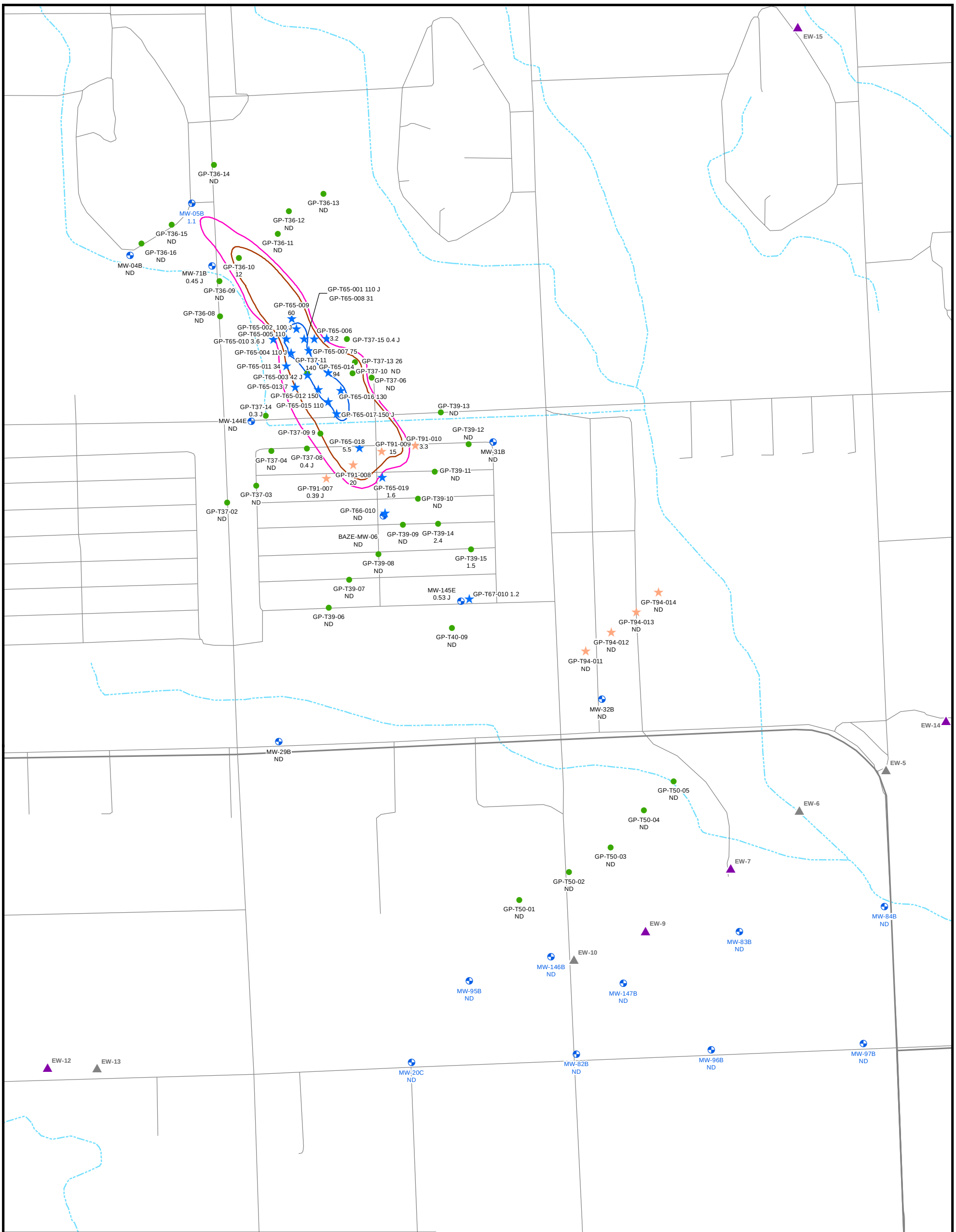

These contours are an interpolation based on the maximum concentration at each location in the aquifer zone. The contours were developed using Surfer (kriging with anisotropy) and adjusted using professional judgement using data from direct push points collected 2006-2012 and the most recent sample from each monitoring well cluster. Where nearby data points conflicted, preference was given to 2010-2012 direct push or monitoring well sample data.

Note:

Concentrations reported in micrograms per liter (ug/L)
J - Estimated
ND - Not Detected
TCE - trichloroethene

0 1,200
SCALE IN FEET

N

Legend

- 2007 Direct Push Sample
- 2010 Direct Push Sample
- 2011 Direct Push Sample
- Monitoring Well
- 2012 Shallow TCE Extent (5 ug/L)
- 10 ug/L
- 100 ug/L
- Extraction Well - Active
- Extraction Well - Inactive

Data in Blue indicates 2012 Data

US Army Corps of Engineers ®
Kansas City District

Figure 3-5

Load Line 2 Plume
TCE Contaminant Distribution
Shallow Zone

2012 GWM Update

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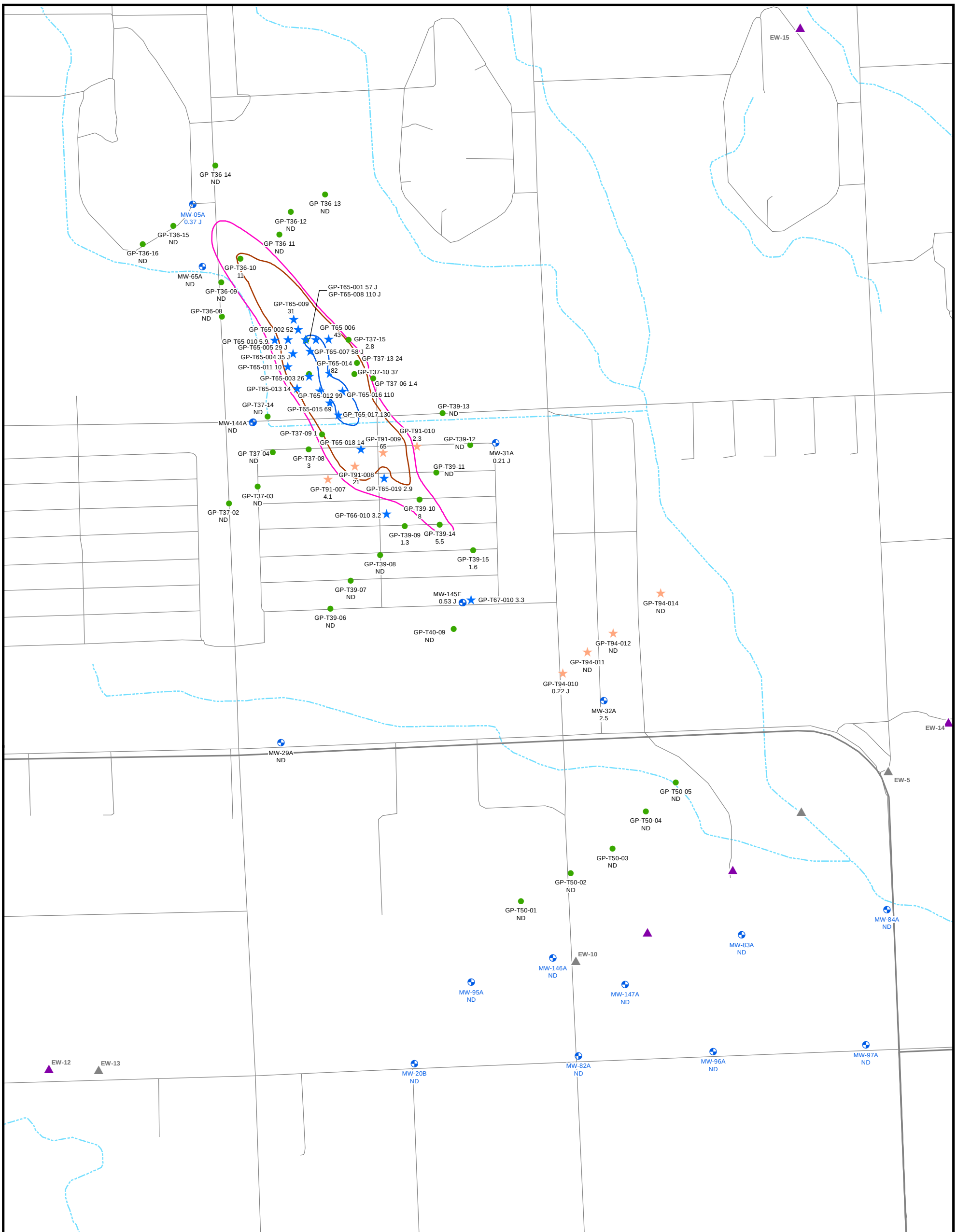

These contours are an interpolation based on the maximum concentration at each location in the aquifer zone. The contours were developed using Surfer (kriging with anisotropy) and adjusted using professional judgement using data from direct push points collected 2006-2011 and the most recent sample from each monitoring well cluster. Where nearby data points conflicted, preference was given to 2010-2011 direct push or monitoring well sample data.

Note:

Concentrations reported in micrograms per liter (ug/L)
J - Estimated
ND - Not Detected
TCE - trichloroethene

0 1,500
SCALE IN FEET

N

Legend

- 2007 Direct Push Sample
- 2010 Direct Push Sample
- 2011 Direct Push Sample
- Monitoring Well
- 2012 Intermediate TCE Extent (5 ug/L)
- 10 ug/L
- 100 ug/L
- Extraction Well - Active
- Extraction Well - Inactive

Data in Blue indicates 2012 Data

US Army Corps of Engineers ®
Kansas City District

Figure 3-6

Load Line 2 Plume
TCE Contaminant Distribution
Intermediate Zone

2012 GWM Update

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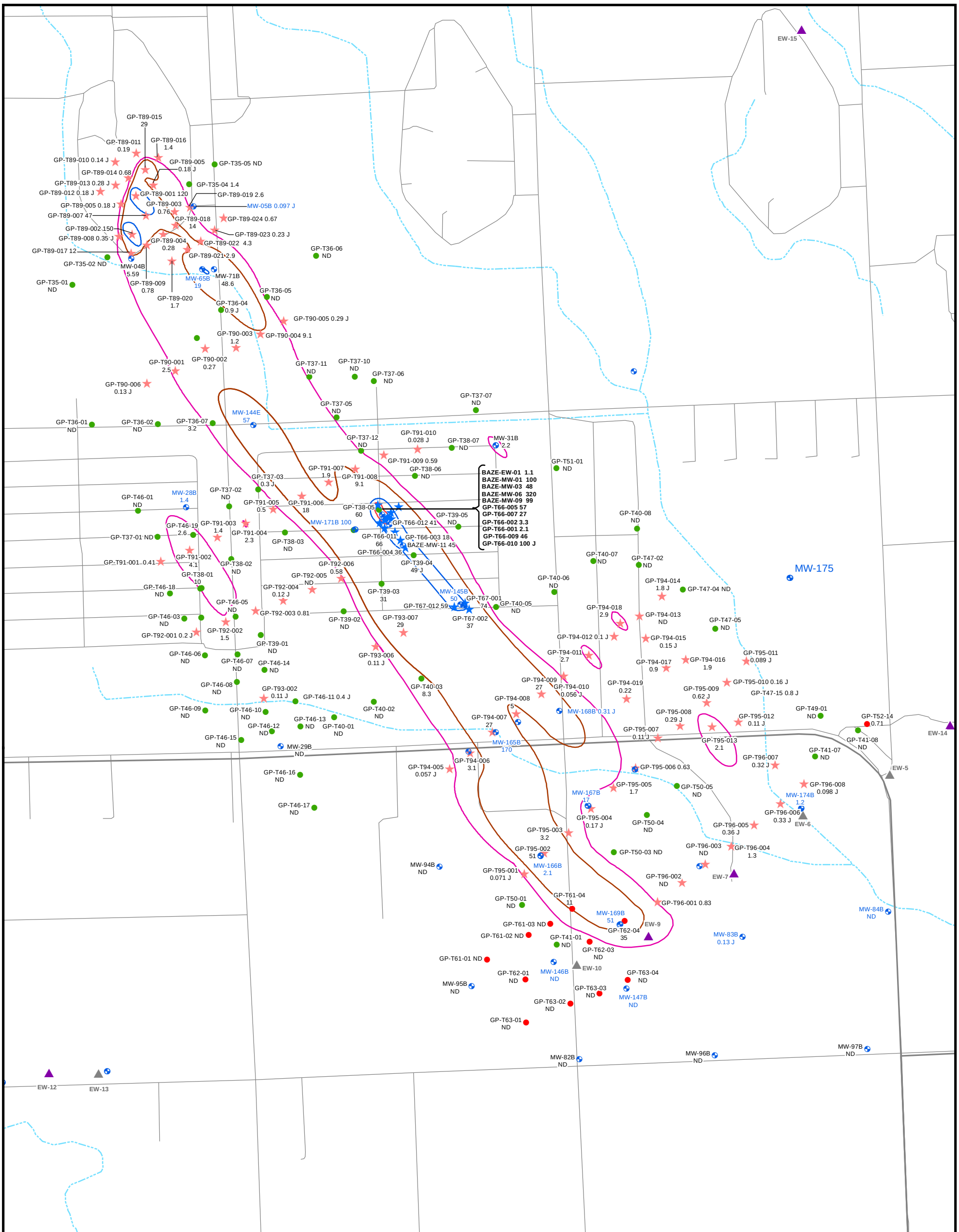

These contours are an interpolation based on the maximum concentration at each location in the aquifer zone. The contours were developed using Surfer (kriging with anisotropy) and adjusted using professional judgement using data from direct push points collected 2006-2012 and the most recent sample from each monitoring well cluster. Where nearby data points conflicted, preference was given to 2010-2012 direct push or monitoring well sample data.

Note:

Concentrations reported in micrograms per liter (ug/L)
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
J - Estimated
ND - Not Detected

0 1,500
SCALE IN FEET

N

Legend

- 2007 Direct Push Sample
- 2008 Direct Push Sample
- 2010 Direct Push Sample
- 2011 Direct Push Sample
- Monitoring Well
- 2012 Shallow RDX Extent (2 ug/L)
- 10 ug/L
- 50 ug/L
- 100 ug/L
- Extraction Well - Active
- Extraction Well - Inactive

Data in Blue indicates 2012 Data

US Army Corps of Engineers
Kansas City District

Figure 3-7

Load Line 2 Plume
RDX Contaminant Distribution
Shallow Zone

2012 GWM Update

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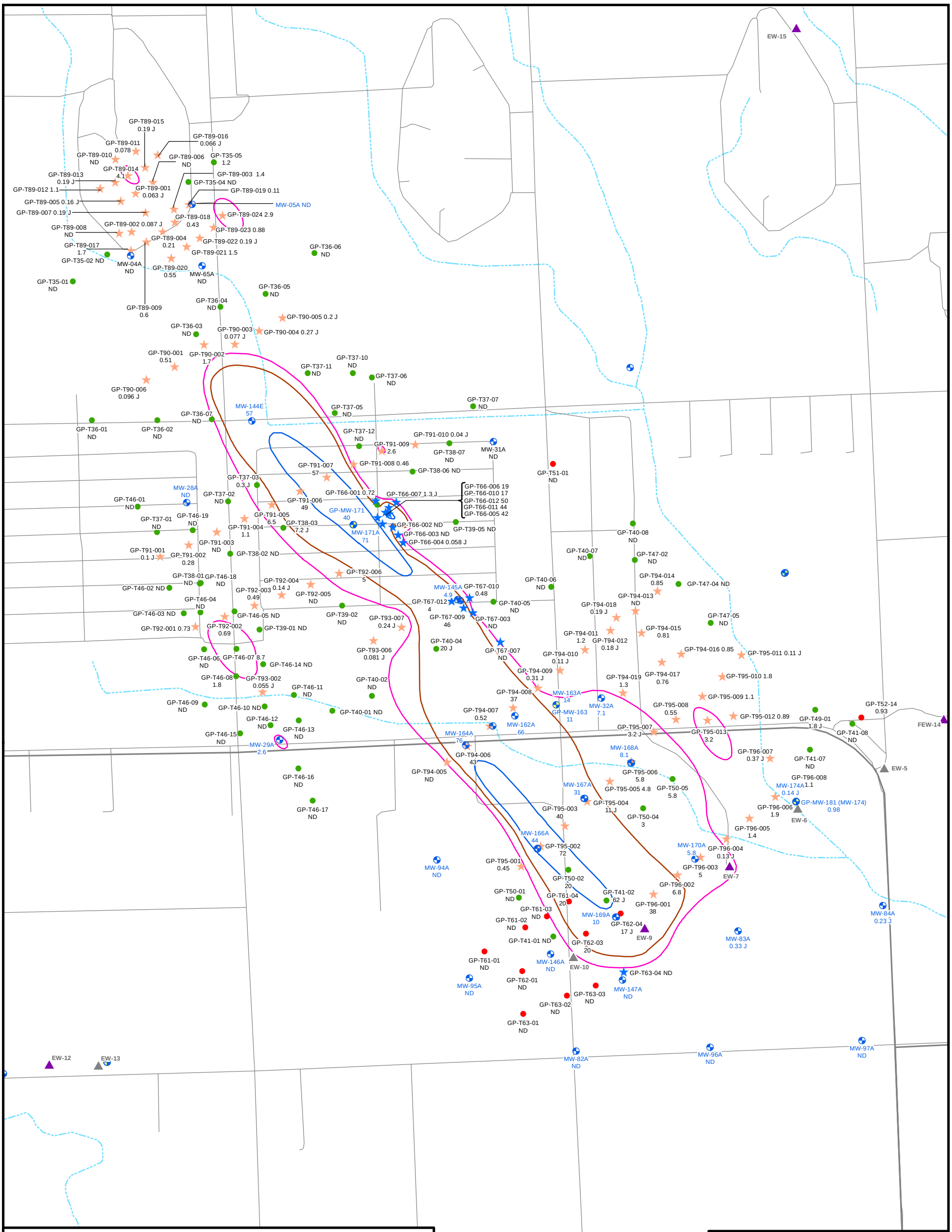

These contours are an interpolation based on the maximum concentration at each location in the aquifer zone. The contours were developed using Surfer (kriging with anisotropy) and adjusted using professional judgement using data from direct push points collected 2006-2012 and the most recent sample from each monitoring well cluster. Where nearby data points conflicted, preference was given to 2010-2012 direct push or monitoring well sample data.

Note:

Concentrations reported in micrograms per liter (ug/L)
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
J - Estimated
ND - Not Detected

0 1,500
SCALE IN FEET

N

Legend

- 2007 Direct Push Sample
- 2008 Direct Push Sample
- 2010 Direct Push Sample
- 2011 Direct Push Sample
- Monitoring Well
- 2012 Intermediate RDX Extent (2 ug/L)
- 10 ug/L
- 50 ug/L
- Extraction Well - Active
- Extraction Well - Inactive

Data in Blue indicates 2012 Data

US Army Corps of Engineers
Kansas City District

Figure 3-8

Load Line 2 Plume
RDX Contaminant Distribution
Intermediate Zone

2012 GWM Update

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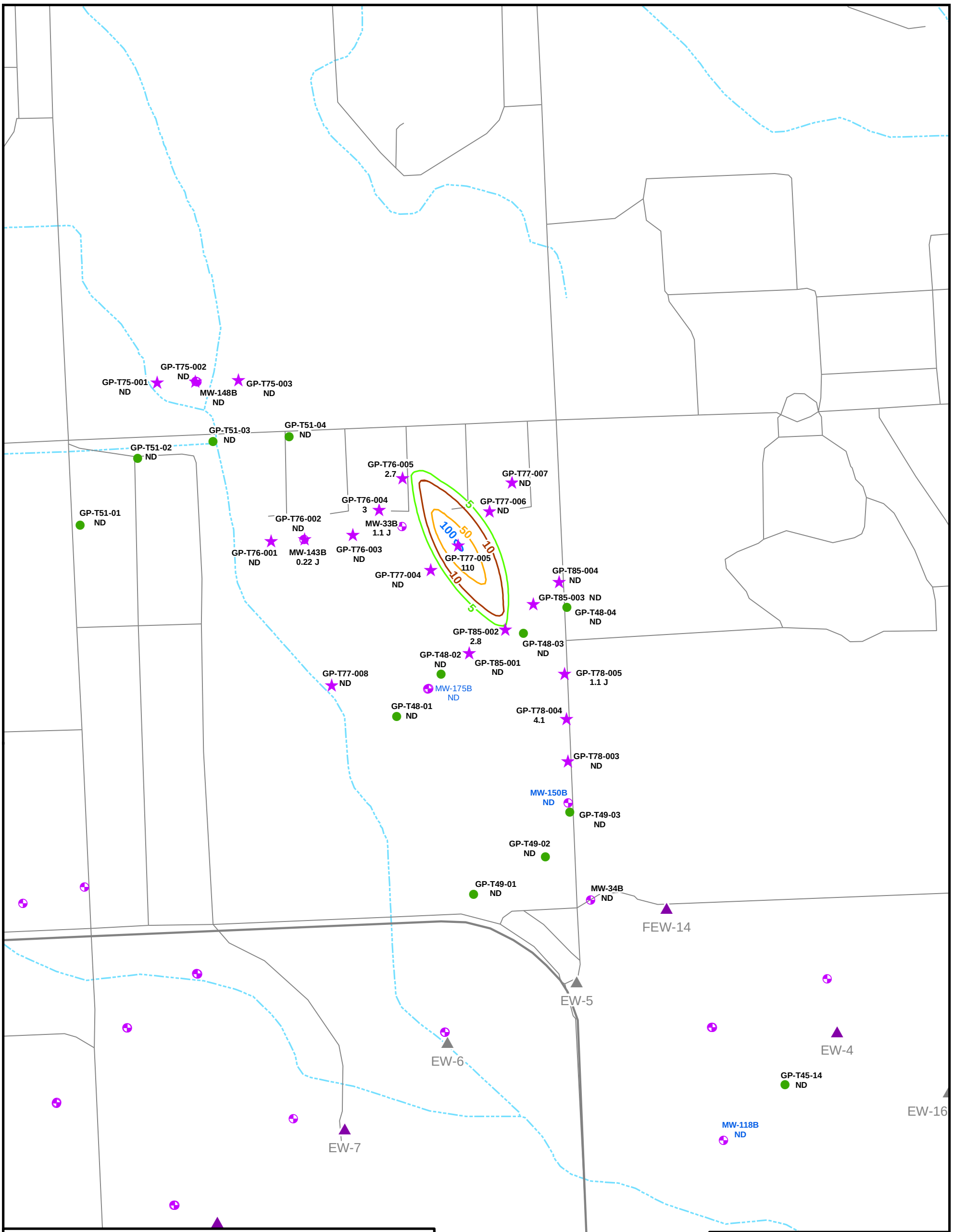

These contours are an interpolation based on the maximum concentration at each location in the aquifer zone. The contours were developed using Surfer (kriging with anisotropy) and adjusted using professional judgement using data from direct push points collected 2006-2010 and the most recent sample from each monitoring well cluster. Where nearby data points conflicted, preference was given to 2010 direct push or monitoring well sample data.

Note:

Concentrations reported in micrograms per liter (ug/L)
J - Estimated
ND - Not Detected
TCE - trichloroethene

0 1,000
SCALE IN FEET

N

Legend

- 2007 Direct Push Sampling Location
- 2010 Direct Push Sampling Location
- Monitoring Well
- Extraction Well - Active
- Extraction Well - Inactive
- 2010 Shallow TCE Extent (5 ug/L)
- 10 ug/L
- 50 ug/L
- 100 ug/L

Data in Blue indicates 2012 Data

US Army Corps of Engineers
Kansas City District

Figure 3-9

Load Line 3 Plume
TCE Contaminant Distribution
Shallow Zone

2012 GWM Update

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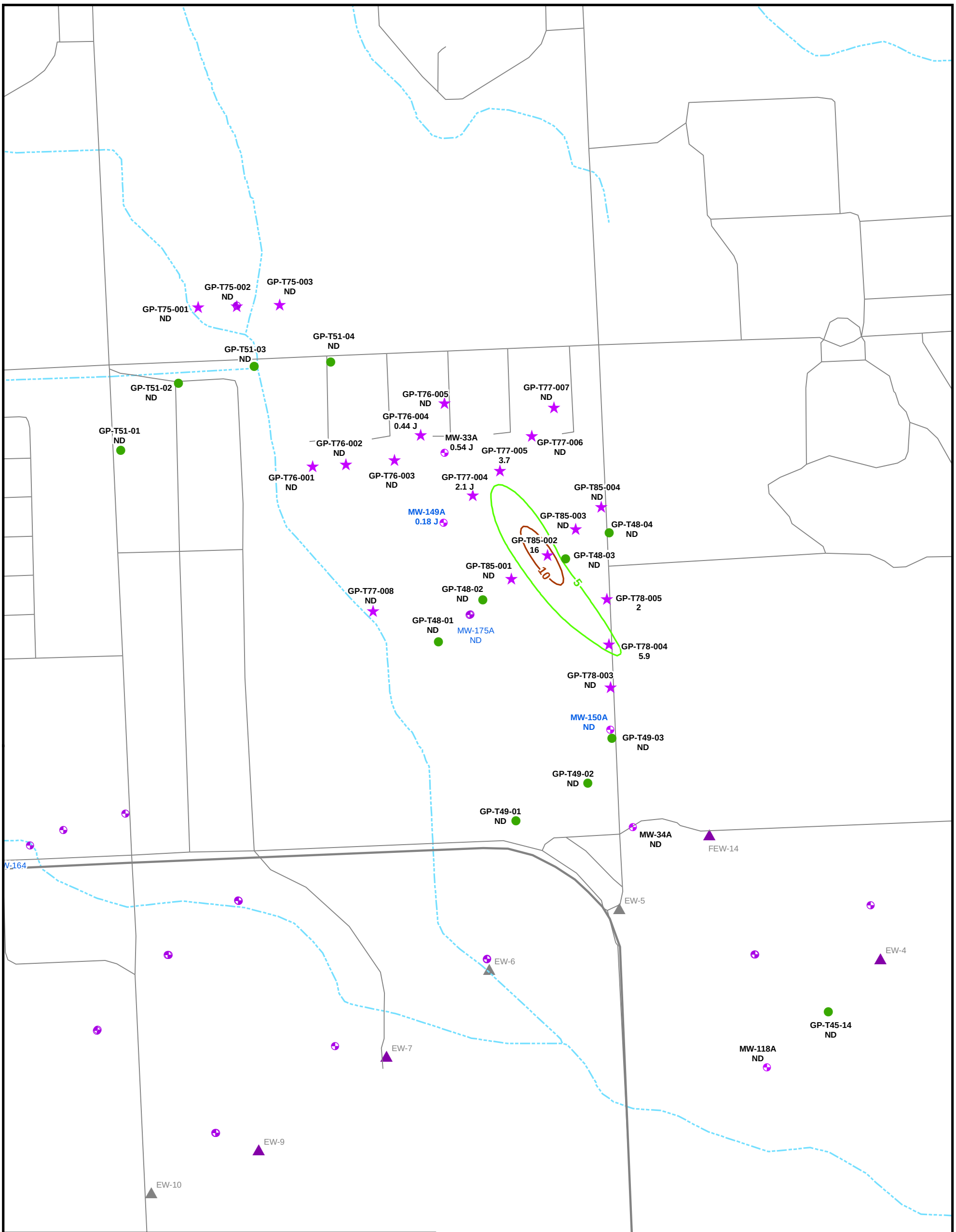

These contours are an interpolation based on the maximum concentration at each location in the aquifer zone. The contours were developed using Surfer (kriging with anisotropy) and adjusted using professional judgement using data from direct push points collected 2006-2010 and the most recent sample from each monitoring well cluster. Where nearby data points conflicted, preference was given to 2010 direct push or monitoring well sample data.

Note:
Concentrations reported in micrograms per liter (ug/L)
J - Estimated
ND - Not Detected
TCE - trichloroethene

0 1,000
SCALE IN FEET

N

Legend

- 2007 Direct Push Sampling Location
- 2010 Direct Push Sampling Location
- Monitoring Well
- Extraction Well - Active
- Extraction Well - Inactive
- 2010 Intermediate TCE Extent (5 ug/L)
- 10 ug/L
- Treatment Plant

Data in Blue indicates 2012 Data

US Army Corps of Engineers ®
Kansas City District

Figure 3-10

Load Line 3 Plume
TCE Contaminant Distribution
Intermediate Zone

2012 GWM Update

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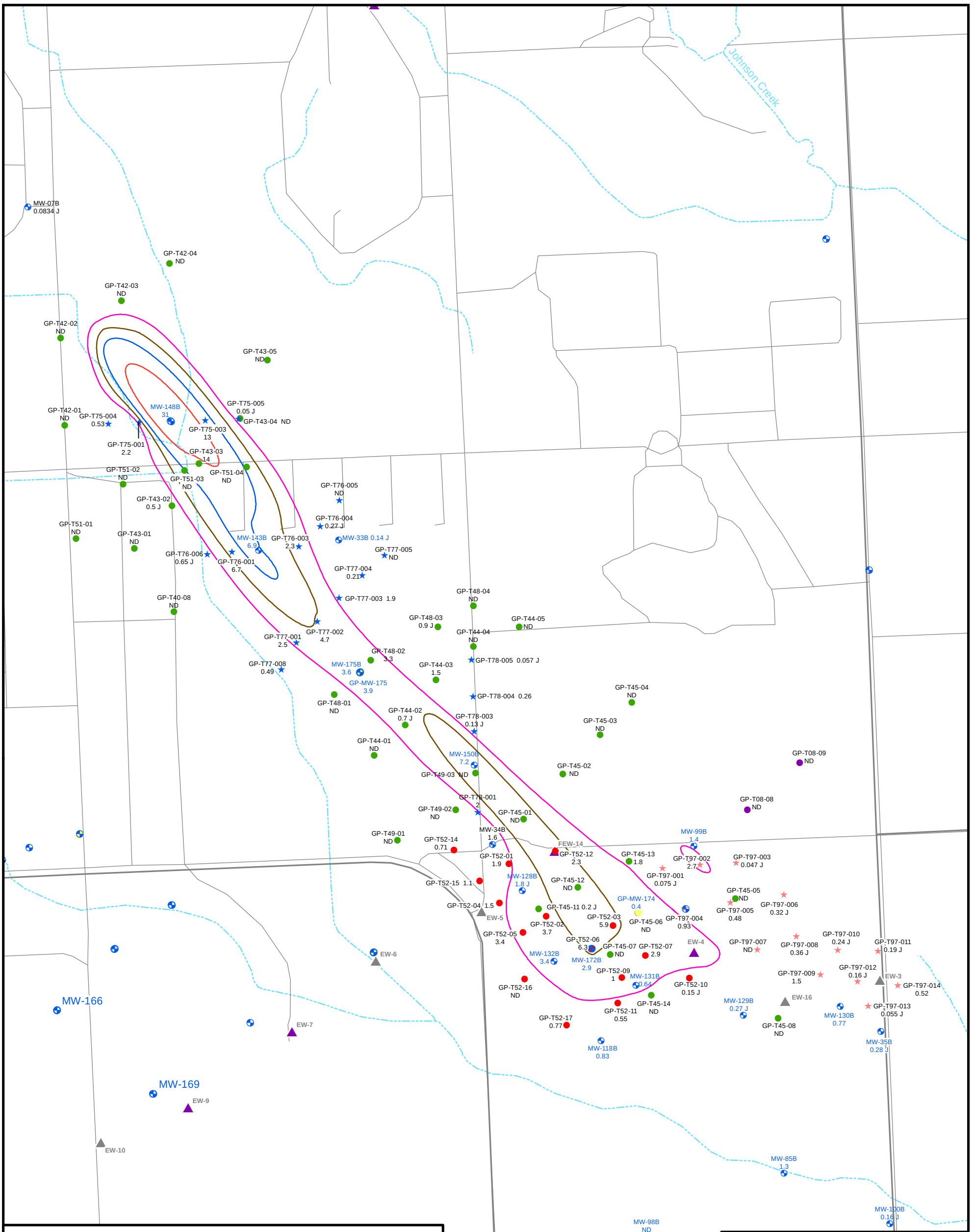

These contours are an interpolation based on the maximum concentration at each location in the aquifer zone. The contours were developed using Surfer (kriging with anisotropy) and adjusted using professional judgement using data from direct push points collected 2006-2011 and the most recent sample from each monitoring well cluster. Where nearby data points conflicted, preference was given to 2010 and 2011 direct push or monitoring well sample data.

Note:

Concentrations reported in micrograms per liter (ug/L)
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
J - Estimated
ND - Not Detected

0 1,250
SCALE IN FEET

N

Legend

- 2006 Direct Push Sample
- 2007 Direct Push Sample
- 2008 Direct Push Sample
- 2009 Direct Push Sample
- 2010 Direct Push Sample
- 2011 Direct Push Sample
- Monitoring Well
- 2012 Shallow RDX Extent (2 ug/L)
- 5 ug/L
- 10 ug/L
- 20 ug/L
- Extraction Well - Active
- Extraction Well - Inactive

Data in Blue indicates 2012 Data

US Army Corps of Engineers
Kansas City District

Figure 3-11

Load Line 3 Plume
RDX Contaminant Distribution
Shallow Zone

2012 GWM Update

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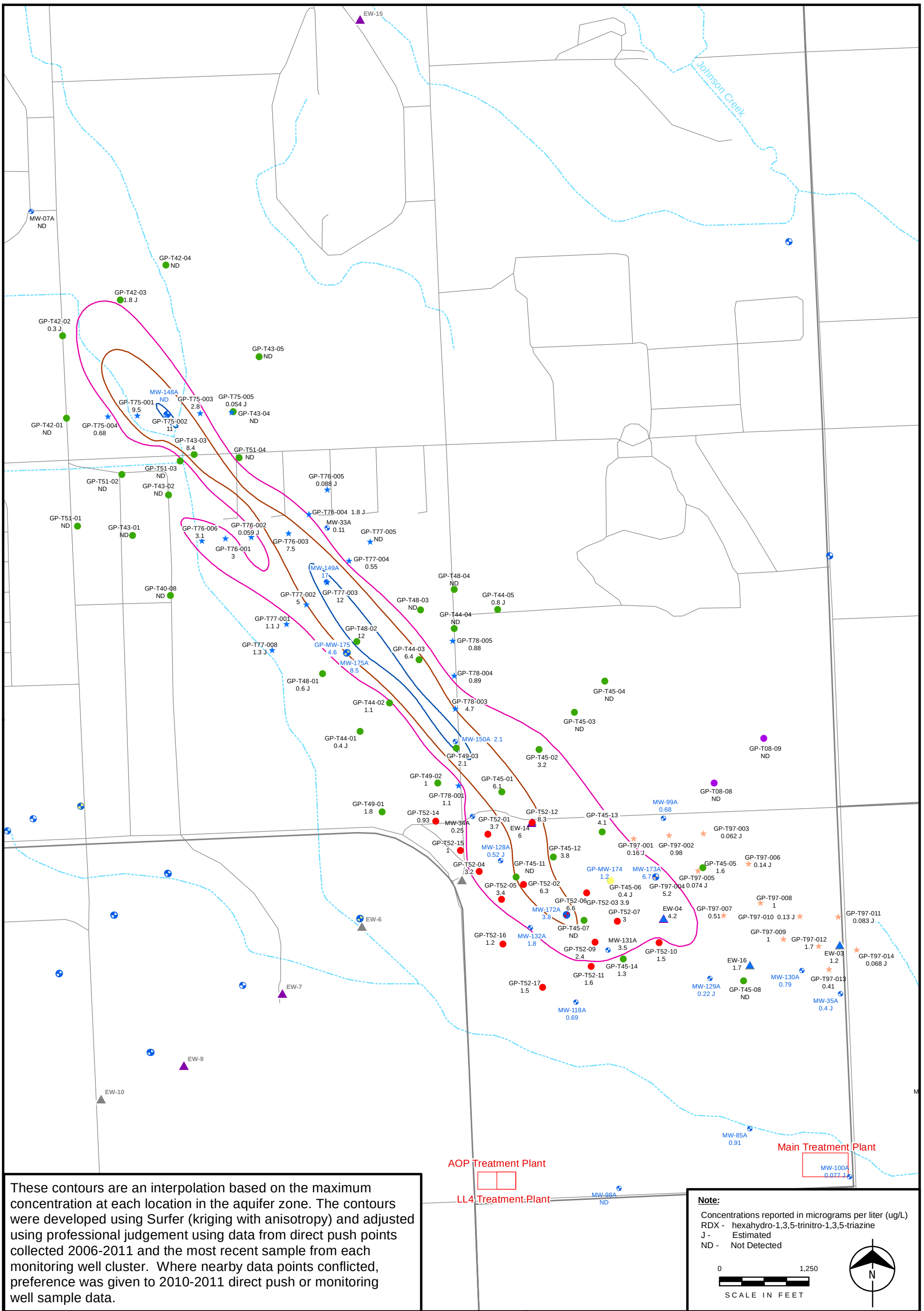

These contours are an interpolation based on the maximum concentration at each location in the aquifer zone. The contours were developed using Surfer (kriging with anisotropy) and adjusted using professional judgement using data from direct push points collected 2006-2011 and the most recent sample from each monitoring well cluster. Where nearby data points conflicted, preference was given to 2010-2011 direct push or monitoring well sample data.

Note:

Concentrations reported in micrograms per liter (ug/L)
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
J - Estimated
ND - Not Detected

0 1,250
SCALE IN FEET

N

Legend

- 2006 Direct Push Sample
- 2007 Direct Push Sample
- 2008 Direct Push Sample
- 2009 Direct Push Sample
- 2010 Direct Push Sample
- 2011 Direct Push Sample
- Monitoring Well
- RDX Concentration from Extraction Well
- 2012 Intermediate RDX Extent (2 ug/L)
- 5 ug/L
- 10 ug/L
- Extraction Well - Active
- Extraction Well - Inactive
- Treatment Plant

Data in Blue indicates 2012 Data

US Army Corps of Engineers ®
Kansas City District

Figure 3-12

Load Line 3 Plume
RDX Contaminant Distribution
Intermediate Zone

2012 GWM Update

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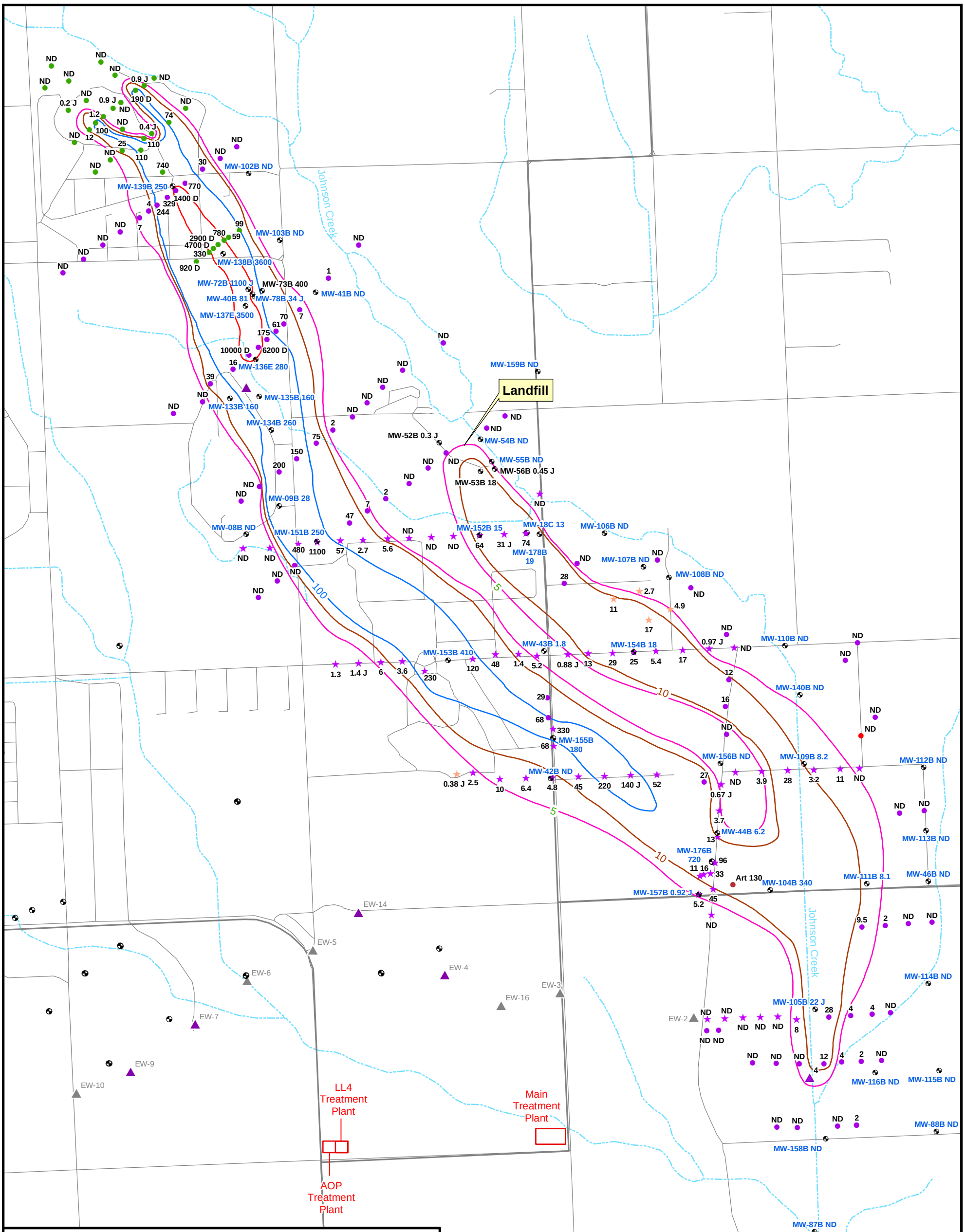

These contours are an interpolation based on the maximum concentration at each location in the aquifer zone. The contours were developed using Surfer (kriging with anisotropy) and adjusted using professional judgement using data from direct push points collected 2006-2011 and the most recent sample from each monitoring well cluster. Where nearby data points conflicted, preference was given to 2010-2011 direct push or monitoring well sample data.

Note:

Concentrations reported in micrograms per liter (ug/L)
AOP - Advanced Oxidation Process
J - Estimated
LL - Load Line
ND - Not Detected
TCE - trichloroethene

0 2,000
SCALE IN FEET

N

Legend

- 2006 Direct Push Sample
- 2007 Direct Push Sample
- 2008 Direct Push Sample
- 2010 Direct Push Sample
- 2011 Direct Push Sample
- Artesian Well
- Extraction Well
- Monitoring Well
- 2012 Shallow TCE Extent (5 ug/L)
- 10 ug/L
- 100 ug/L
- 1000 ug/L
- Extraction Well - Active
- Extraction Well - Inactive
- Treatment Plant

Data in Blue indicates 2012 Data

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Kansas City District

Figure 3-13

Load Line 4/Atlas Missile Plumes
TCE Contaminant Distribution
Shallow Zone

2012 GWM Update

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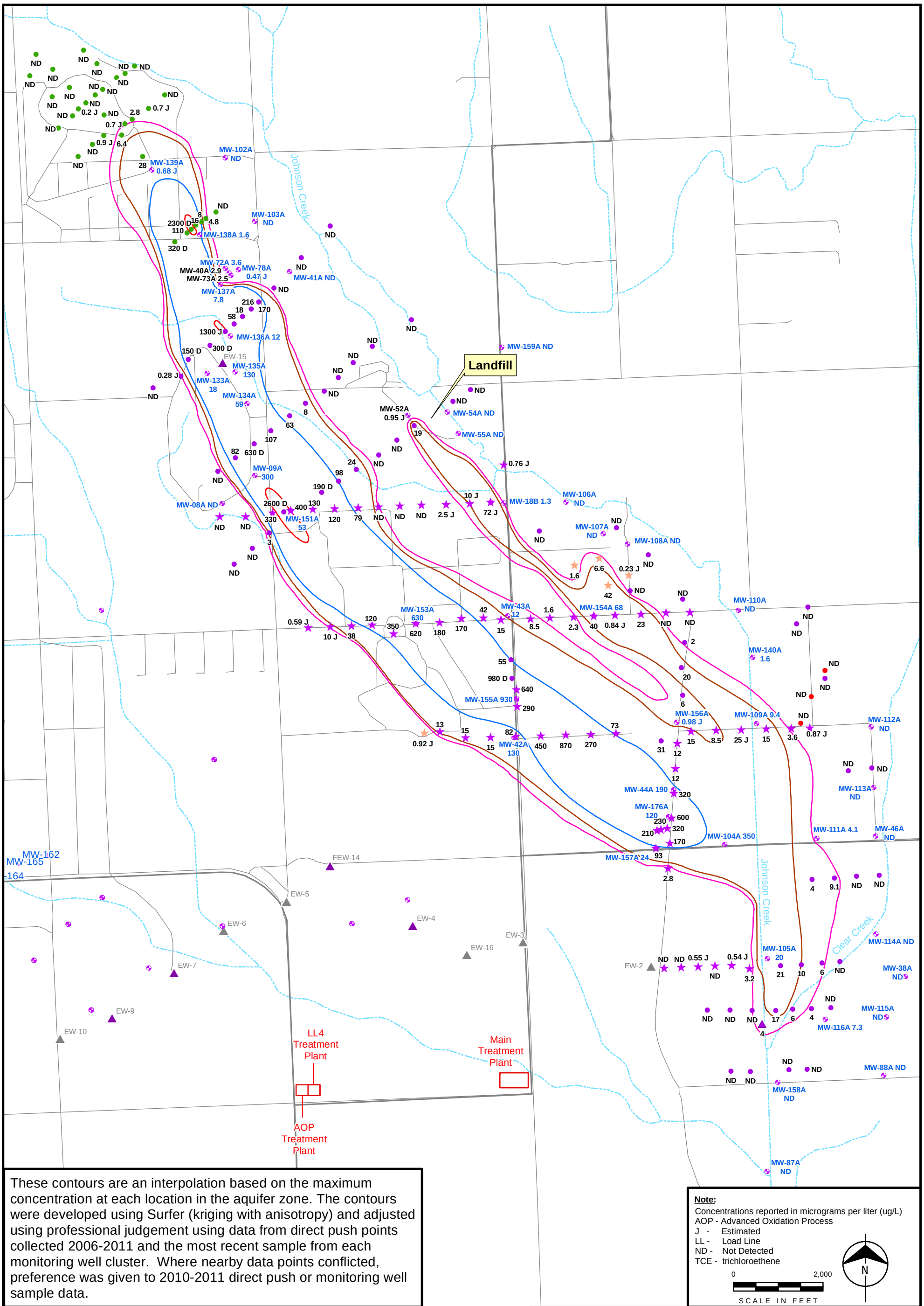

These contours are an interpolation based on the maximum concentration at each location in the aquifer zone. The contours were developed using Surfer (kriging with anisotropy) and adjusted using professional judgement using data from direct push points collected 2006-2011 and the most recent sample from each monitoring well cluster. Where nearby data points conflicted, preference was given to 2010-2011 direct push or monitoring well sample data.

Note:
Concentrations reported in micrograms per liter (ug/L)
AOP - Advanced Oxidation Process
J - Estimated
LL - Load Line
ND - Not Detected
TCE - trichloroethene

0 2,000
SCALE IN FEET

N

Legend

- 2006 Direct Push Sample
- 2007 Direct Push Sample
- 2008 Direct Push Sample
- 2010 Direct Push Sample
- 2011 Direct Push Sample
- TCE Concentration from Extraction Well
- Monitoring Well
- 2012 Intermediate TCE Extent (5 ug/L)
- 10 ug/L
- 100 ug/L
- 1000 ug/L
- Extraction Well - Active
- Extraction Well - Inactive
- Treatment Plant

Data in Blue indicates 2012 Data

US Army Corps of Engineers
Kansas City District

Figure 3-14

Load Line 4 /Atlas Missile Plumes
TCE Contaminant Distribution
Intermediate Zone

2012 GWM Update

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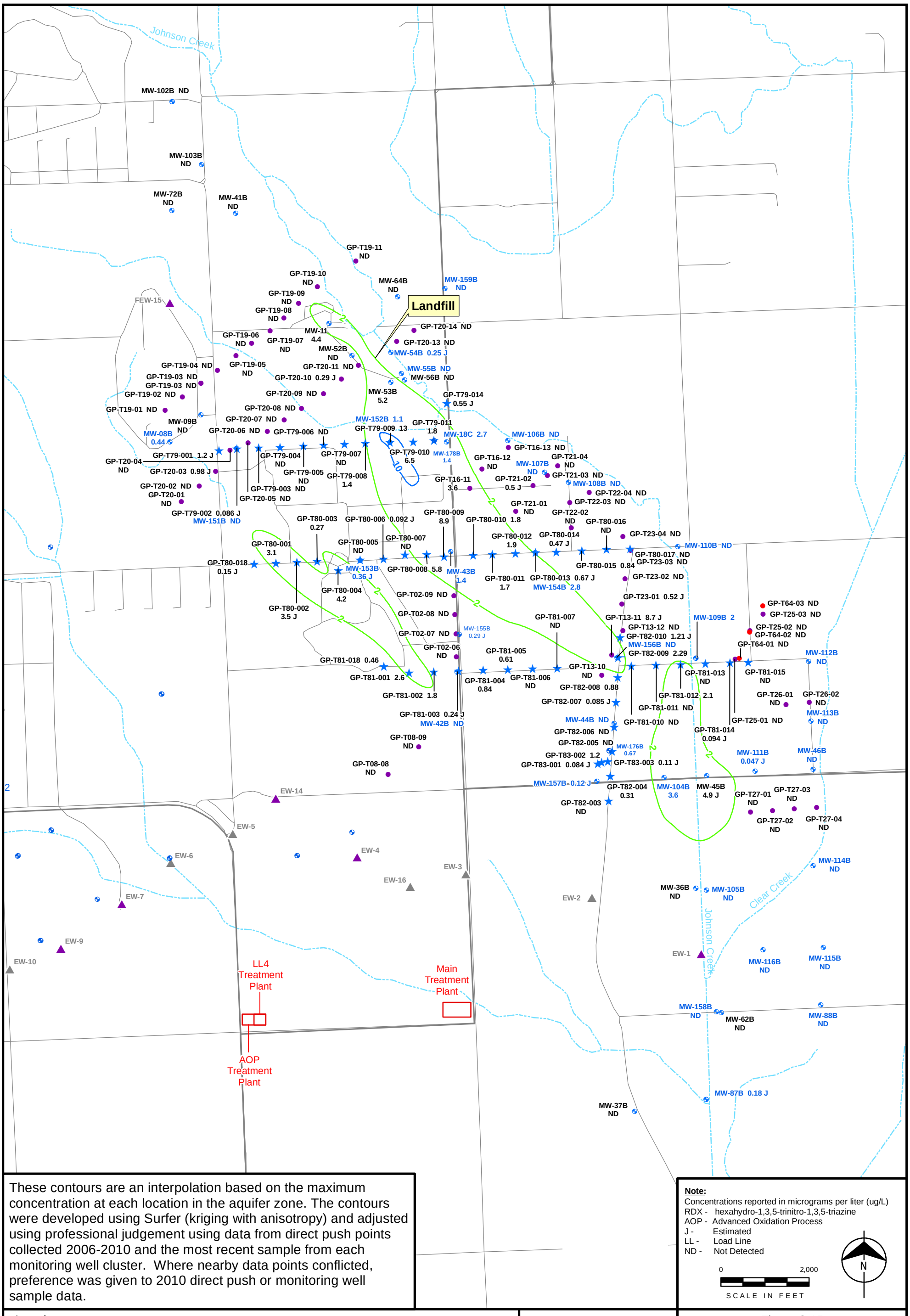

These contours are an interpolation based on the maximum concentration at each location in the aquifer zone. The contours were developed using Surfer (kriging with anisotropy) and adjusted using professional judgement using data from direct push points collected 2006-2010 and the most recent sample from each monitoring well cluster. Where nearby data points conflicted, preference was given to 2010 direct push or monitoring well sample data.

Note:
Concentrations reported in micrograms per liter (ug/L)
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
AOP - Advanced Oxidation Process
J - Estimated
LL - Load Line
ND - Not Detected

0 2,000
SCALE IN FEET

N

Legend

- 2006 Direct Push Sampling Location
- 2008 Direct Push Sampling Location
- 2010 Direct Push Sampling Location
- Monitoring Well
- Extraction Well - Active
- Extraction Well - Inactive
- 2010 Shallow RDX Extent (2 ug/L)
- 10
- Treatment Plant

Data in Blue indicates 2012 Data

Figure reproduced from 2010 Aquifer Characterization

US Army Corps of Engineers
Kansas City District

Figure 3-15

Load Line 4/Atlas Missile Plumes
RDX Contaminant Distribution
Shallow Zone

2012 GWM Update

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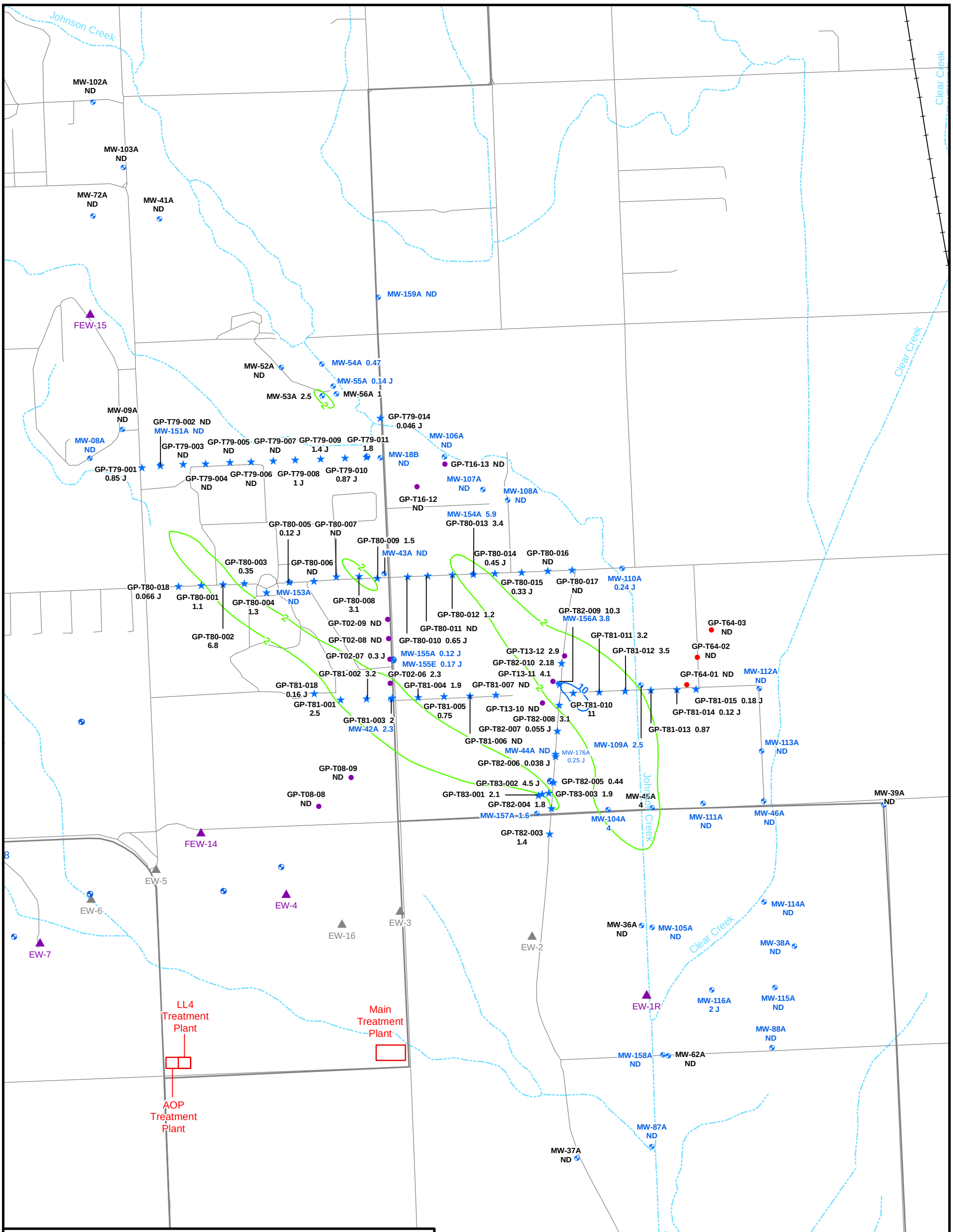

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Note:
Concentrations reported in micrograms per liter (ug/L)
RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine
AOP - Advanced Oxidation Process
LL - Load Line
J - Estimated
ND - Not Detected

0 2,000
SCALE IN FEET

N

Legend

- 2006 Direct Push Sampling Location
- 2008 Direct Push Sampling Location
- 2010 Direct Push Sampling Location
- Monitoring Well
- 2010 Intemediate RDX Extent (2 ug/L)
- 10
- Extraction Well - Active
- Extraction Well - Inactive
- Treatment Plant

Data in Blue indicates 2012 Data

US Army Corps of Engineers
Kansas City District

Figure 3-16

Load Line 4/Atlas Missile Plumes
RDX Contaminant Distribution
Intermediate Zone

2012 GWM Update

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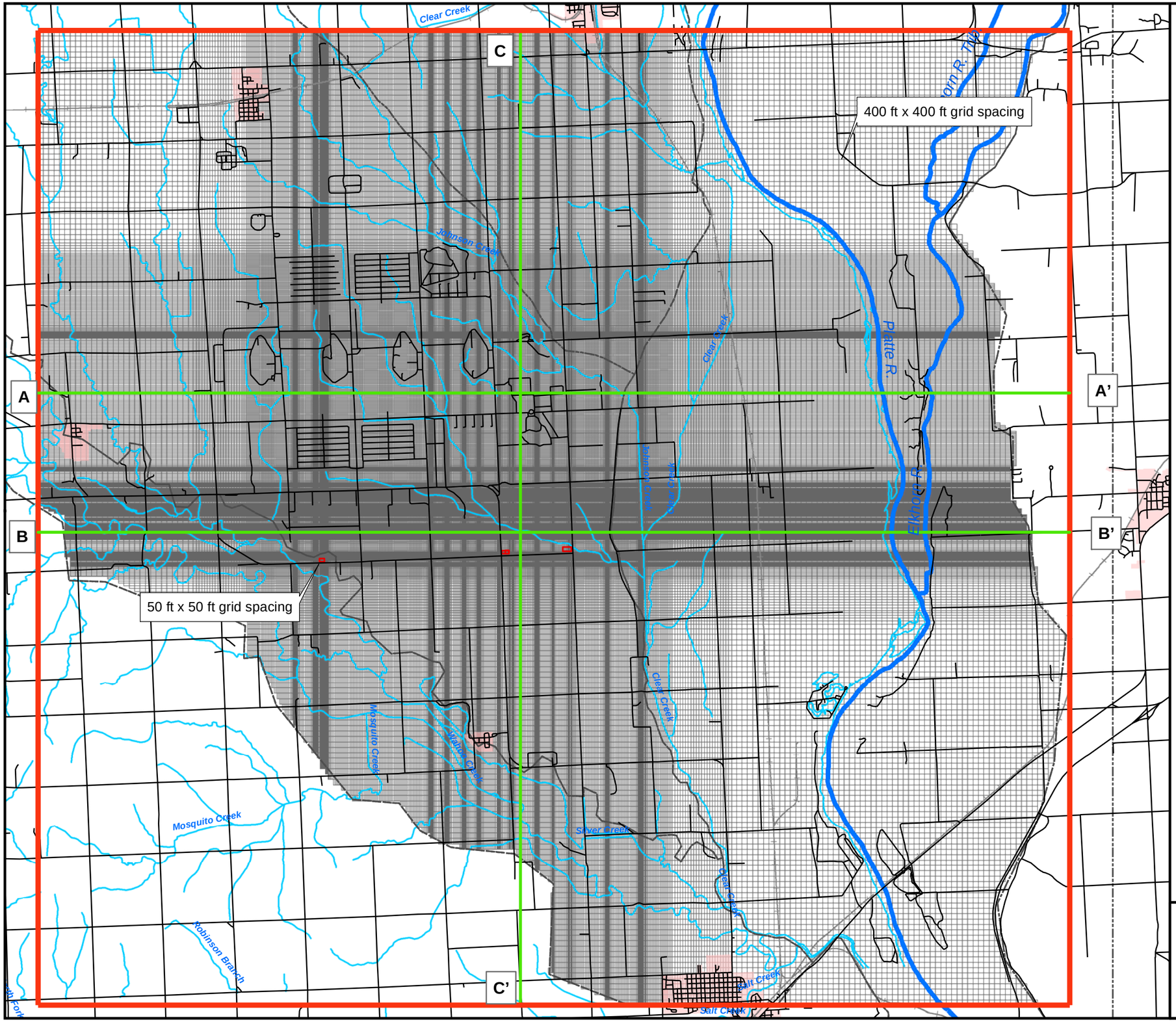

Legend

- Model Boundary
- Model Cross Section Location
- Treatment Plant
- Basin Boundaries
- Grid

Notes:

1. Model contains 442 rows, 521 columns and 3 layers. There are 631,038 active cells.

N

0 7,000 14,000

SCALE IN FEET

US Army Corps of Engineers ®
Kansas City District

Figure 4-1

Model Domain
2012 Groundwater Model Update
Former NOP

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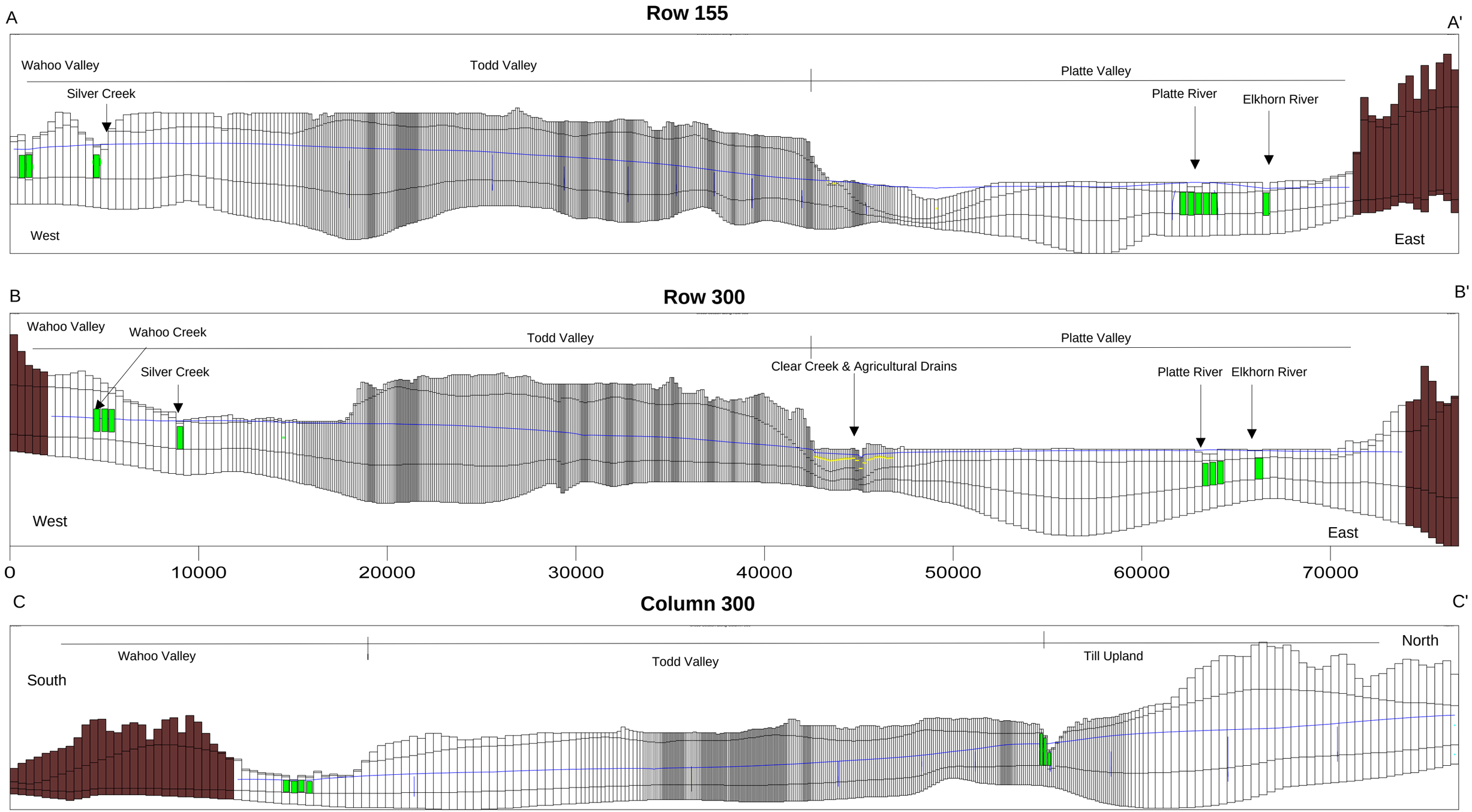

Notes

Water Table

River Cross-Section

No Flow Boundary

US Army Corps of Engineers
Kansas City District

Figure 4-2

Model Cross Sections
2012 Groundwater Model Update
Former NOP

Figure 4-2 Grid.srf

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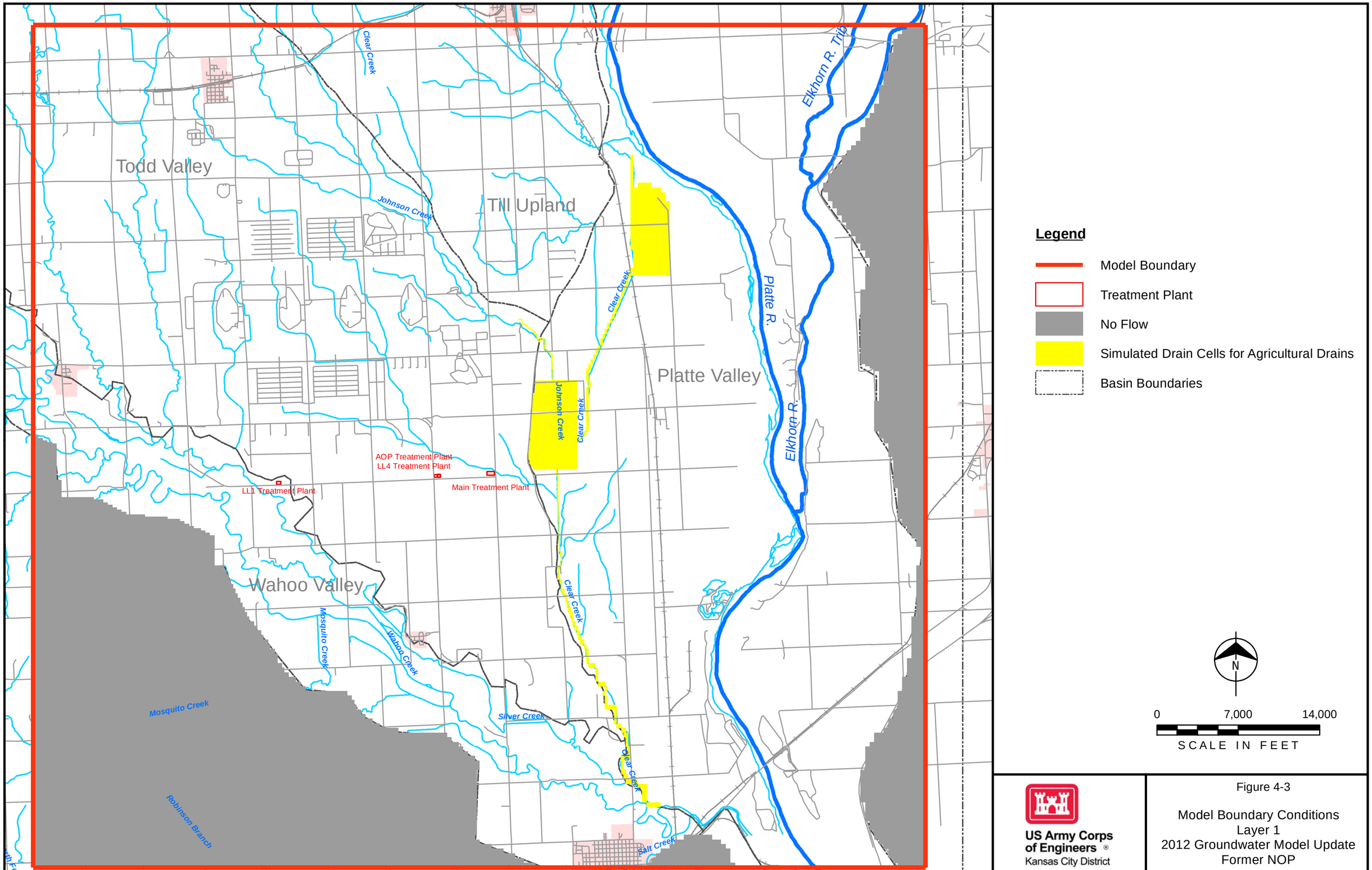

Figure 4-3

Model Boundary Conditions
Layer 1
2012 Groundwater Model Update
Former NOP

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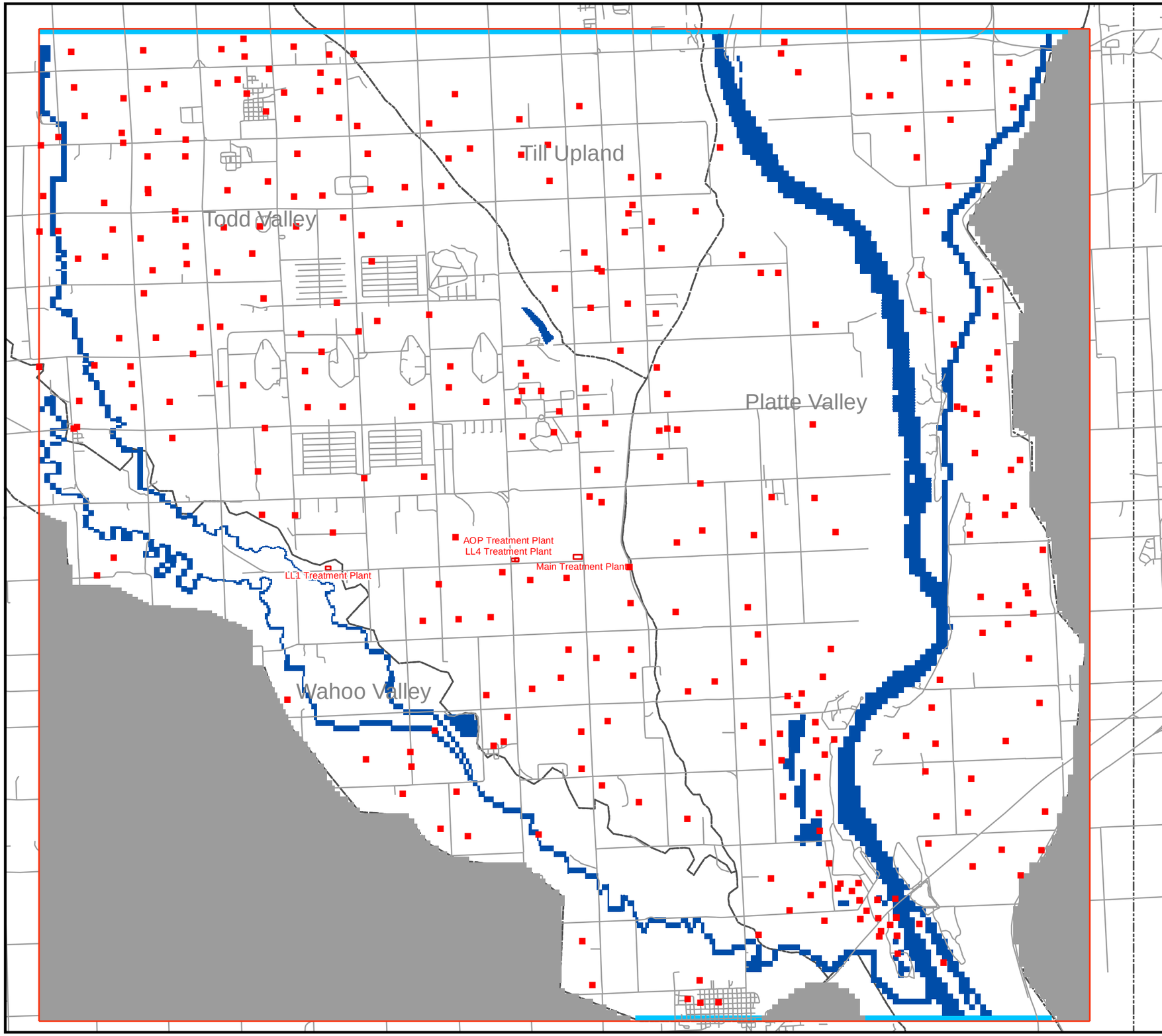

Legend

- Layer 2 Wells
- Model Boundary
- Treatment Plant
- River
- General Head Boundary
- No Flow
- Basin Boundaries

Notes:

1. Wells shown on this map include: irrigation wells, municipal water supply wells, and former NOP extraction wells.
2. Irrigation wells are screened in both Layer 2 and Layer 3.

N

0 7,000 14,000

SCALE IN FEET

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Kansas City District

Figure 4-4

Model Boundary Conditions
Layer 2
2012 Groundwater Model Update
Former NOP

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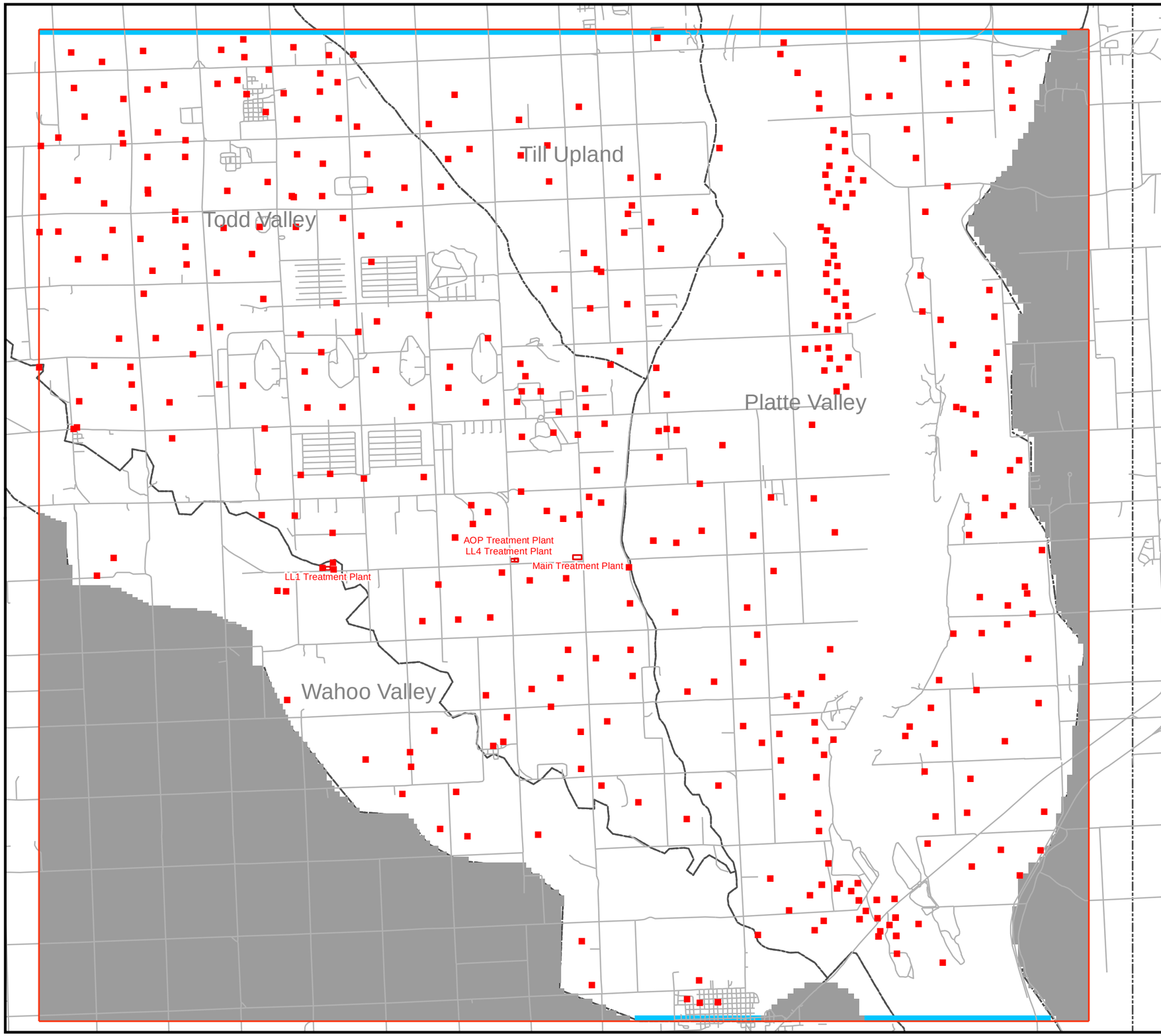

Legend

- Layer 3 Wells
- Model Boundary
- Treatment Plant
- General Head Boundary
- No Flow
- Basin Boundaries

Notes:

1. Wells shown on this map include: irrigation wells, municipal water supply wells, and former NOP extraction wells.
2. Irrigation wells are screened in both Layer 2 and Layer 3.

N

0 7,000 14,000

SCALE IN FEET

US Army Corps of Engineers ®
Kansas City District

Figure 4-5

Model Boundary Conditions
Layer 3
2012 Groundwater Model Update
Former NOP

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Figure 5-1
Simulated Transient Model Water Budget
August 26, 2010 - October 30, 2012
2012 Groundwater Model Update
Former NOP

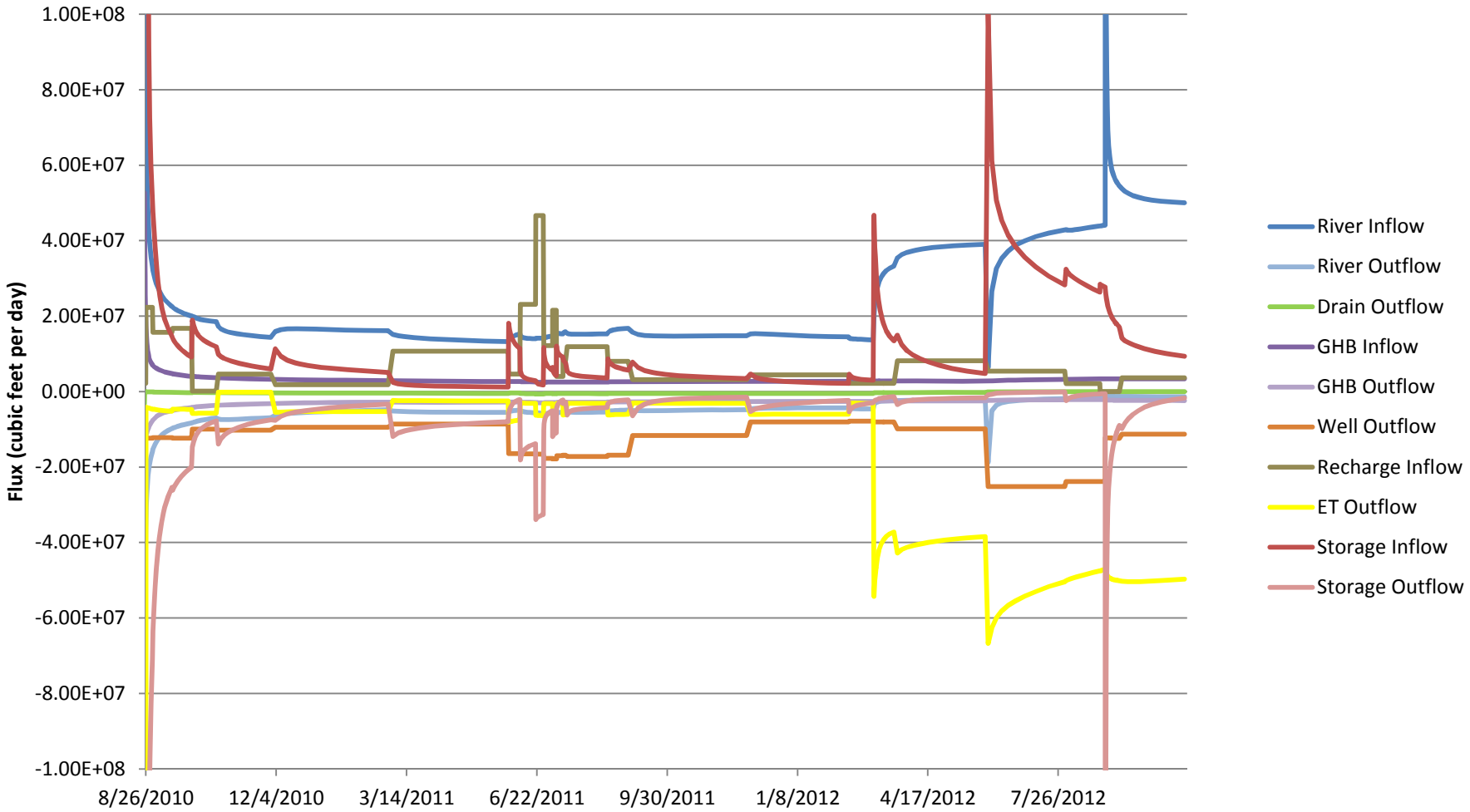

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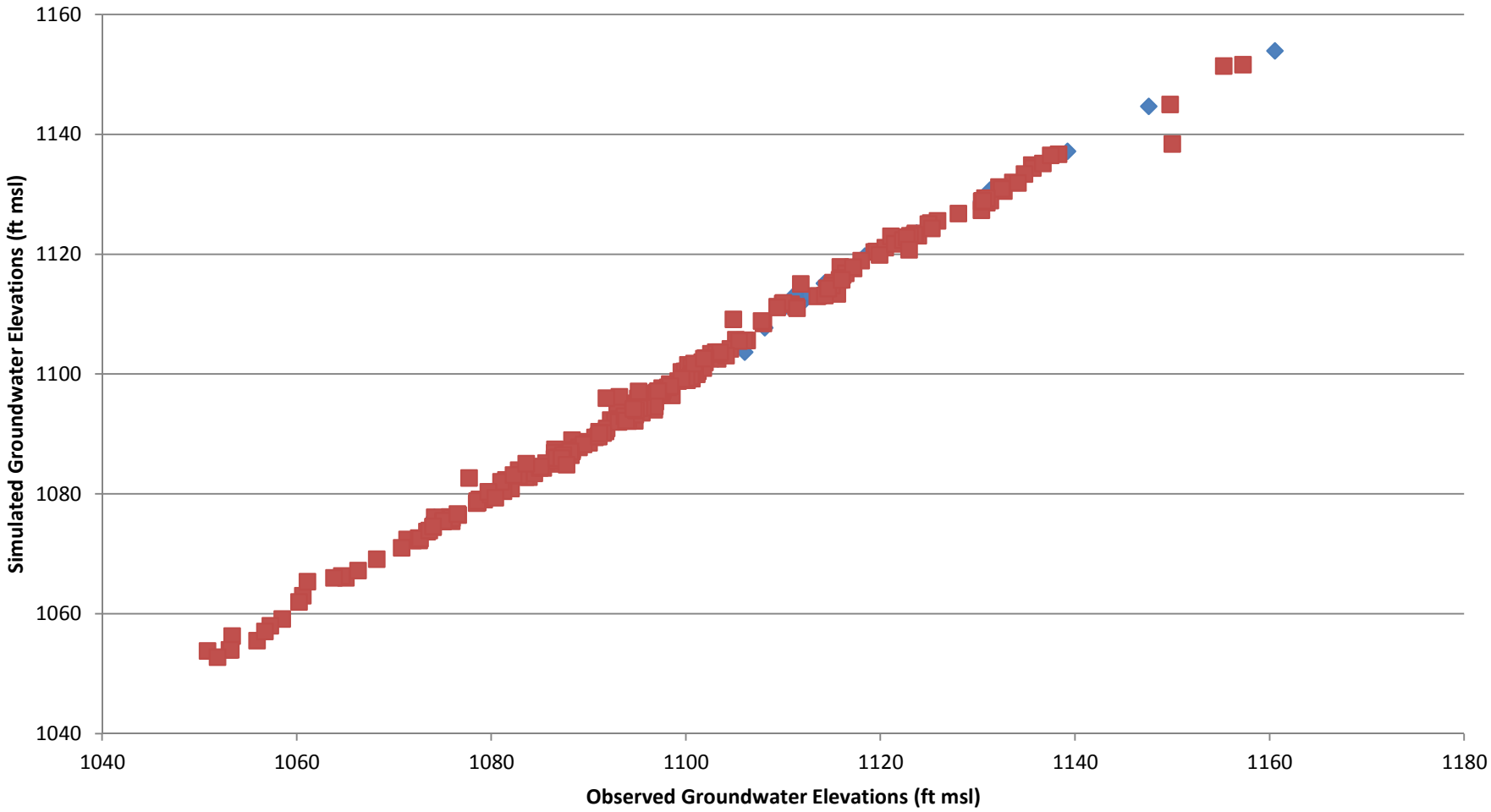
Figure 5-2
Simulated vs. Observed Hydraulic Heads
Transient Calibration Results (March 2011)
2012 Groundwater Model Update



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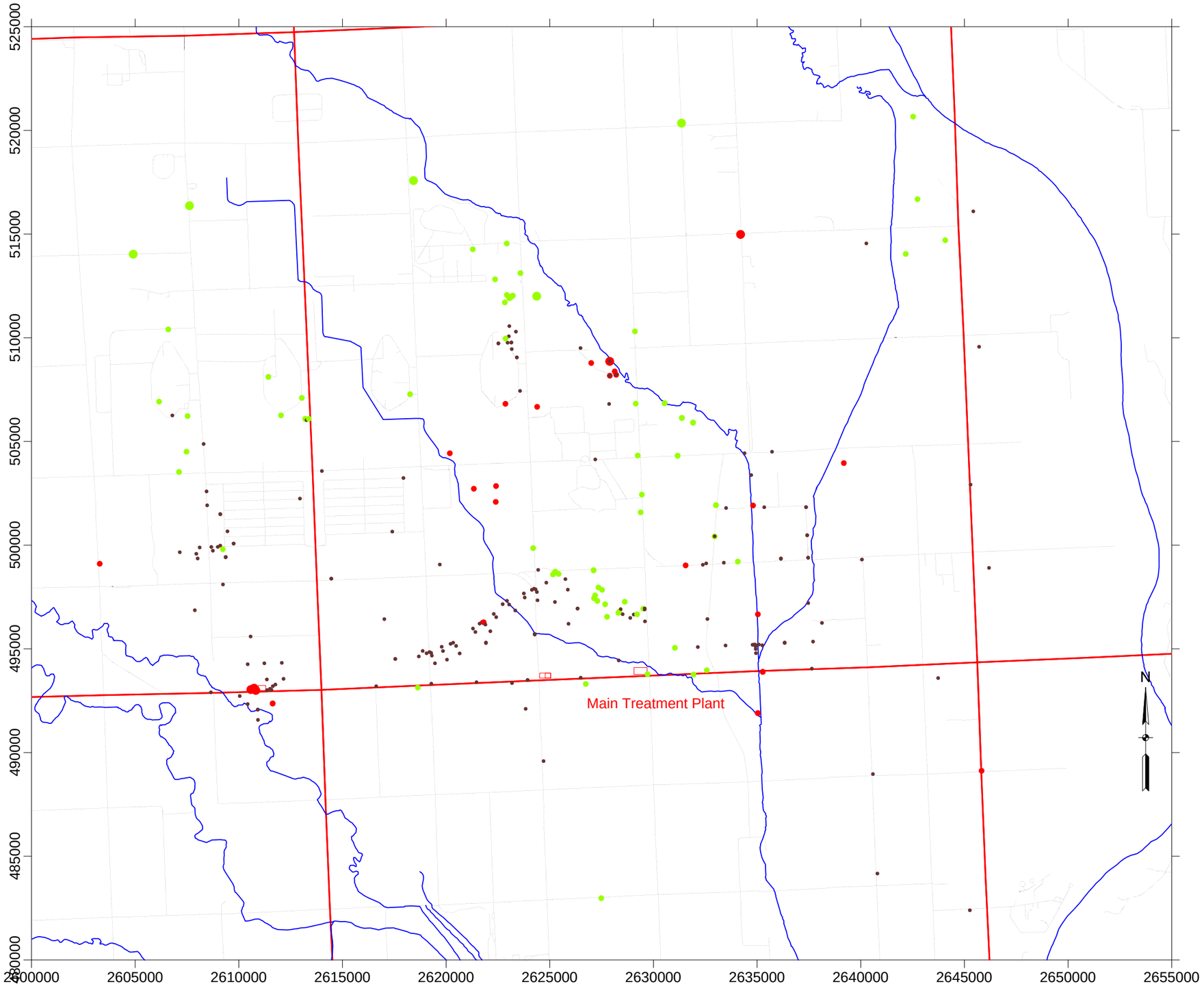

LEGEND

Negative Residual
(Simulated water level >1 foot higher than observed water level)

Positive Residual
(Simulated water level >1 foot lower than observed water level)

Residual less than1 foot

Treatment Plant

N

US Army Corps of Engineers ®
Kansas City District

Figure 5-3
Residual Distribution
March 2012

2012 GWM Update
Former NOP

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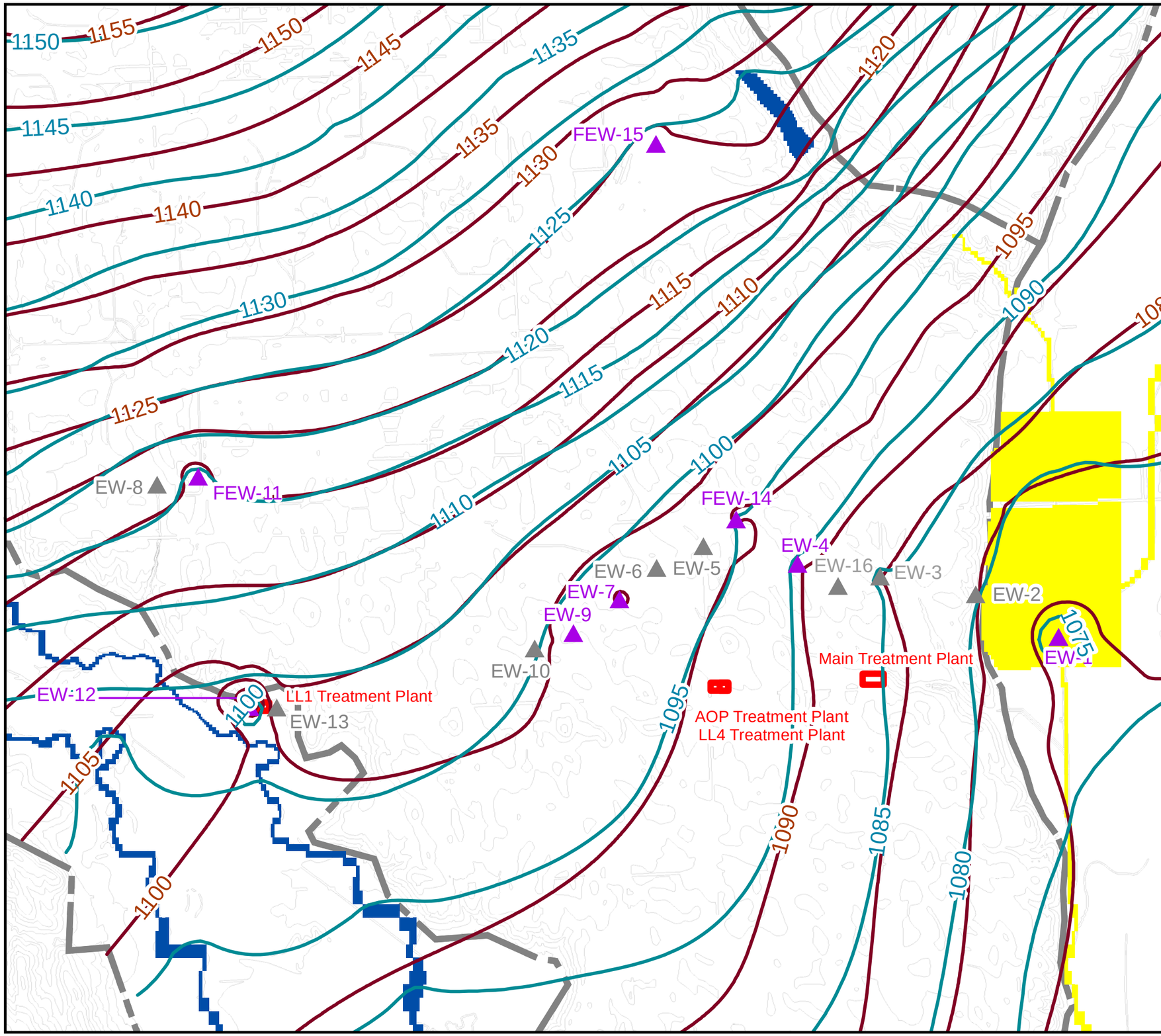

Legend

- USACE Extraction Well - Inactive
- USACE Extraction Well - Active
- Simulated March 2012 Contour
- March 2012 Groundwater Contour in Feet Above Mean Sea Level (Contour Interval 5 Feet)
- Treatment Plant
- Simulated Drain Cells for Agricultural Drains
- River Boundary Conditions
- Basin Boundaries

Notes:

1. March 2012 data collected 3/29/2012
2. EW-3, EW-6 and EW-16 which are shown as inactive were turned off January 2013.

USACE - United States Army Corps of Engineers

N

0 3,000 6,000

SCALE IN FEET

US Army Corps of Engineers ®
Kansas City District

Figure 5-4

Simulated versus Observed Potentiometric Surface Intermediate Zone - March 2012
2012 Groundwater Model Update
Former NOP

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Figure 5-5a
Observed Hydrographs at USACE Monitoring Wells
Elevations 1135-1140 feet above mean sea level

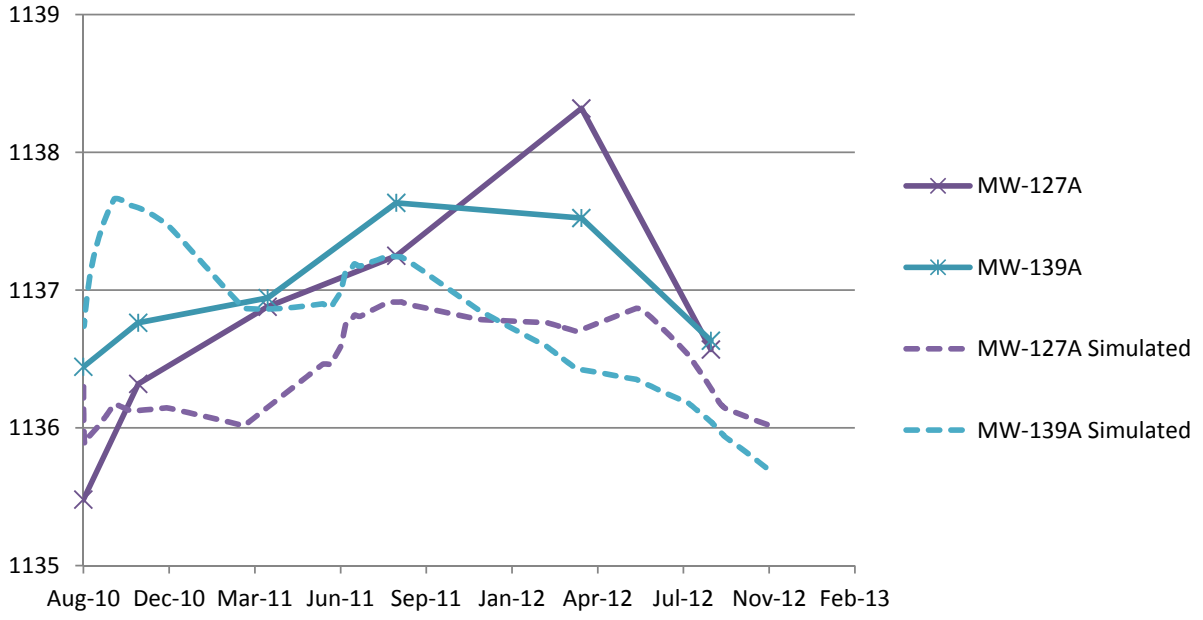


Figure 5-5b
Observed Hydrographs at USACE Monitoring Wells
Elevations 1130-1136 feet above mean sea level

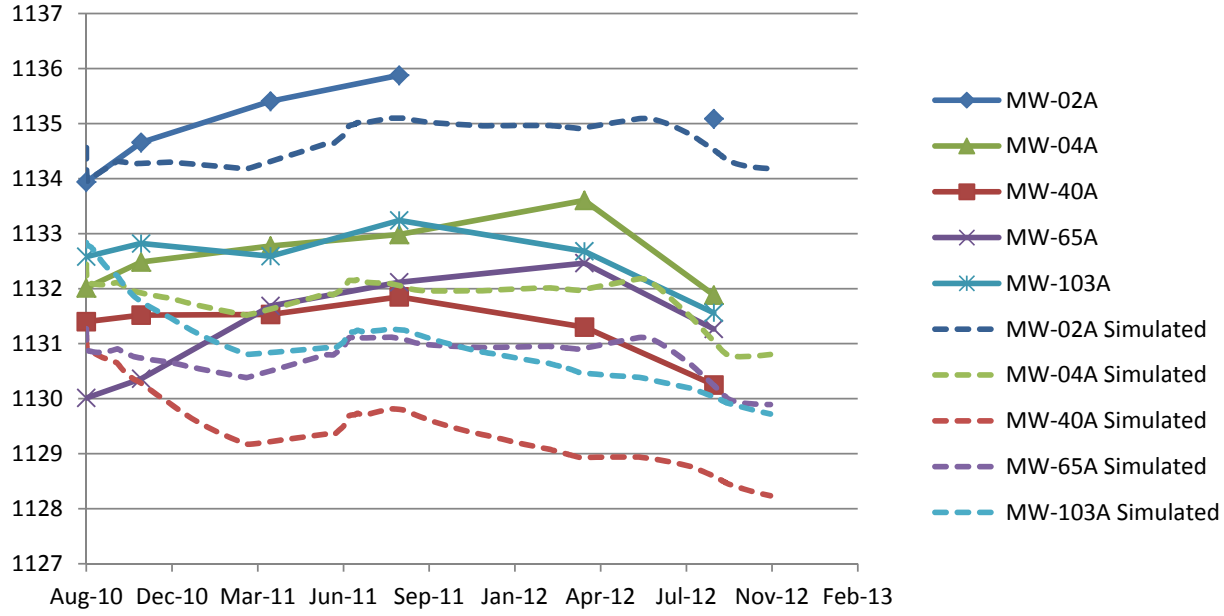


Figure 5-5c
Observed Hydrographs at USACE Monitoring Wells
Elevations 1125-1130 feet above mean sea level

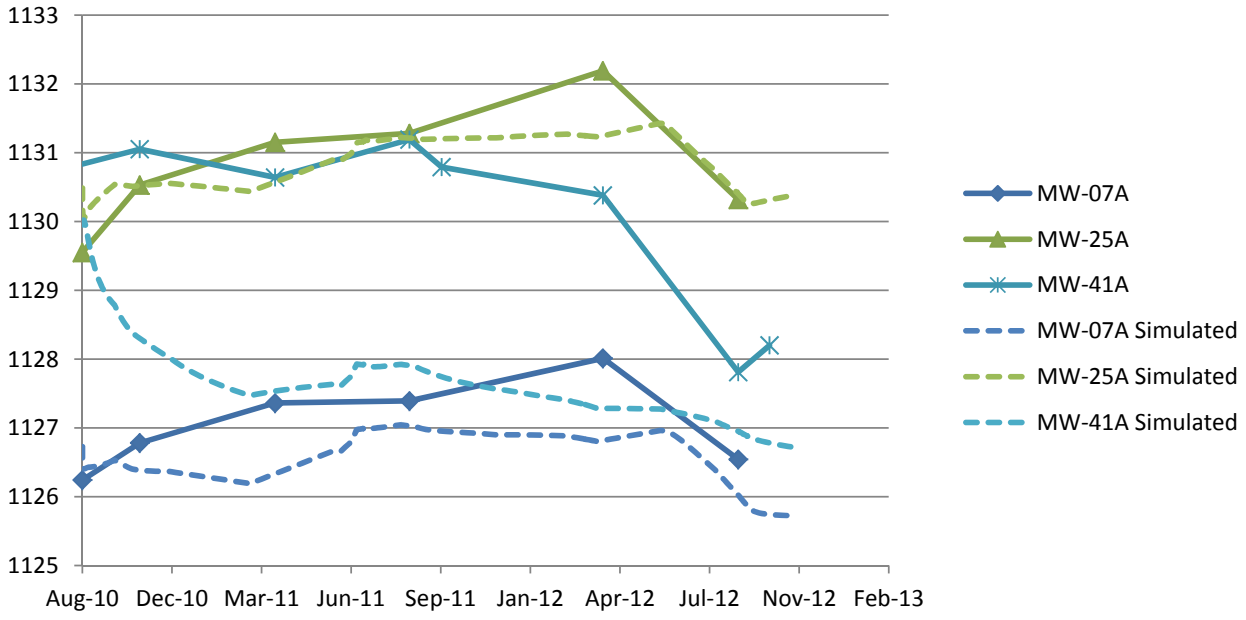


Figure 5-5d
Observed Hydrographs at USACE Monitoring Wells
Elevations 1120-1125 feet above mean sea level

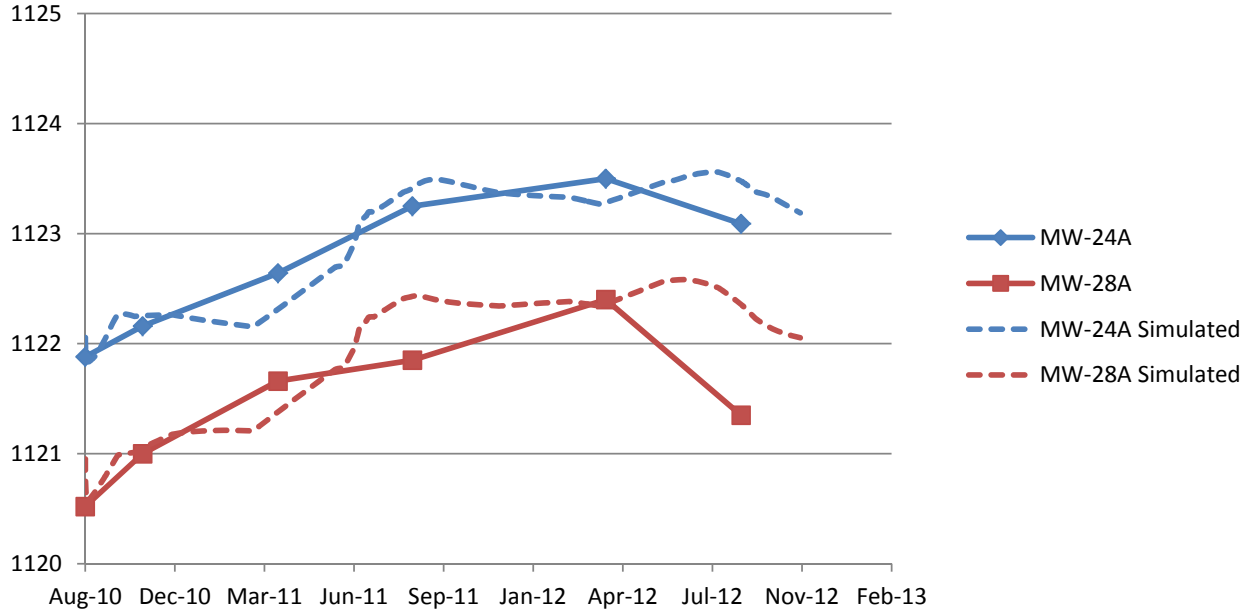


Figure 5-5e
Observed Hydrographs at USACE Monitoring Wells
Elevations 1115-1120 feet above mean sea level

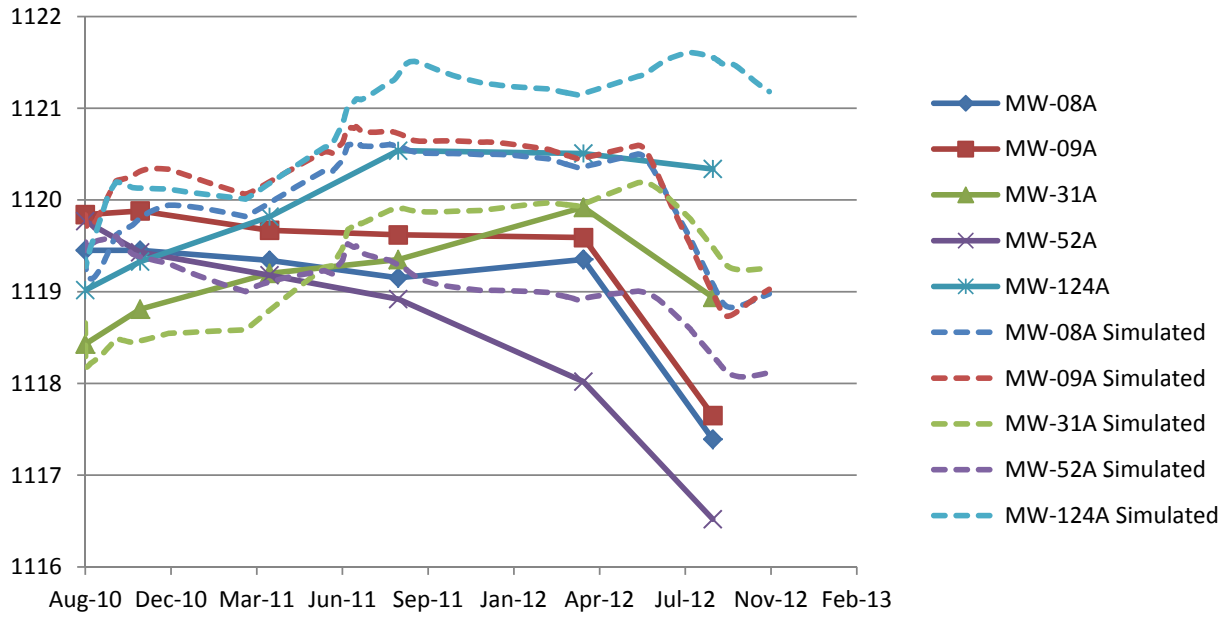


Figure 5-5f
Observed Hydrographs at USACE Monitoring Wells
Elevations 1110-1115 feet above mean sea level

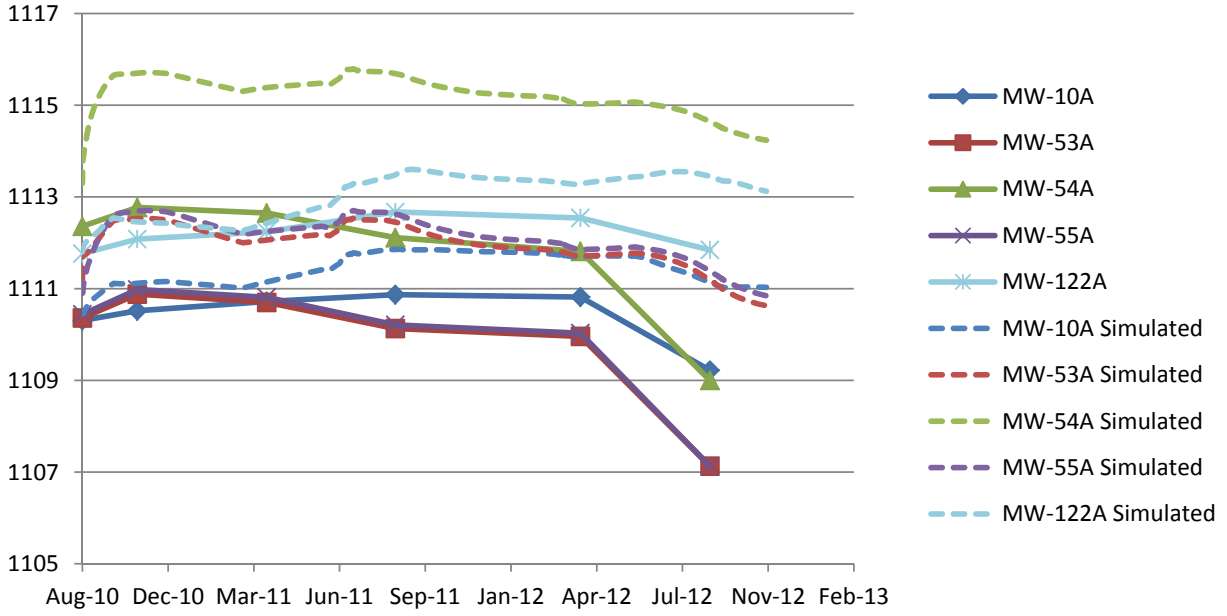


Figure 5-5g
Observed Hydrographs at USACE Monitoring Wells
Elevations 1105-1110 feet above mean sea level

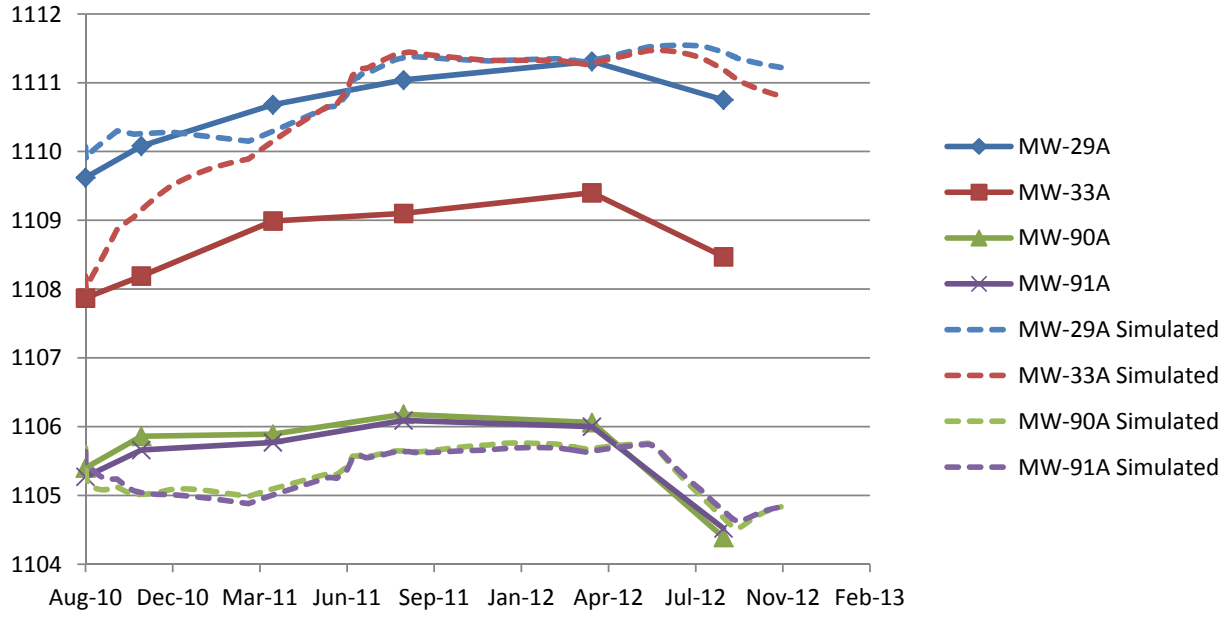


Figure 5-5h
Observed Hydrographs at USACE Monitoring Wells
Elevations 1100-1107 feet above mean sea level

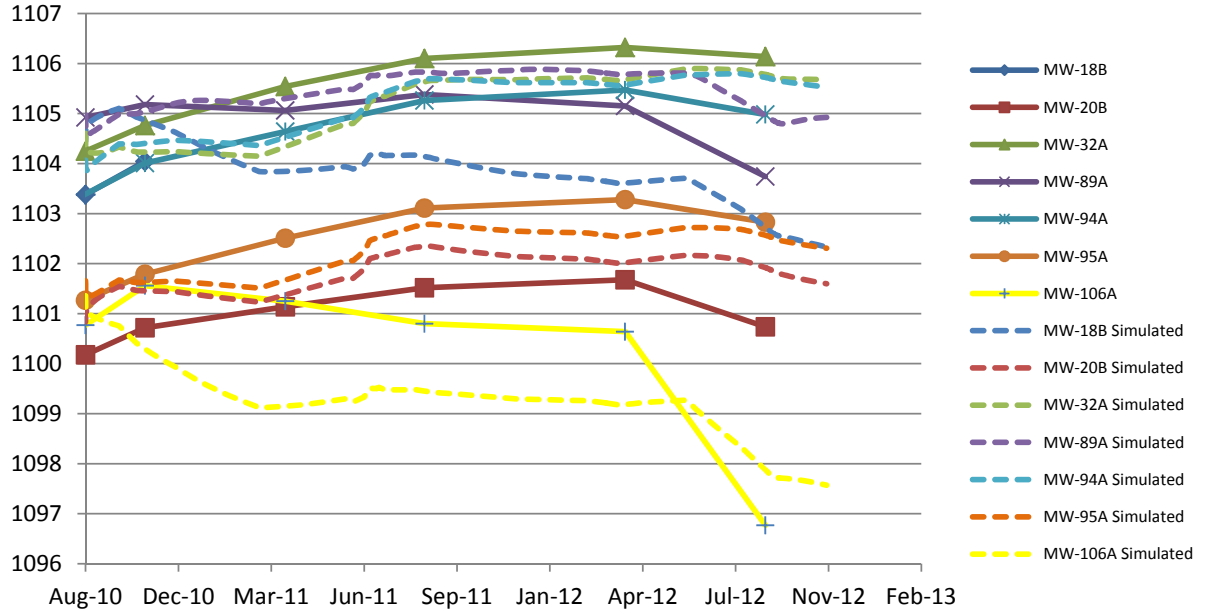


Figure 5-5i
Observed Hydrographs at USACE Monitoring Wells
Elevations 1090-1100 feet above mean sea level

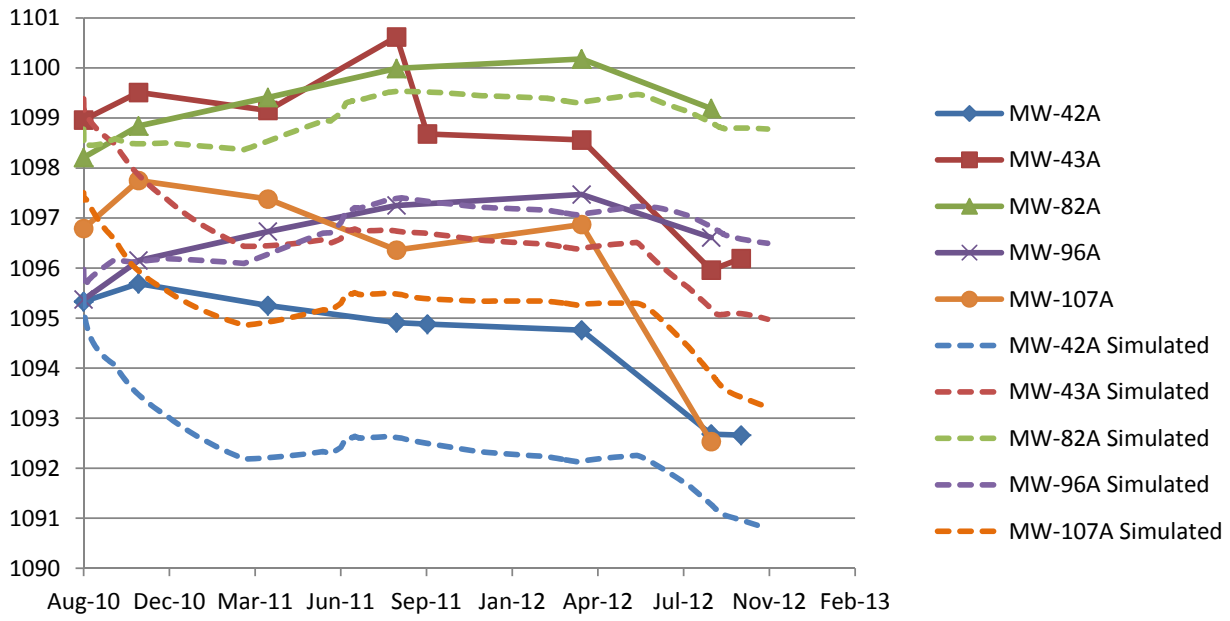


Figure 5-5j
Observed Hydrographs at USACE Monitoring Wells
Elevations 1090-1098 feet above mean sea level

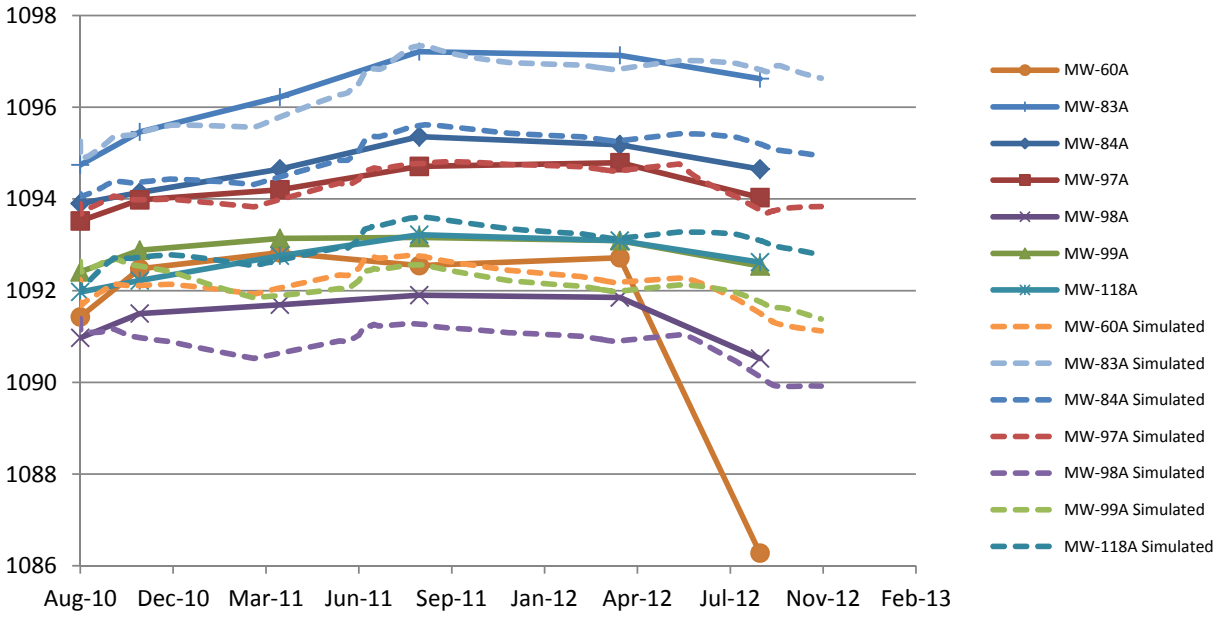


Figure 5-5k
Observed Hydrographs at USACE Monitoring Wells
Elevations 1080-1089 feet above mean sea level

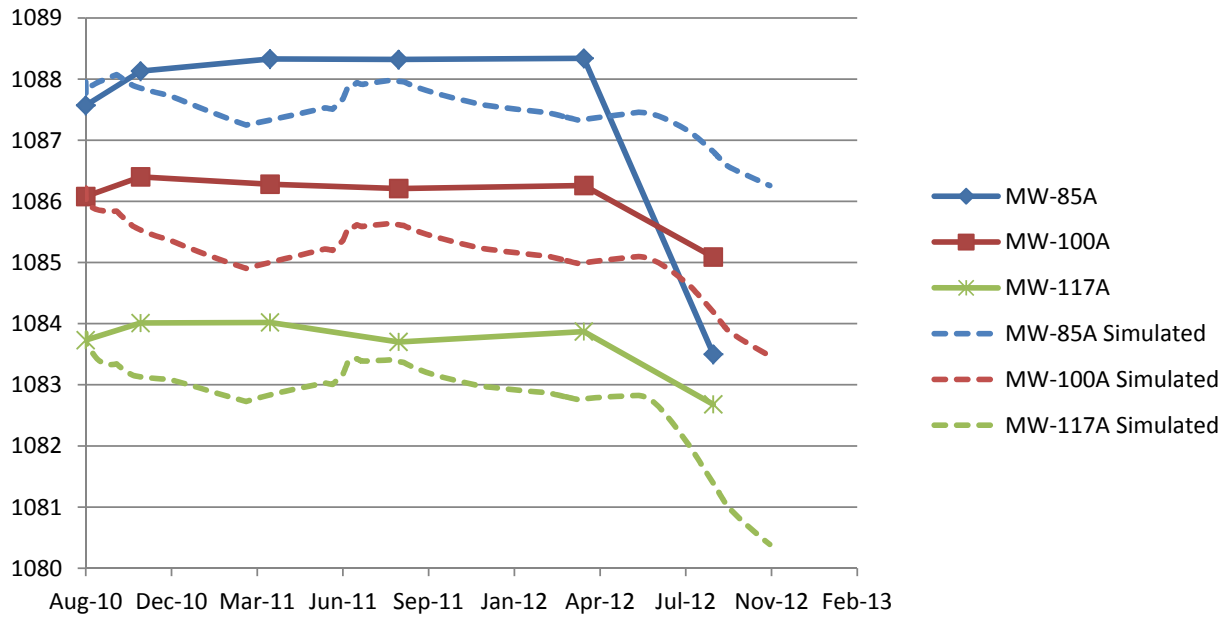
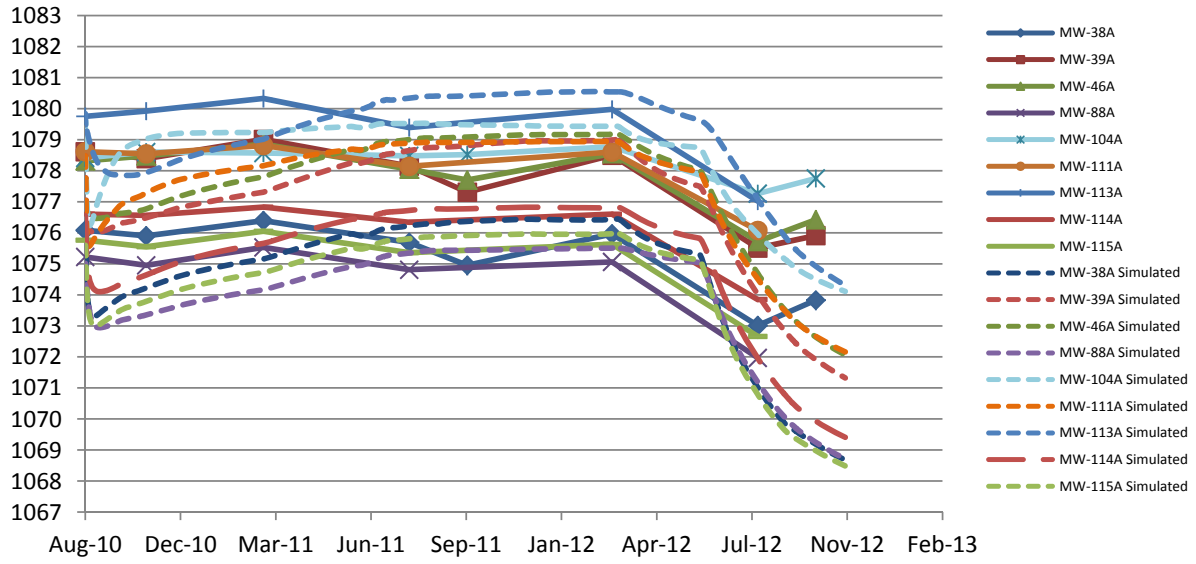


Figure 5-5l
Observed Hydrographs at USACE Monitoring Wells - Platte Valley
Elevations 1067-1083 feet above mean sea level



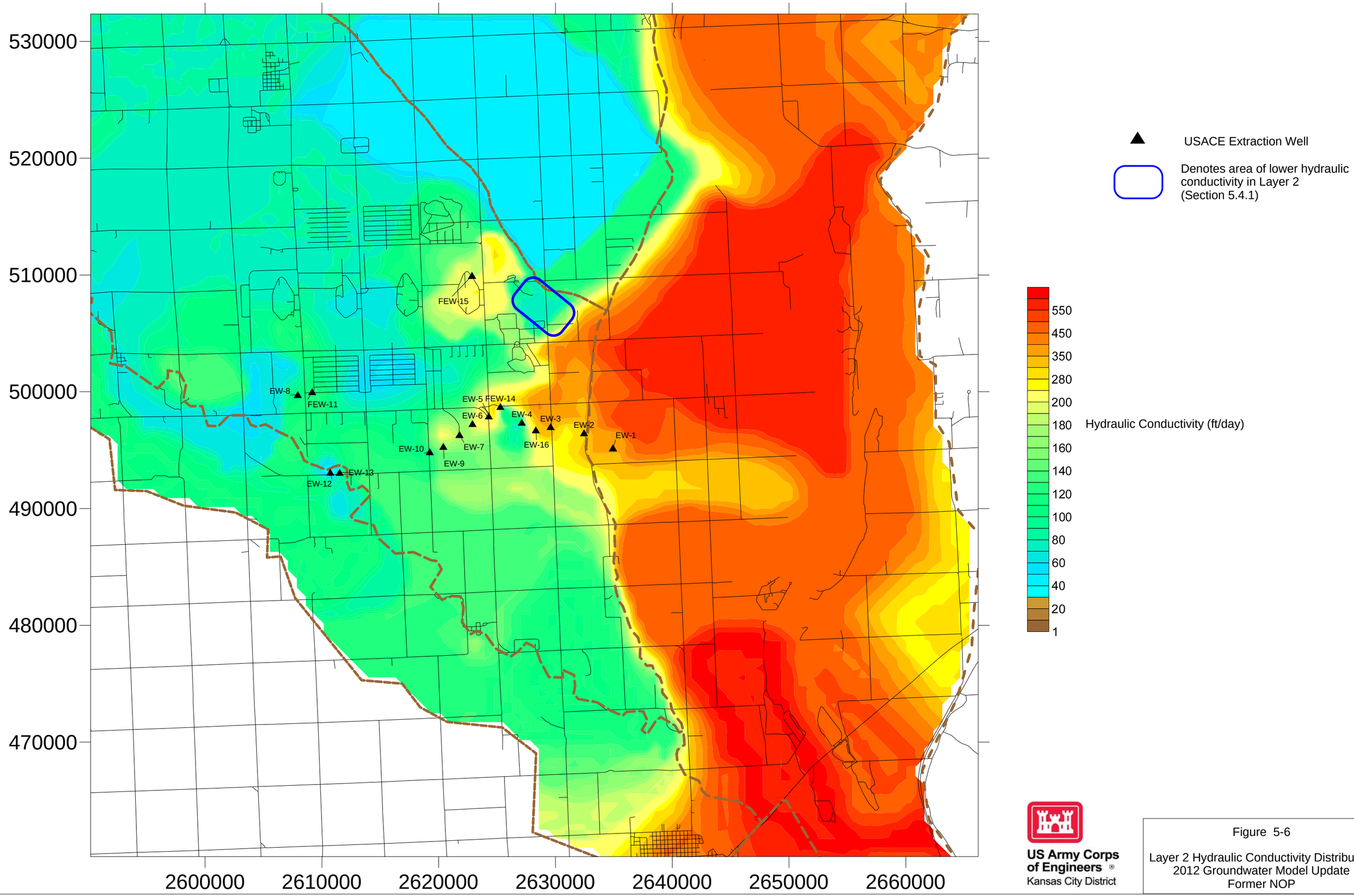


Figure 5-6

Layer 2 Hydraulic Conductivity Distribution
2012 Groundwater Model Update
Former NOP

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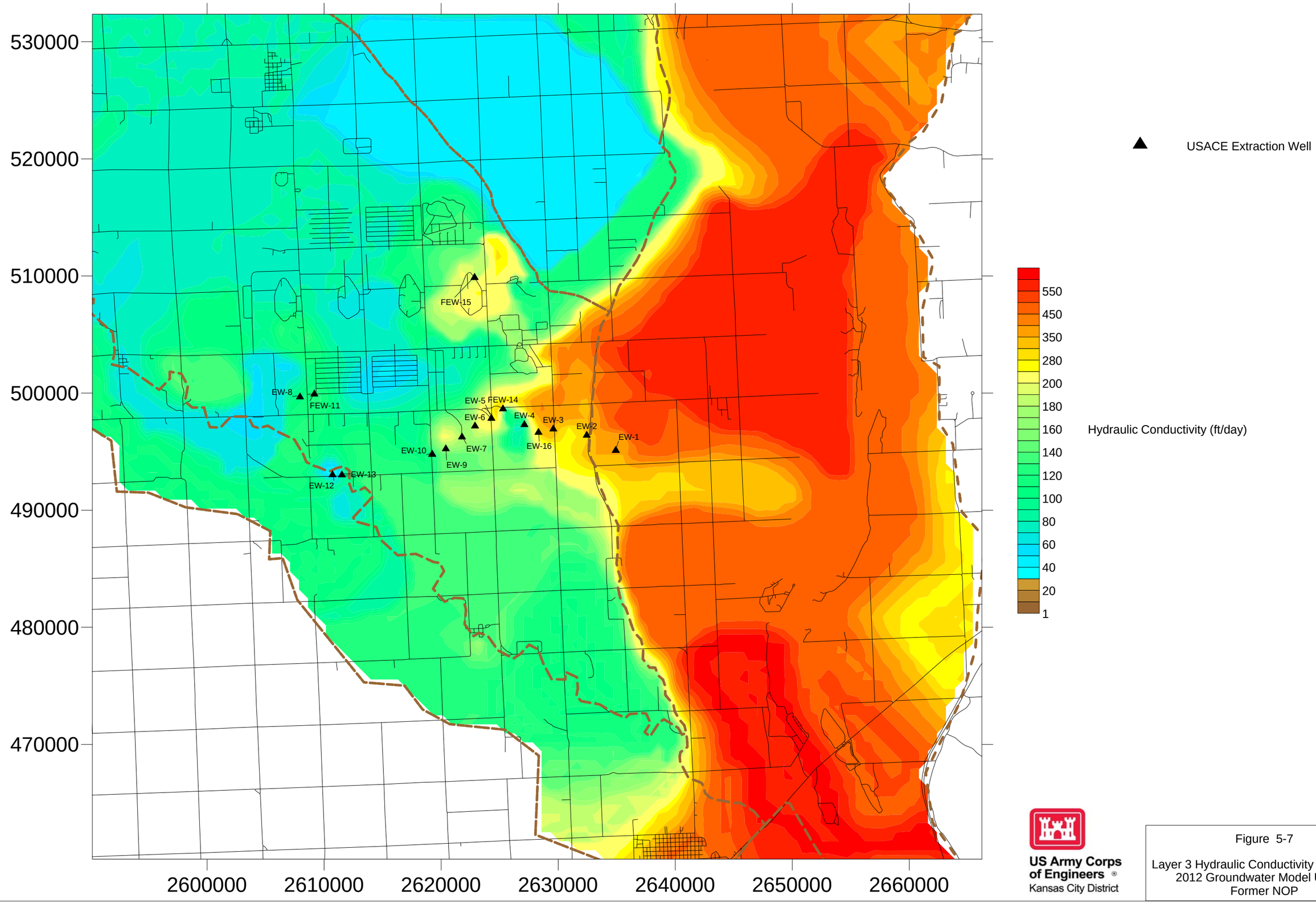

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Kansas City District

Figure 5-7

Layer 3 Hydraulic Conductivity Distribution
2012 Groundwater Model Update
Former NOP

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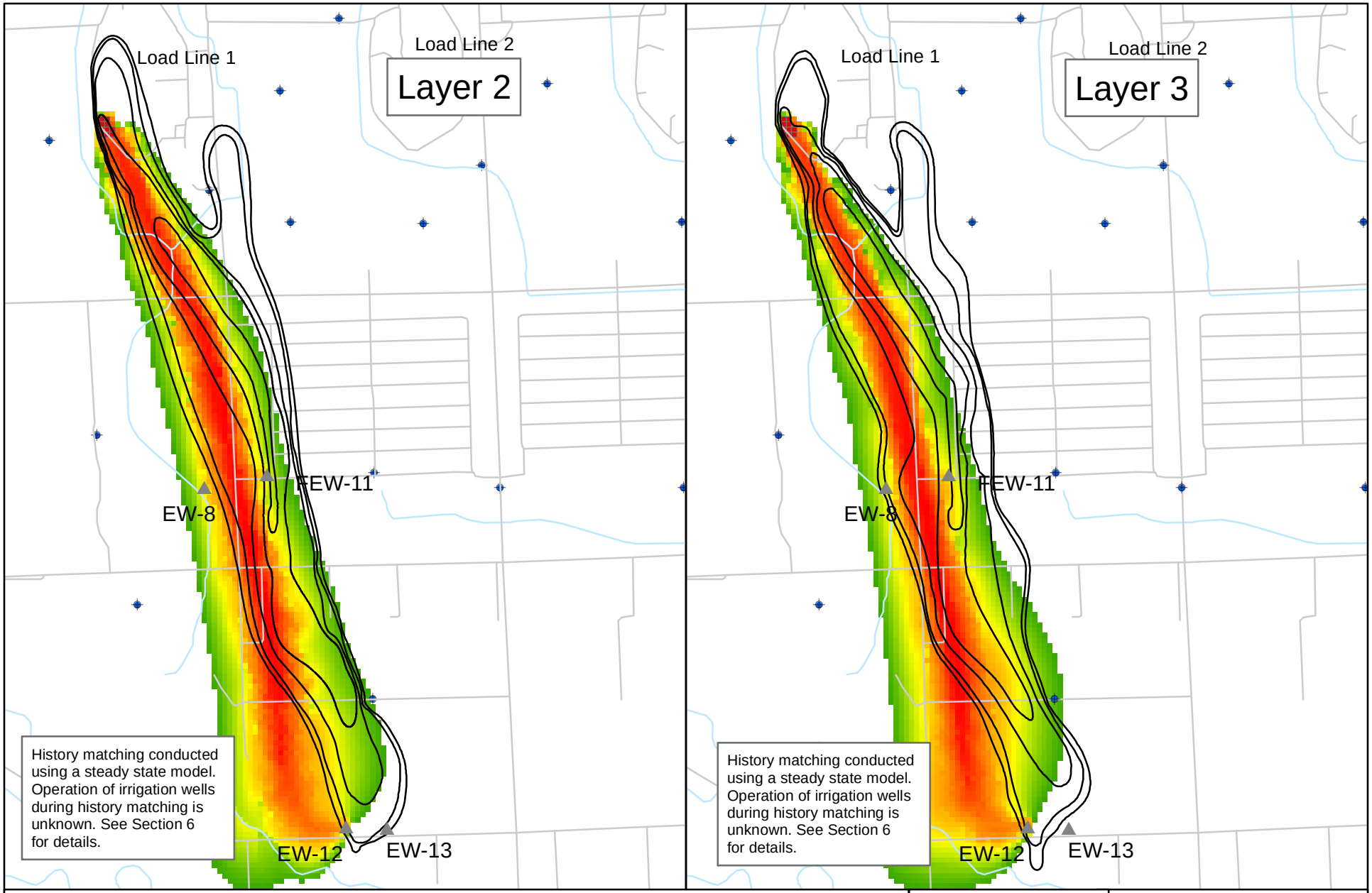

Legend

- USACE Extraction Well
- 2012 Isoconcentration Contour
- Registered Irrigation Well
- Decreasing Concentration Cells

TCE (ug/L)

5	500
20	1,000
50	5,000
100	10,000

N

0 1,500 3,000 Feet

US Army Corps of Engineers
Kansas City District

Figure 6-1

TCE HISTORY MATCHING
LL1

Former NOP

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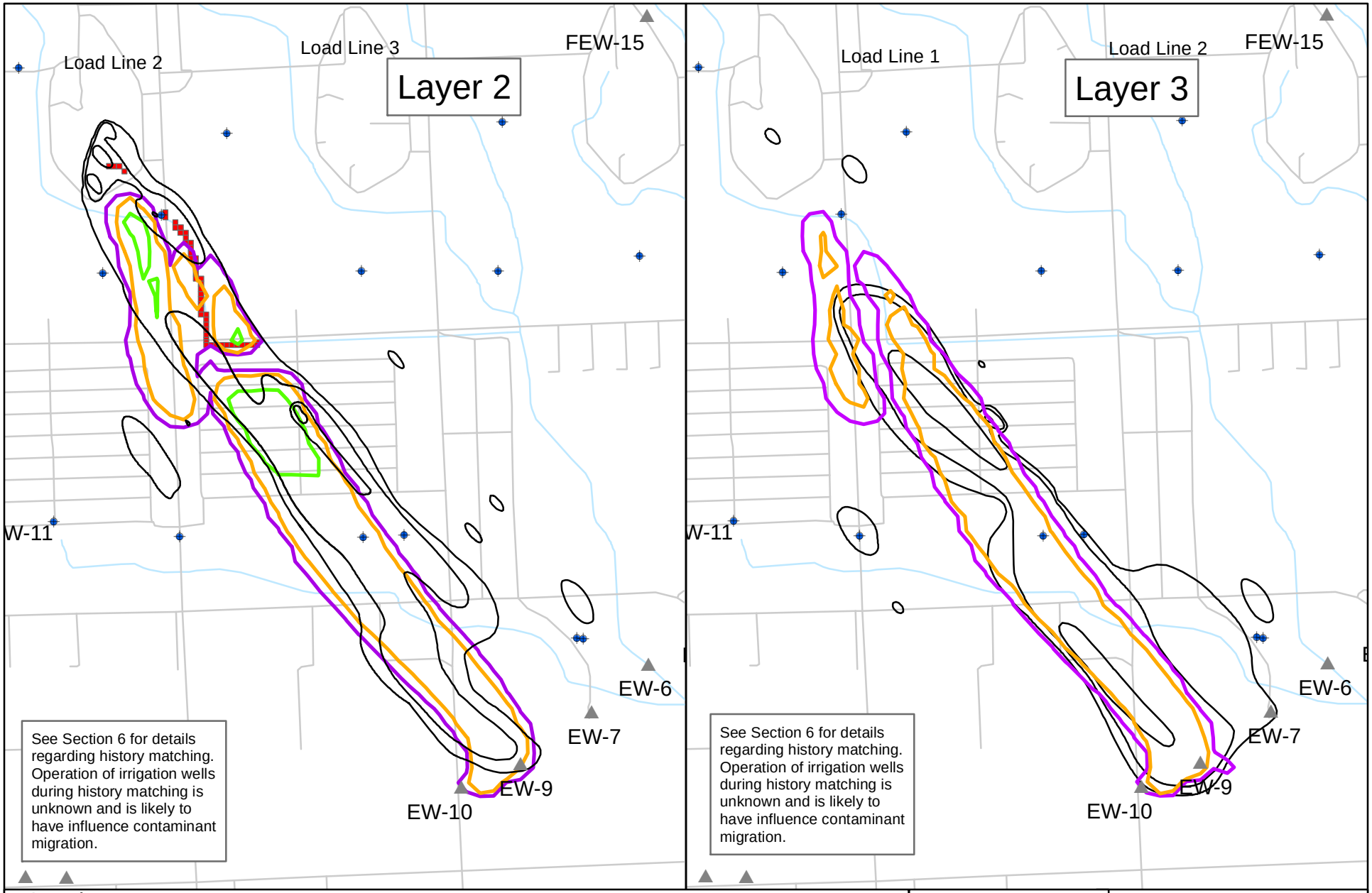

Legend

- Registered Irrigation Well
- USACE Extraction Well
- 2012 Isoconcentration Contour
- Decreasing Concentration Cells

RDX (ug/L)

- 2
- 10
- 50
- 100

N

0 1,500 3,000 Feet

US Army Corps of Engineers
Kansas City District

Figure 6-2

RDX HISTORY MATCHING
LL2

Former NOP

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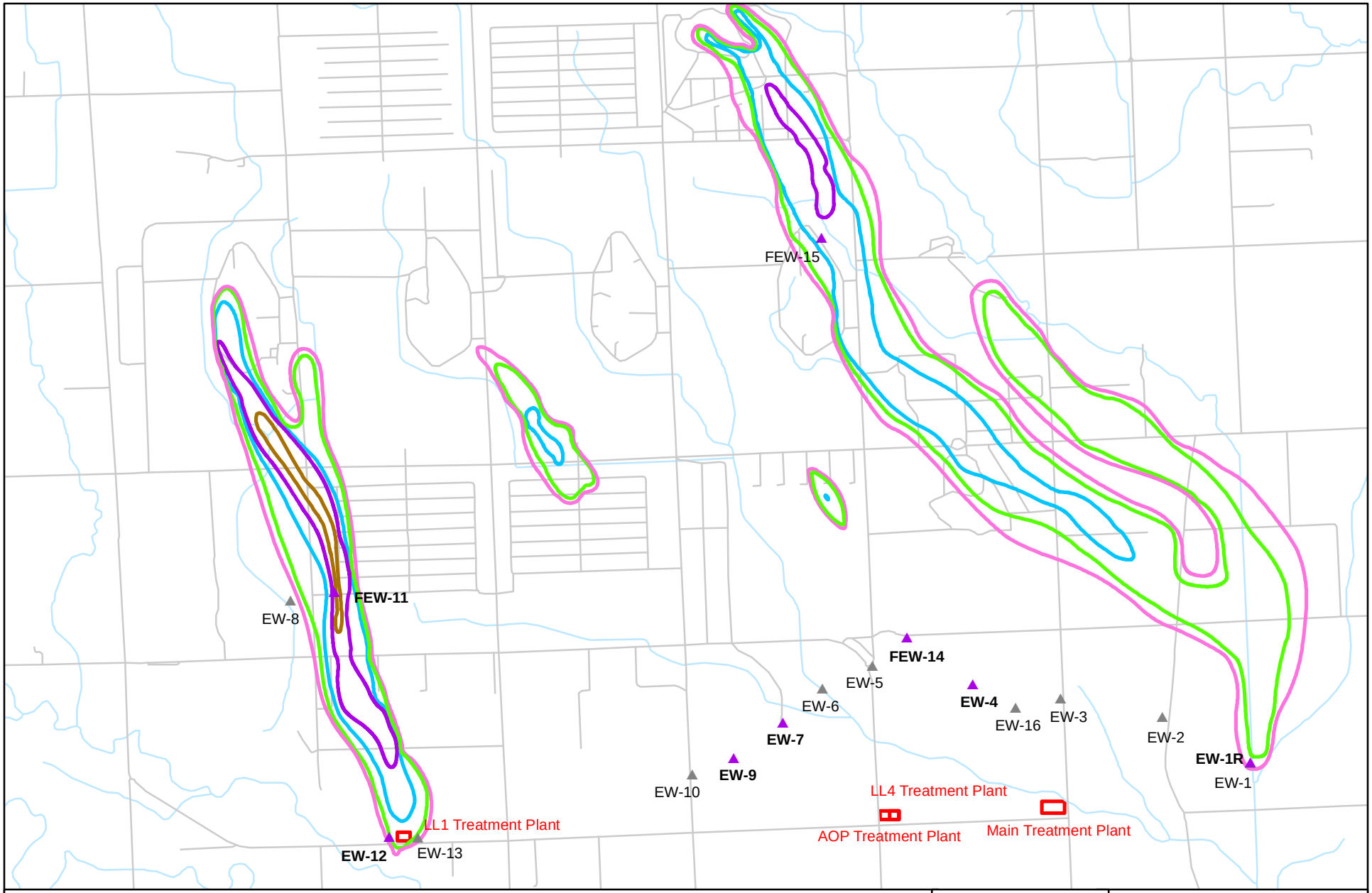

Legend

- Extraction Well
- Extraction Well (Currently Off)
- Treatment Plant

Trichloroethene (TCE) Contours
- 5 ug/L
- 10 ug/L
- 100 ug/L
- 1,000 ug/L
- 10,000 ug/L

N

0 1,500 3,000 6,000 Feet

US Army Corps of Engineers
Kansas City District

Figure 7-1
TCE
Initial Concentrations
LAYER 2

2012 GWM Update

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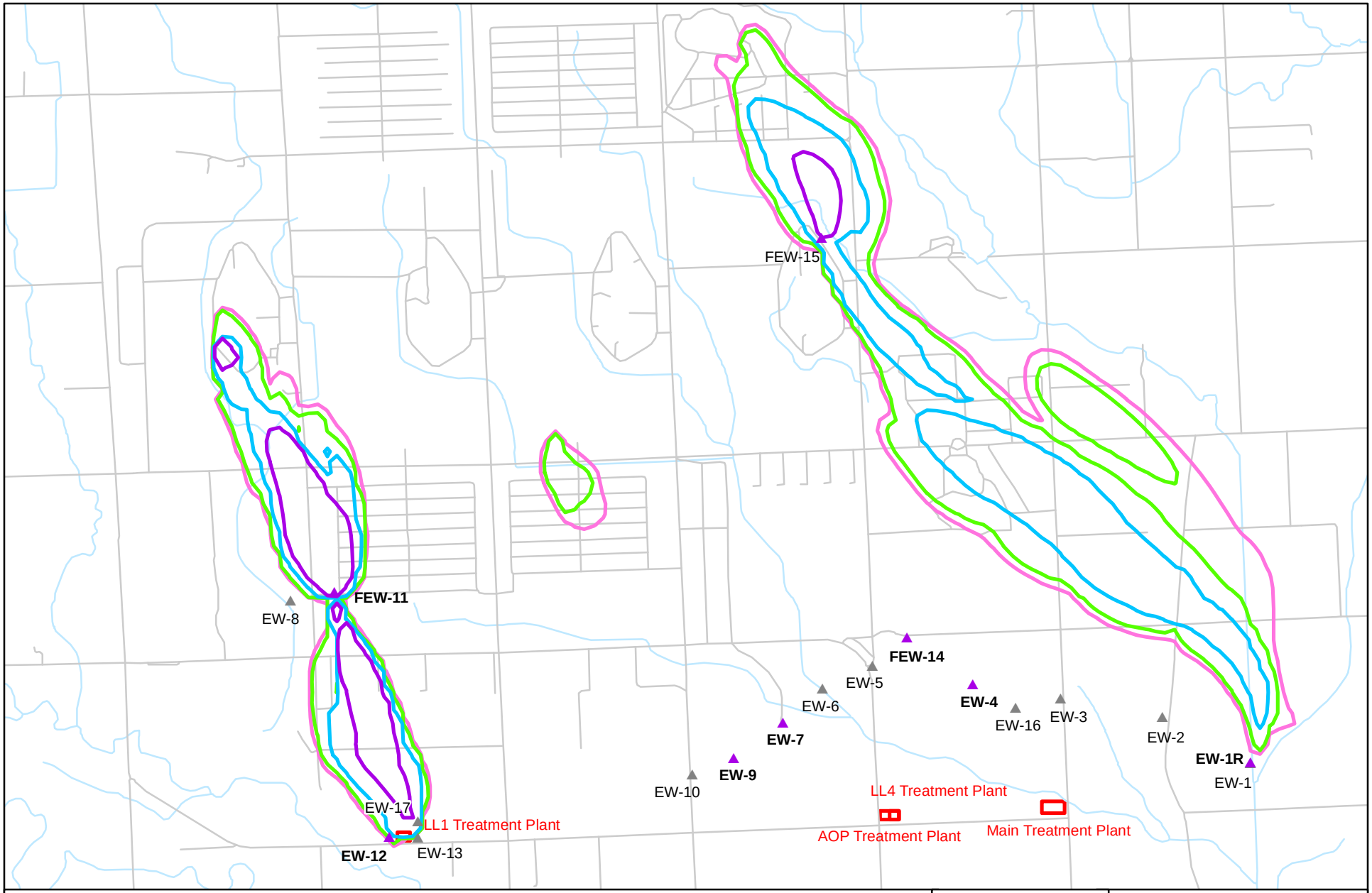

Legend

- Extraction Well
- Extraction Well (Currently Off)
- Treatment Plant

Trichloroethene (TCE) Contours
- 5 ug/L
- 10 ug/L
- 100 ug/L
- 1,000 ug/L
- 10,000 ug/L

N

0 1,500 3,000 6,000 Feet

US Army Corps of Engineers
Kansas City District

Figure 7-2
PREDICTED TCE
LAYER 2
2017

Former NOP

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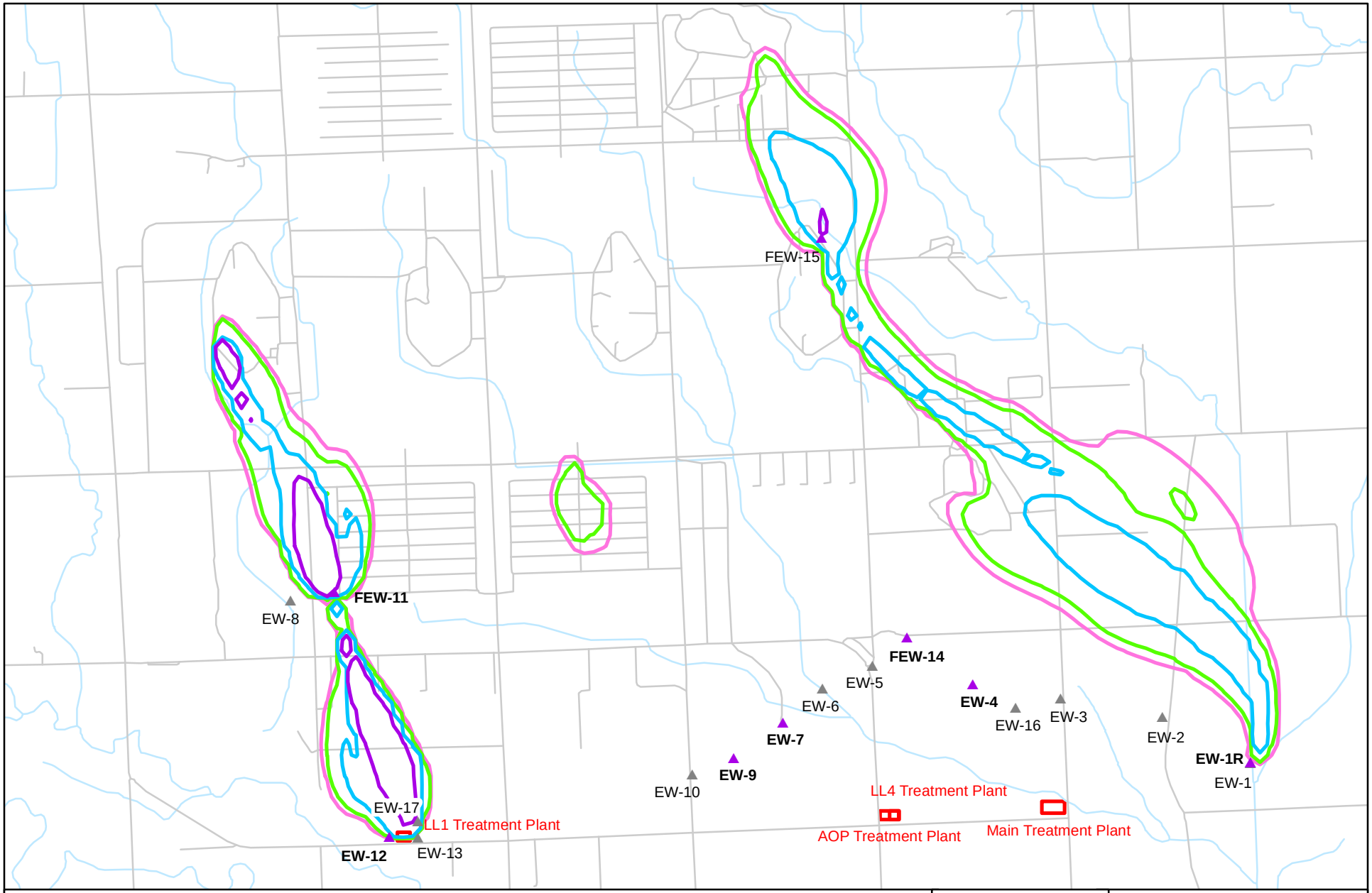

Legend

- Extraction Well
- Extraction Well (Currently Off)
- Treatment Plant

Trichloroethene (TCE) Contours
- 5 ug/L
- 10 ug/L
- 100 ug/L
- 1,000 ug/L
- 10,000 ug/L

N

0 1,500 3,000 6,000 Feet

US Army Corps of Engineers
Kansas City District

Figure 7-3
PREDICTED TCE
LAYER 2
2022

Former NOP

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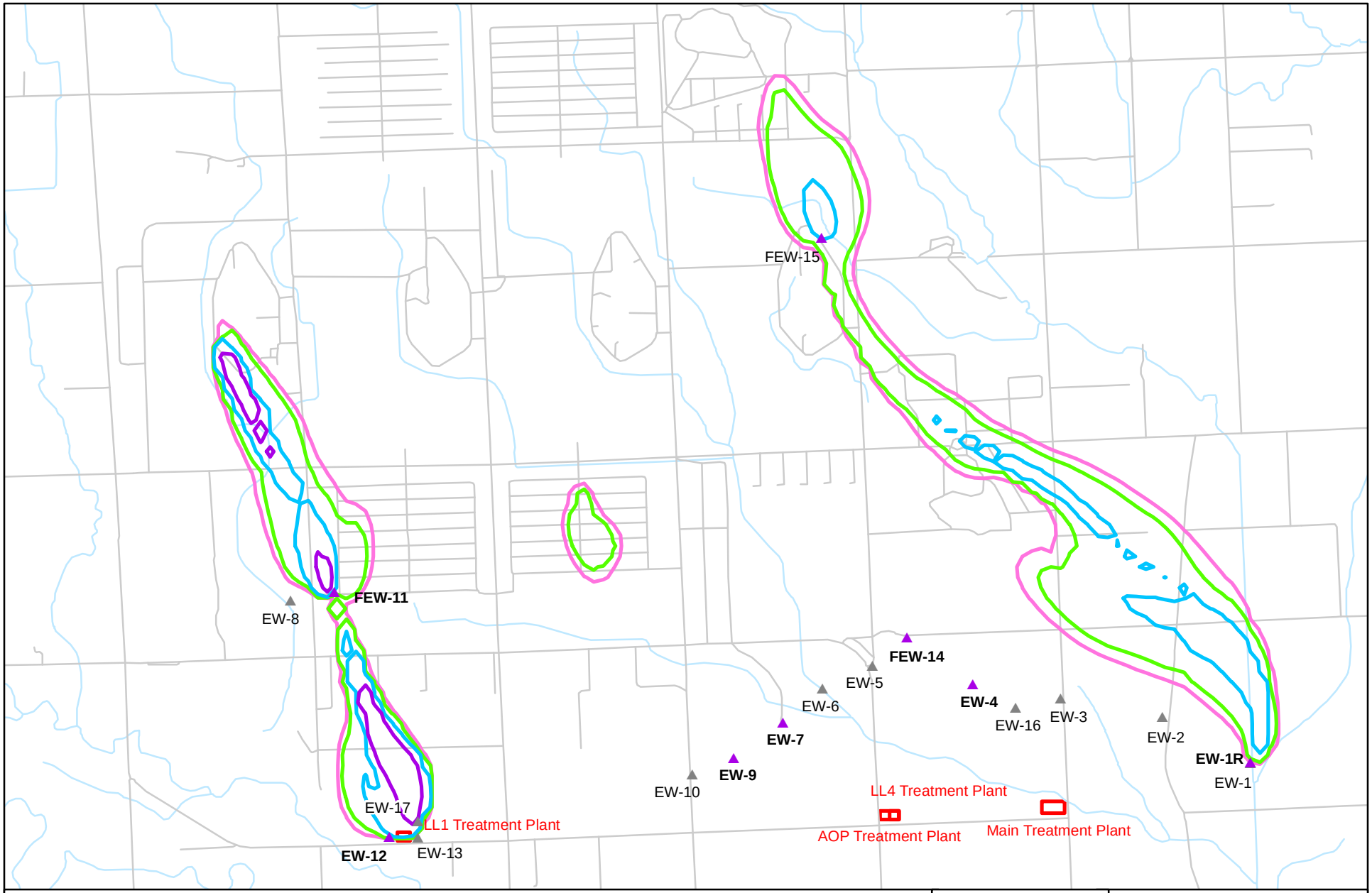

Legend

- Extraction Well
- Extraction Well (Currently Off)
- Treatment Plant

Trichloroethene (TCE) Contours
- 5 ug/L
- 10 ug/L
- 100 ug/L
- 1,000 ug/L
- 10,000 ug/L

N

0 1,500 3,000 6,000 Feet

US Army Corps of Engineers
Kansas City District

Figure 7-4
PREDICTED TCE
LAYER 2
2027

Former NOP

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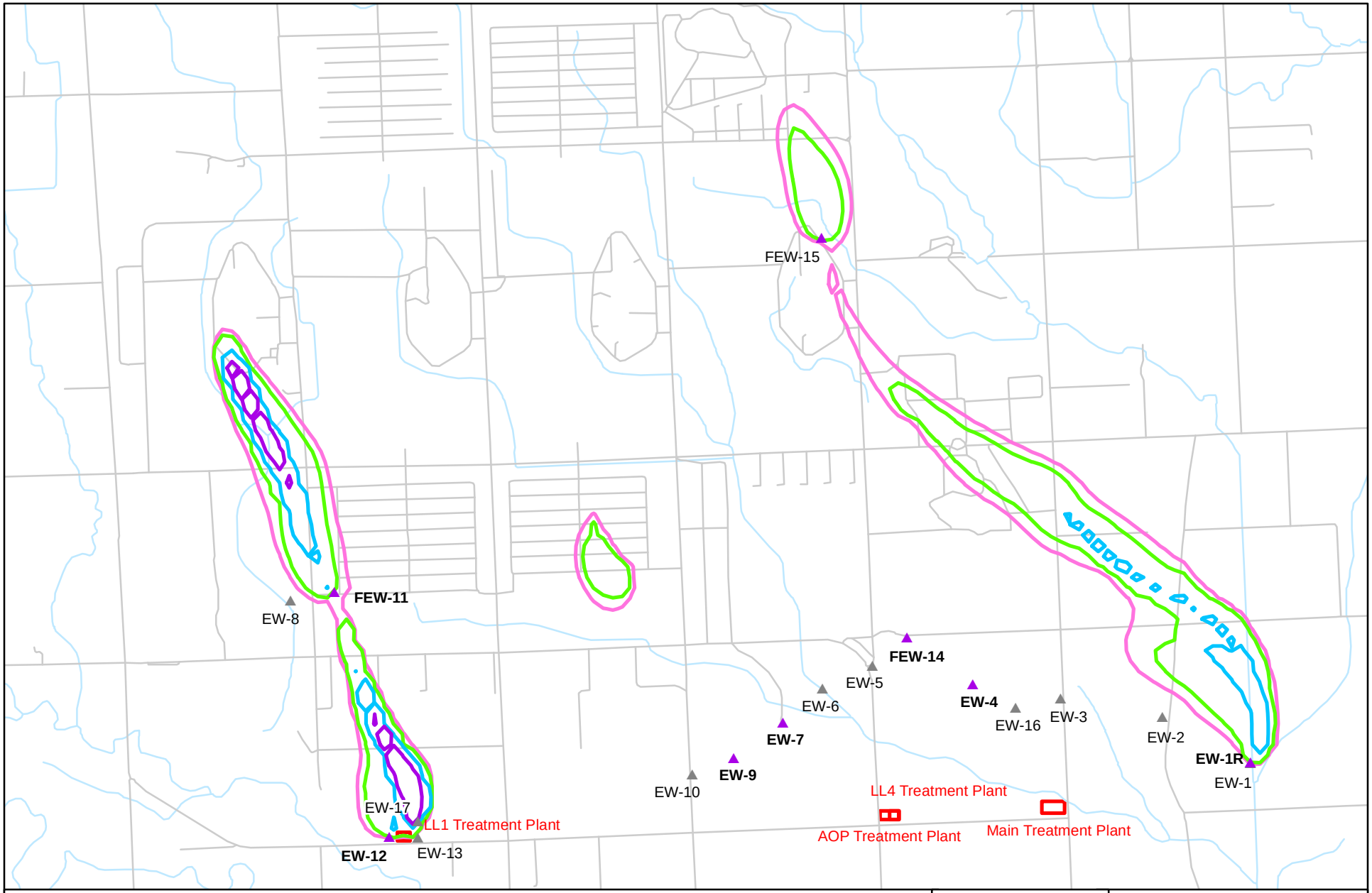

Legend

- Extraction Well
- Extraction Well (Currently Off)
- Treatment Plant

Trichloroethene (TCE) Contours

- 5 ug/L
- 10 ug/L
- 100 ug/L
- 1,000 ug/L
- 10,000 ug/L

N

0 1,500 3,000 6,000 Feet

US Army Corps of Engineers
Kansas City District

Figure 7-5

PREDICTED TCE
LAYER 2
2032

Former NOP

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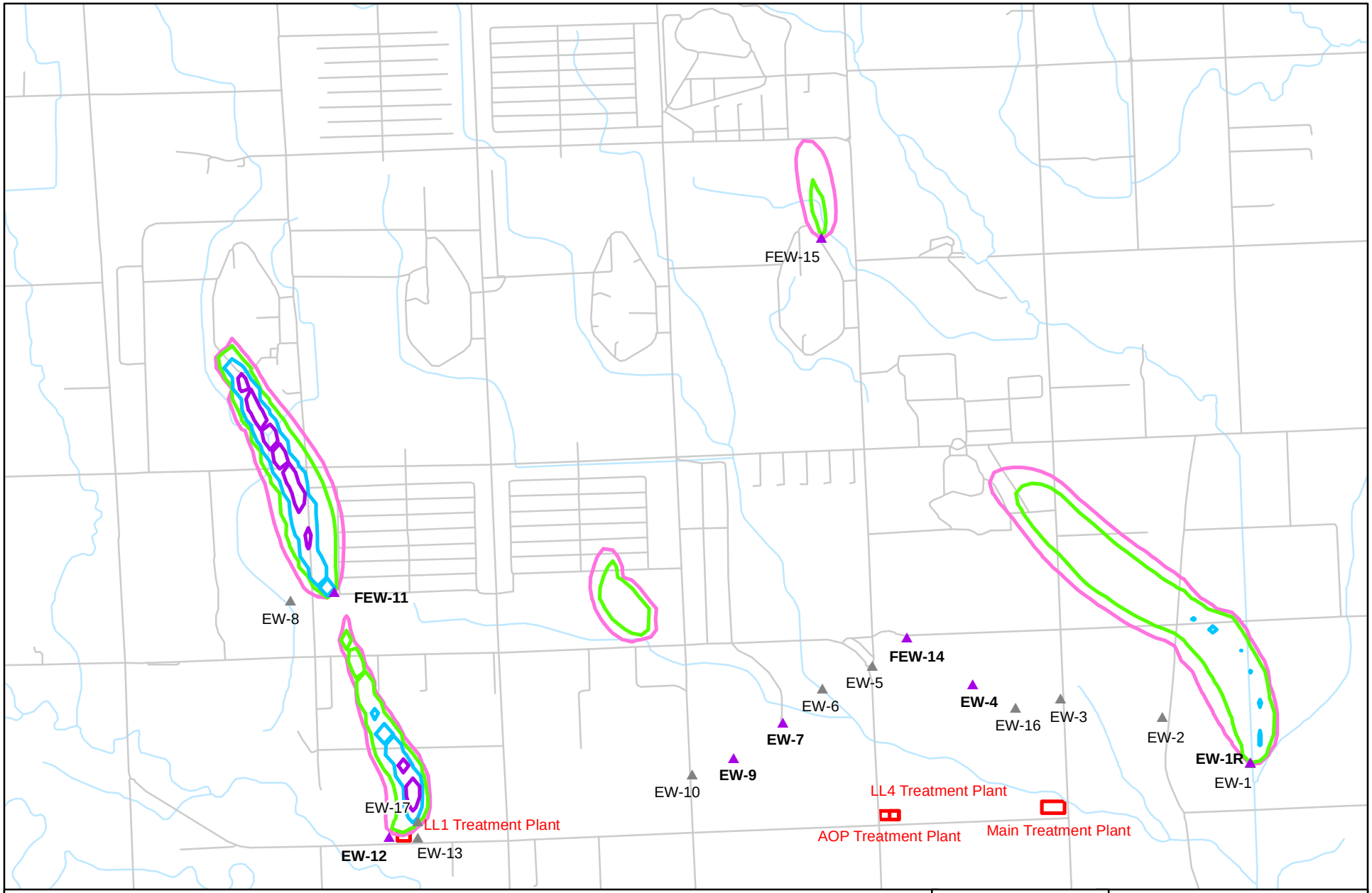

Legend

- Extraction Well
- Extraction Well (Currently Off)
- Treatment Plant

Trichloroethene (TCE) Contours
- 5 ug/L
- 10 ug/L
- 100 ug/L
- 1,000 ug/L
- 10,000 ug/L

N

0 1,500 3,000 6,000 Feet

US Army Corps of Engineers
Kansas City District

Figure 7-6
PREDICTED TCE
LAYER 2
2037

Former NOP

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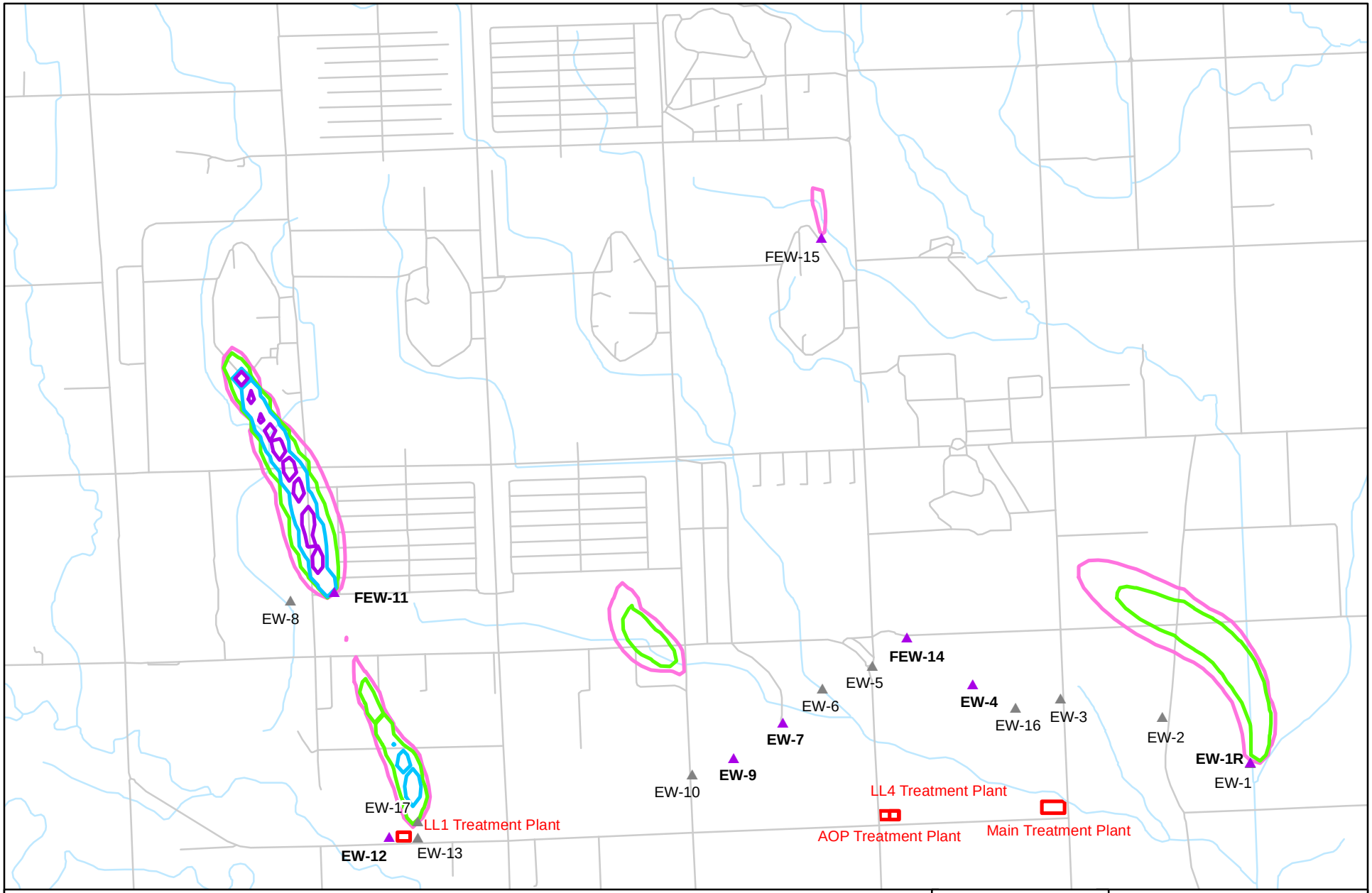

Legend

- Extraction Well
- Extraction Well (Currently Off)
- Treatment Plant

Trichloroethene (TCE) Contours
- 5 ug/L
- 10 ug/L
- 100 ug/L
- 1,000 ug/L
- 10,000 ug/L

N

0 1,500 3,000 6,000 Feet

US Army Corps of Engineers
Kansas City District

Figure 7-7

PREDICTED TCE
LAYER 2
2042

Former NOP

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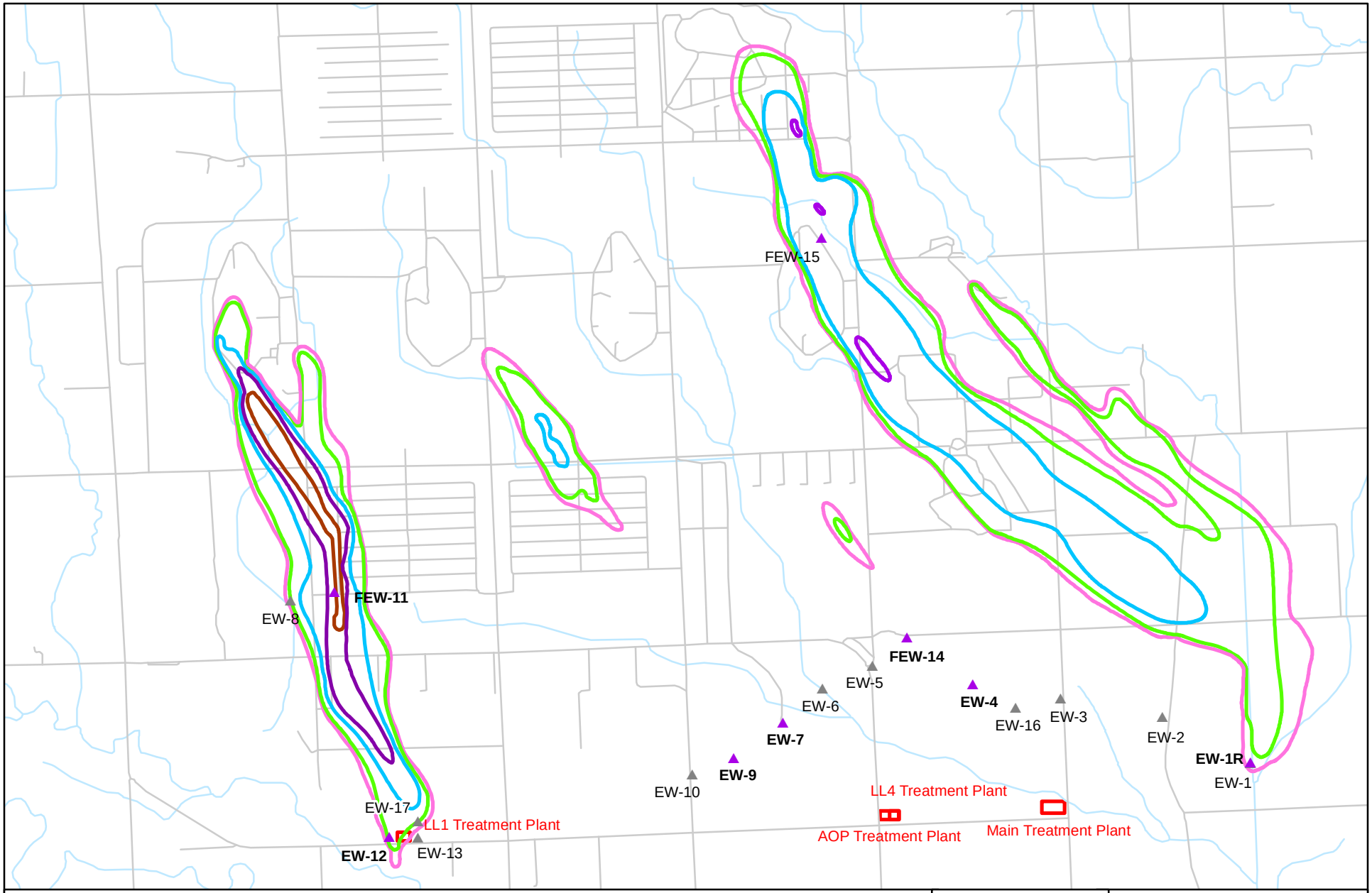

Legend

- Extraction Well
- Extraction Well (Currently Off)
- Treatment Plant

Trichloroethene (TCE) Contours
- 5 ug/L
- 10 ug/L
- 100 ug/L
- 1,000 ug/L
- 10,000 ug/L

N

0 1,500 3,000 6,000 Feet

US Army Corps of Engineers
Kansas City District

Figure 7-8
TCE
Initial Concentrations
LAYER 3

2012 GWM Update

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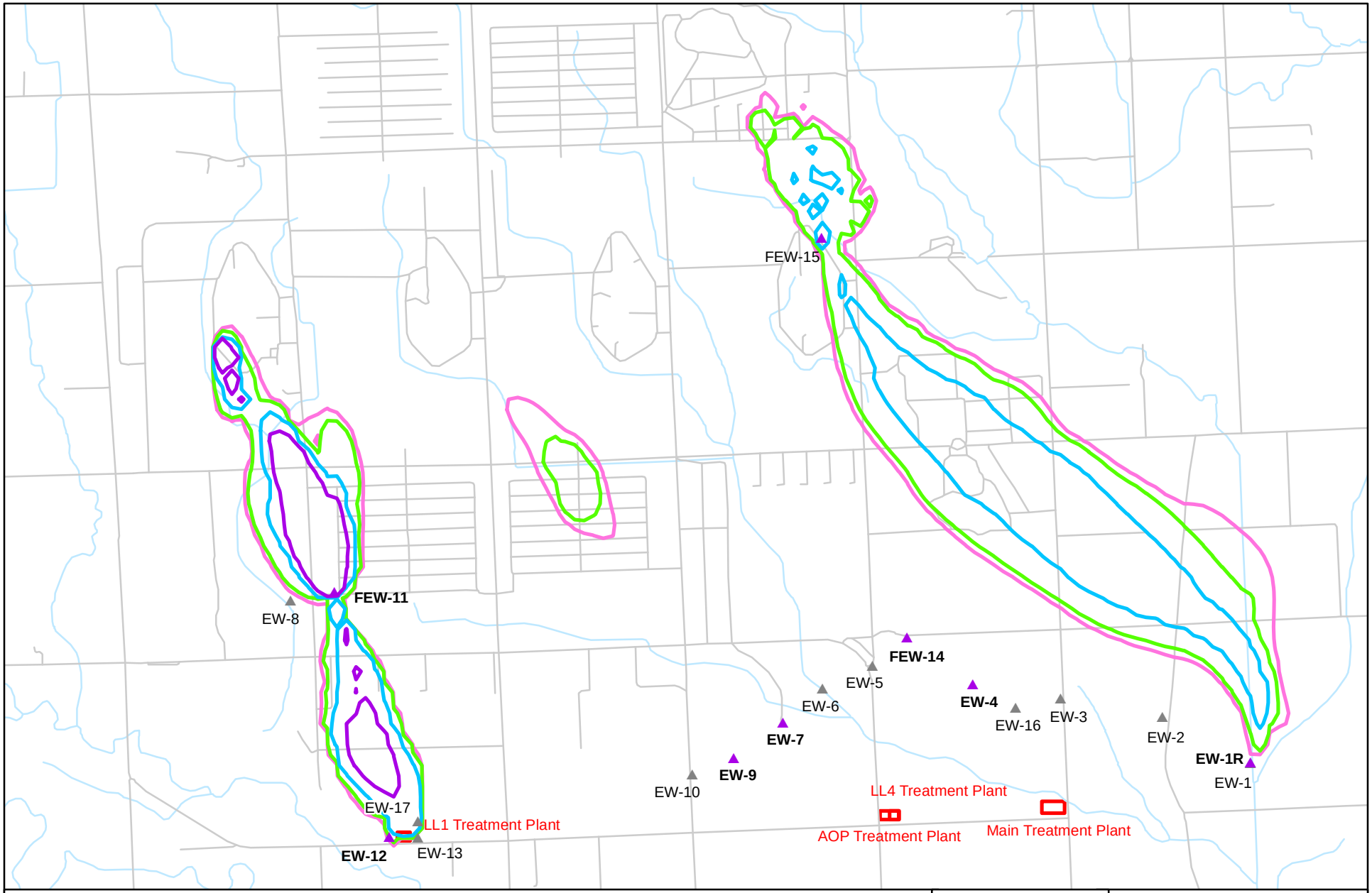

Legend

- Extraction Well
- Extraction Well (Currently Off)
- Treatment Plant

Trichloroethene (TCE) Contours
- 5 ug/L
- 10 ug/L
- 100 ug/L
- 1,000 ug/L
- 10,000 ug/L

N

0 1,500 3,000 6,000 Feet

US Army Corps of Engineers
Kansas City District

Figure 7-9
PREDICTED TCE
LAYER 3
2017

Former NOP

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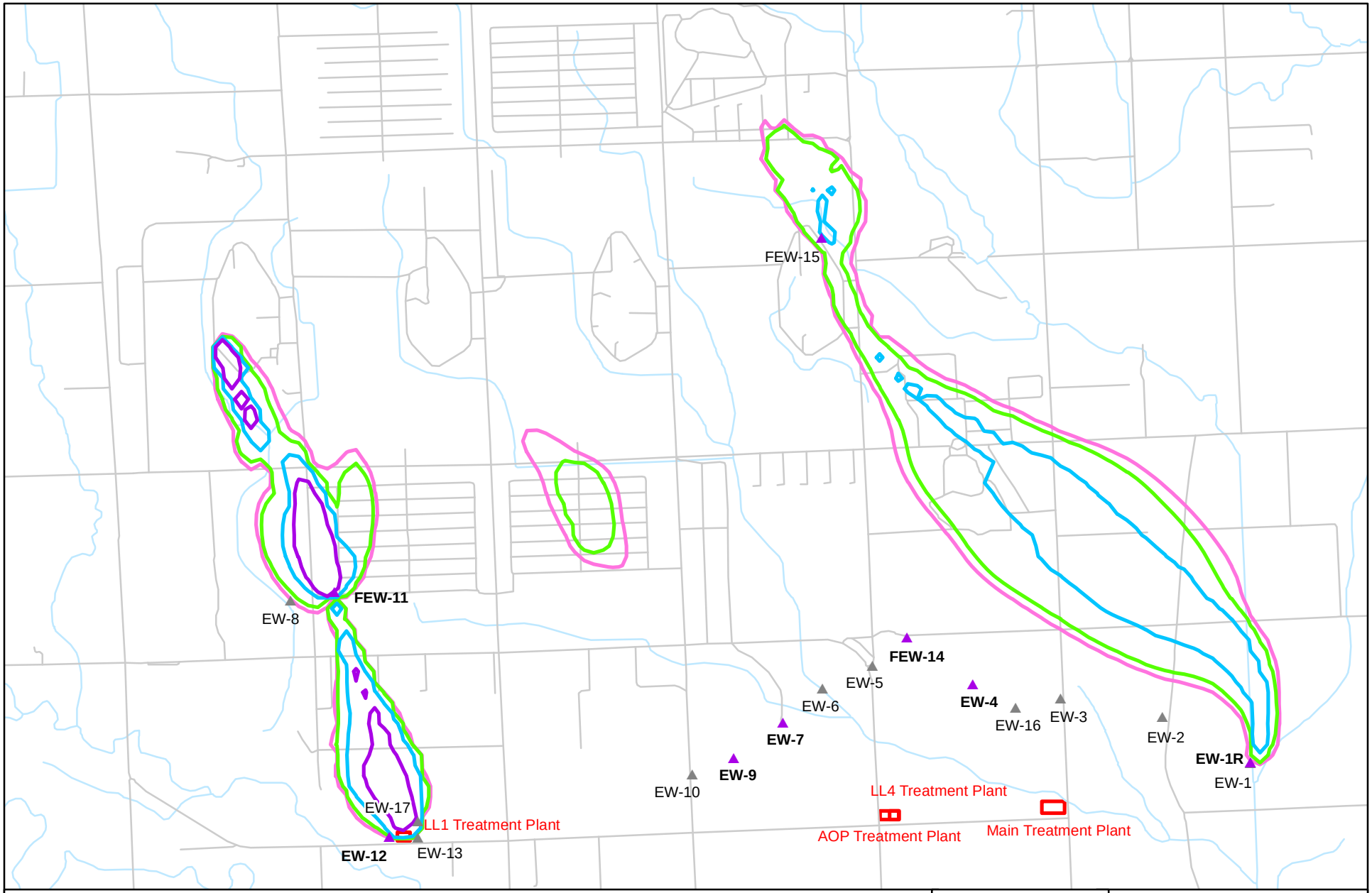

Legend

- Extraction Well
- Extraction Well (Currently Off)
- Treatment Plant

Trichloroethene (TCE) Contours
- 5 ug/L
- 10 ug/L
- 100 ug/L
- 1,000 ug/L
- 10,000 ug/L

N

0 1,500 3,000 6,000 Feet

US Army Corps of Engineers
Kansas City District

Figure 7-10
PREDICTED TCE
LAYER 3
2022

Former NOP

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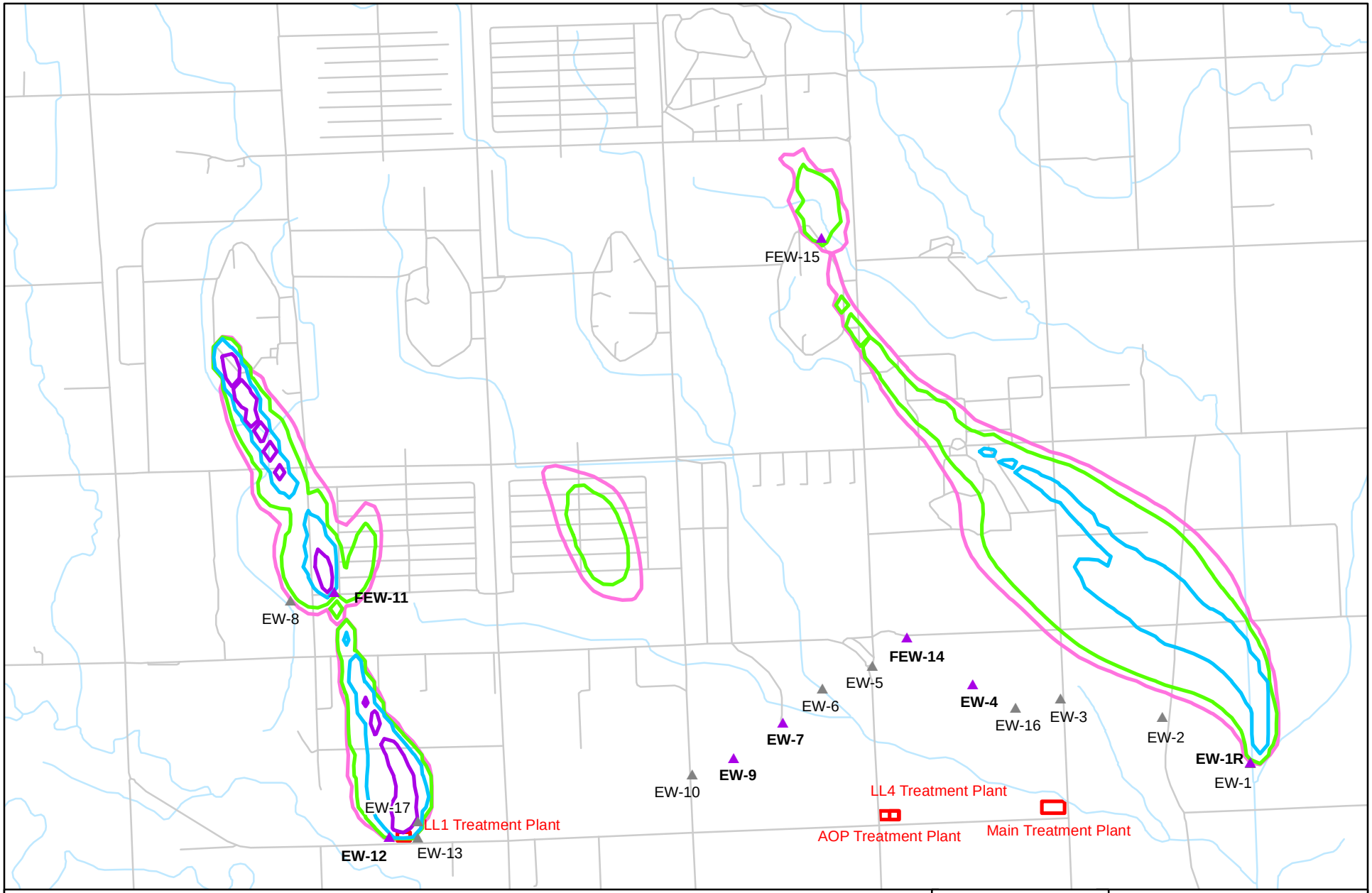

Legend

- Extraction Well
- Extraction Well (Currently Off)
- Treatment Plant

Trichloroethene (TCE) Contours
- 5 ug/L
- 10 ug/L
- 100 ug/L
- 1,000 ug/L
- 10,000 ug/L

N

0 1,500 3,000 6,000 Feet

US Army Corps of Engineers
Kansas City District

Figure 7-11
PREDICTED TCE
LAYER 3
2027

Former NOP

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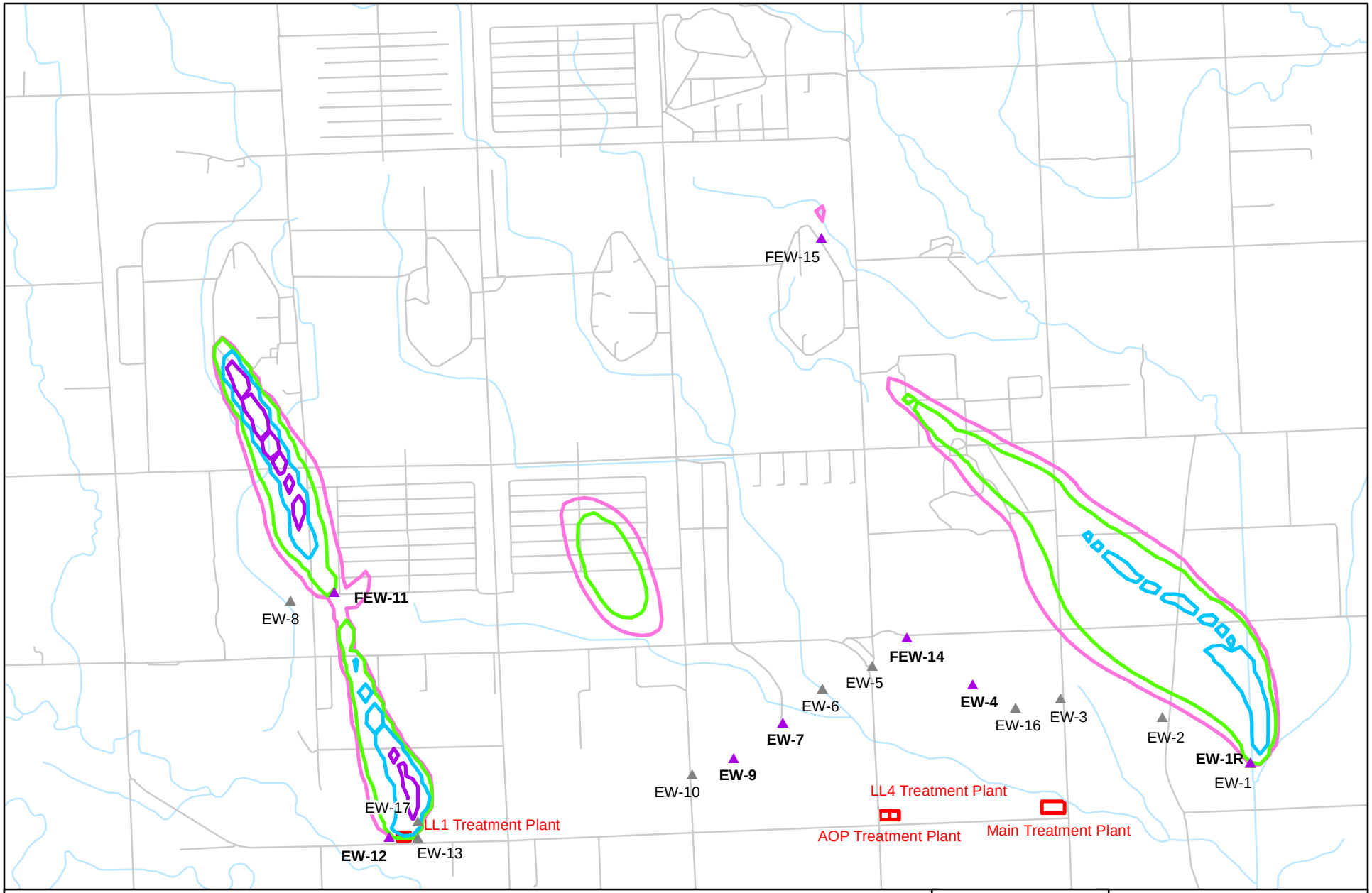

Legend

- Extraction Well
- Extraction Well (Currently Off)
- Treatment Plant

Trichloroethene (TCE) Contours
- 5 ug/L
- 10 ug/L
- 100 ug/L
- 1,000 ug/L
- 10,000 ug/L

N

0 1,500 3,000 6,000 Feet

US Army Corps of Engineers
Kansas City District

Figure 7-12

PREDICTED TCE
LAYER 3
2032

Former NOP

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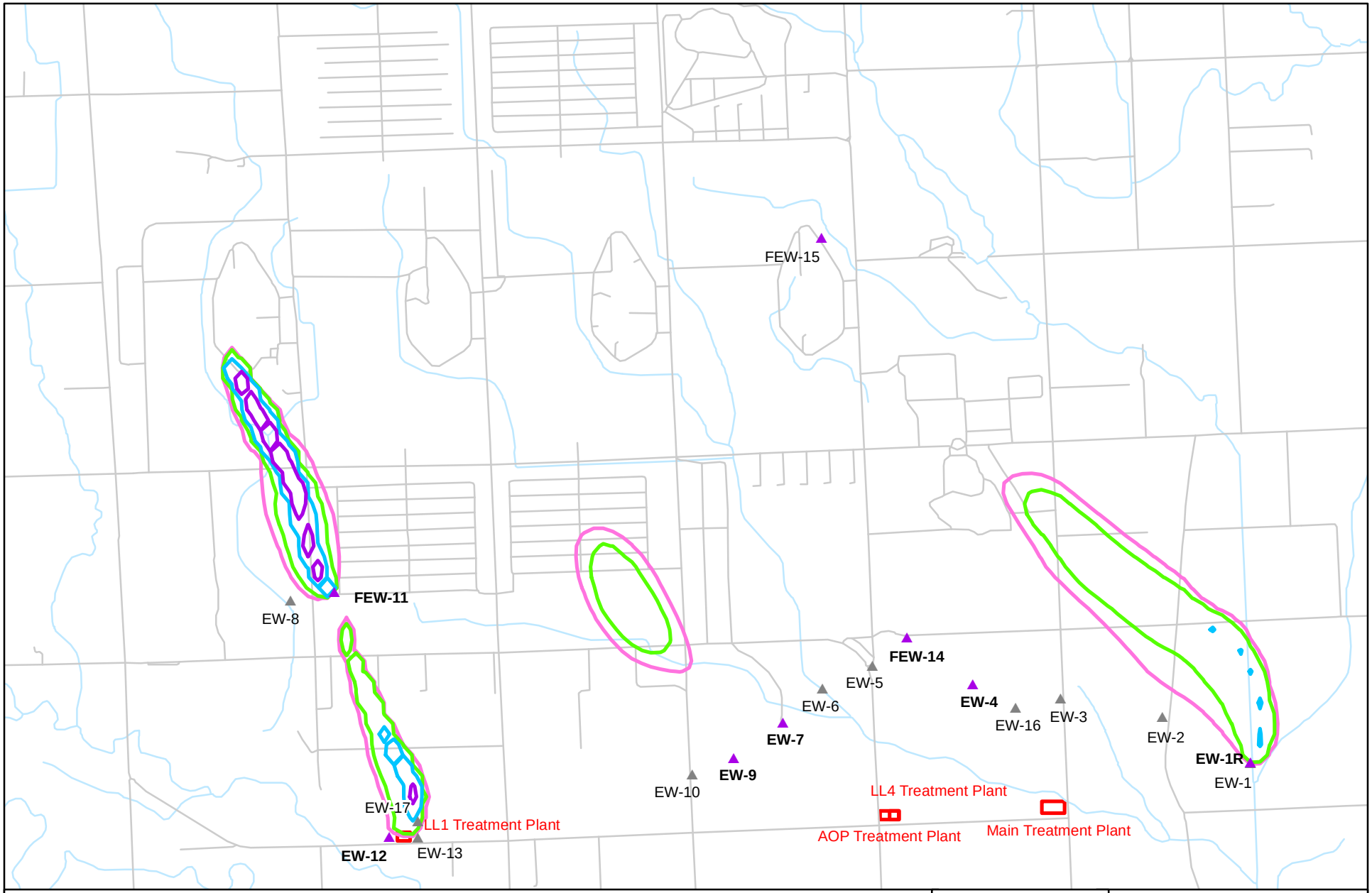

Legend

- Extraction Well
- Extraction Well (Currently Off)
- Treatment Plant

Trichloroethene (TCE) Contours
- 5 ug/L
- 10 ug/L
- 100 ug/L
- 1,000 ug/L
- 10,000 ug/L

N

0 1,500 3,000 6,000 Feet

US Army Corps of Engineers
Kansas City District

Figure 7-13
PREDICTED TCE
LAYER 3
2037

Former NOP

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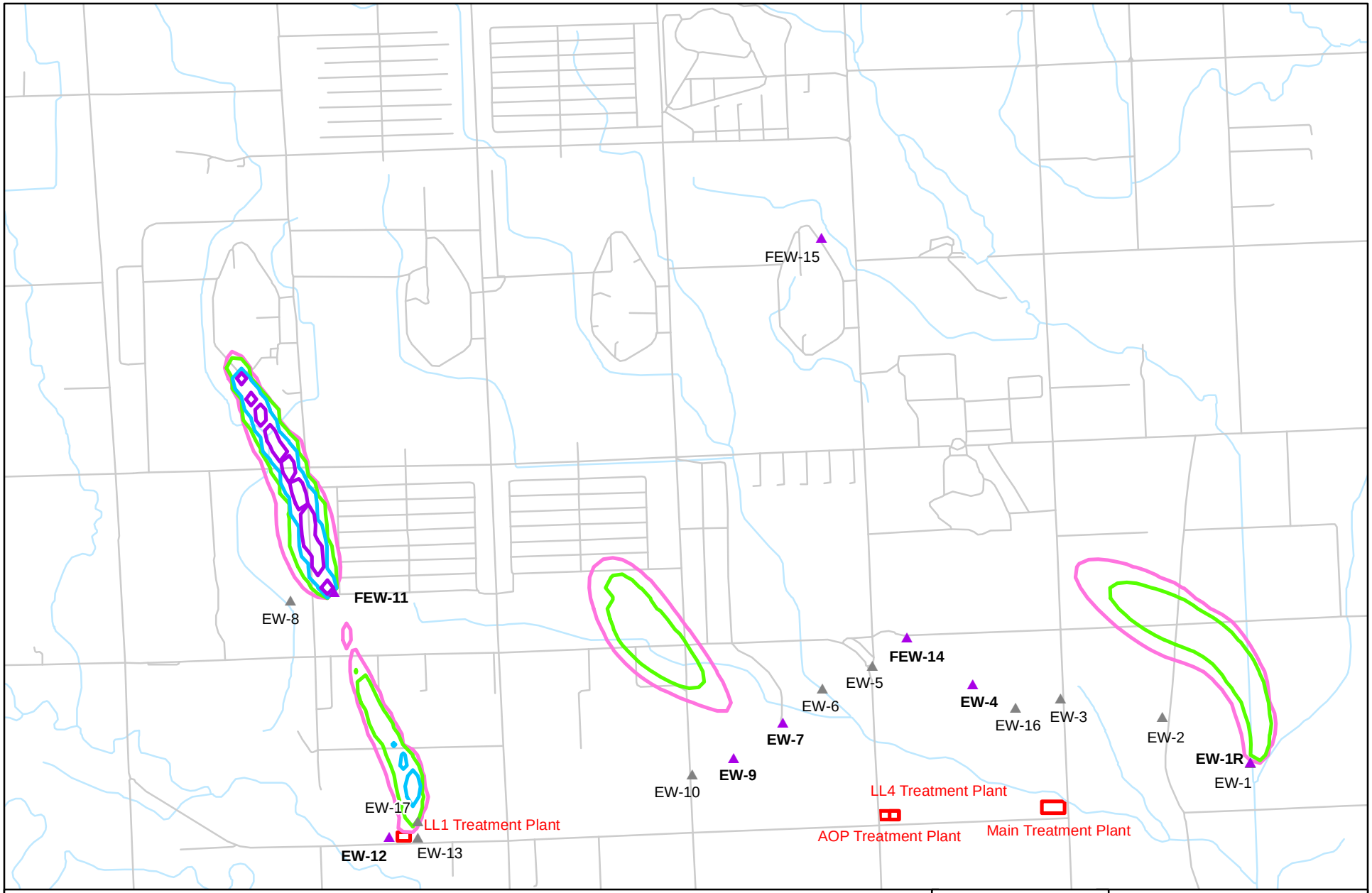

Legend

- Extraction Well
- Extraction Well (Currently Off)
- Treatment Plant

Trichloroethene (TCE) Contours
- 5 ug/L
- 10 ug/L
- 100 ug/L
- 1,000 ug/L
- 10,000 ug/L

N

0 1,500 3,000 6,000 Feet

US Army Corps of Engineers
Kansas City District

Figure 7-14
PREDICTED TCE
LAYER 3
2042

Former NOP

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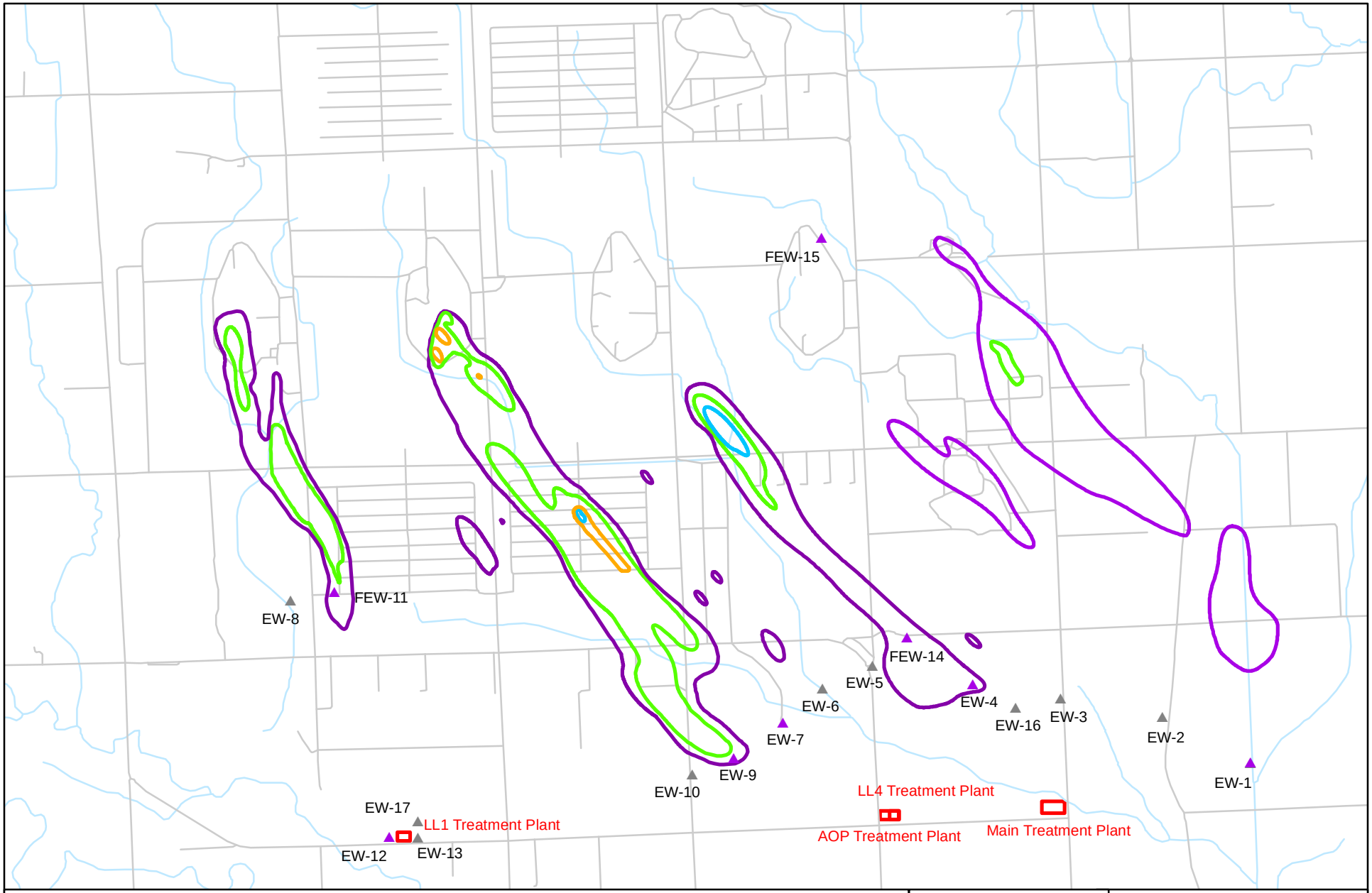

Legend

USACE Extraction Well

Treatment Plant

RDX Contours

2 ug/L

10 ug/L

50 ug/L

100 ug/L

N

0 1,500 3,000 6,000 Feet

US Army Corps of Engineers ®
Kansas City District

Figure 7-15

RDX
INITIAL CONCENTRATIONS
LAYER 2

Former NOP

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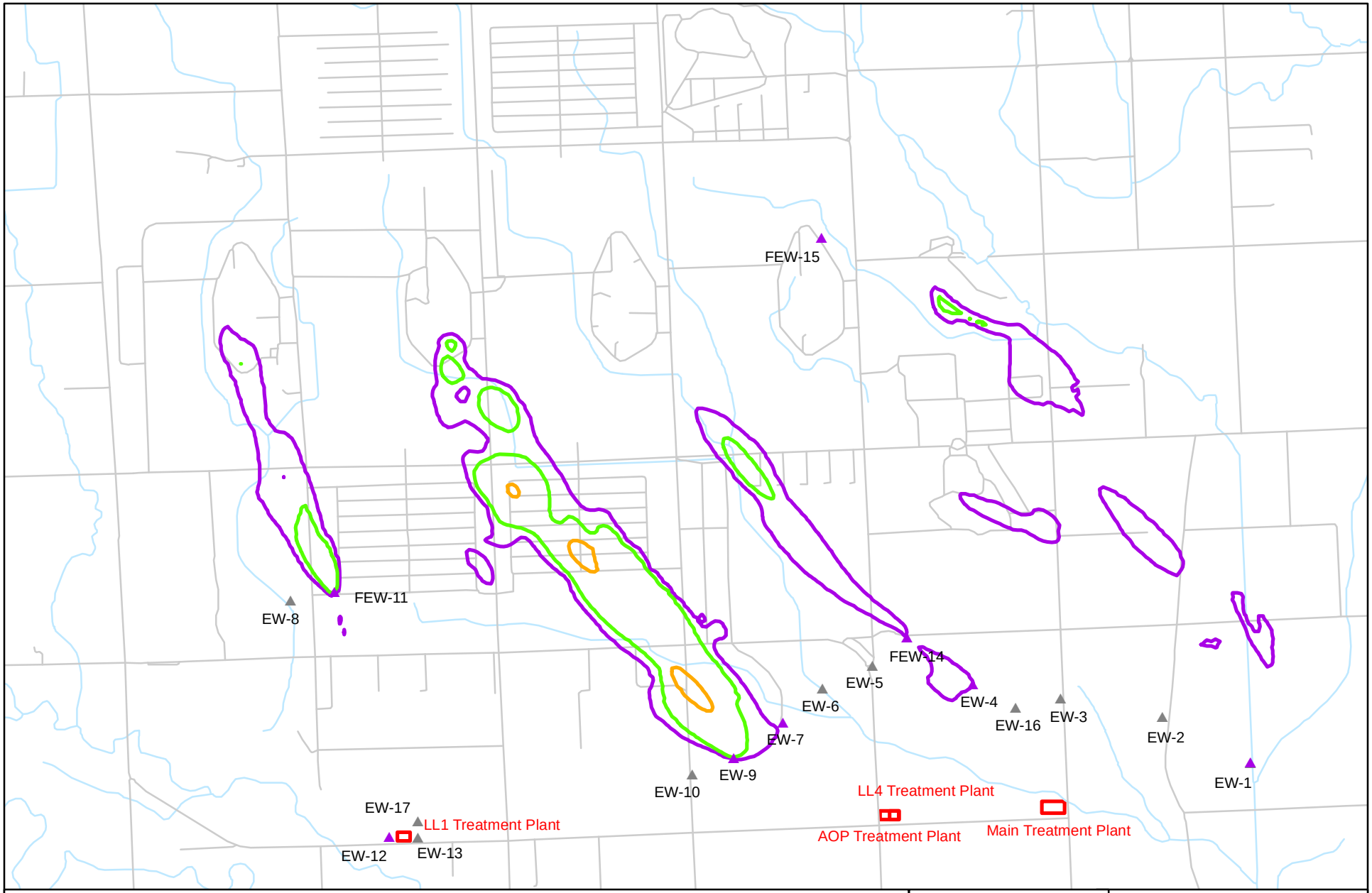

Legend

USACE Extraction Well

Treatment Plant

RDX Contours

- 2 ug/L
- 10 ug/L
- 50 ug/L
- 100 ug/L

N

0 1,500 3,000 6,000 Feet

US Army Corps of Engineers®
Kansas City District

Figure 7-16

PREDICTED RDX
LAYER 2
2017

Former NOP

K:\ENV\ECC\site\51469\Data\GIS\2013\2012 GWM\Fig7-16_RDX_L2_2017.mxd jmf June 12, 2013

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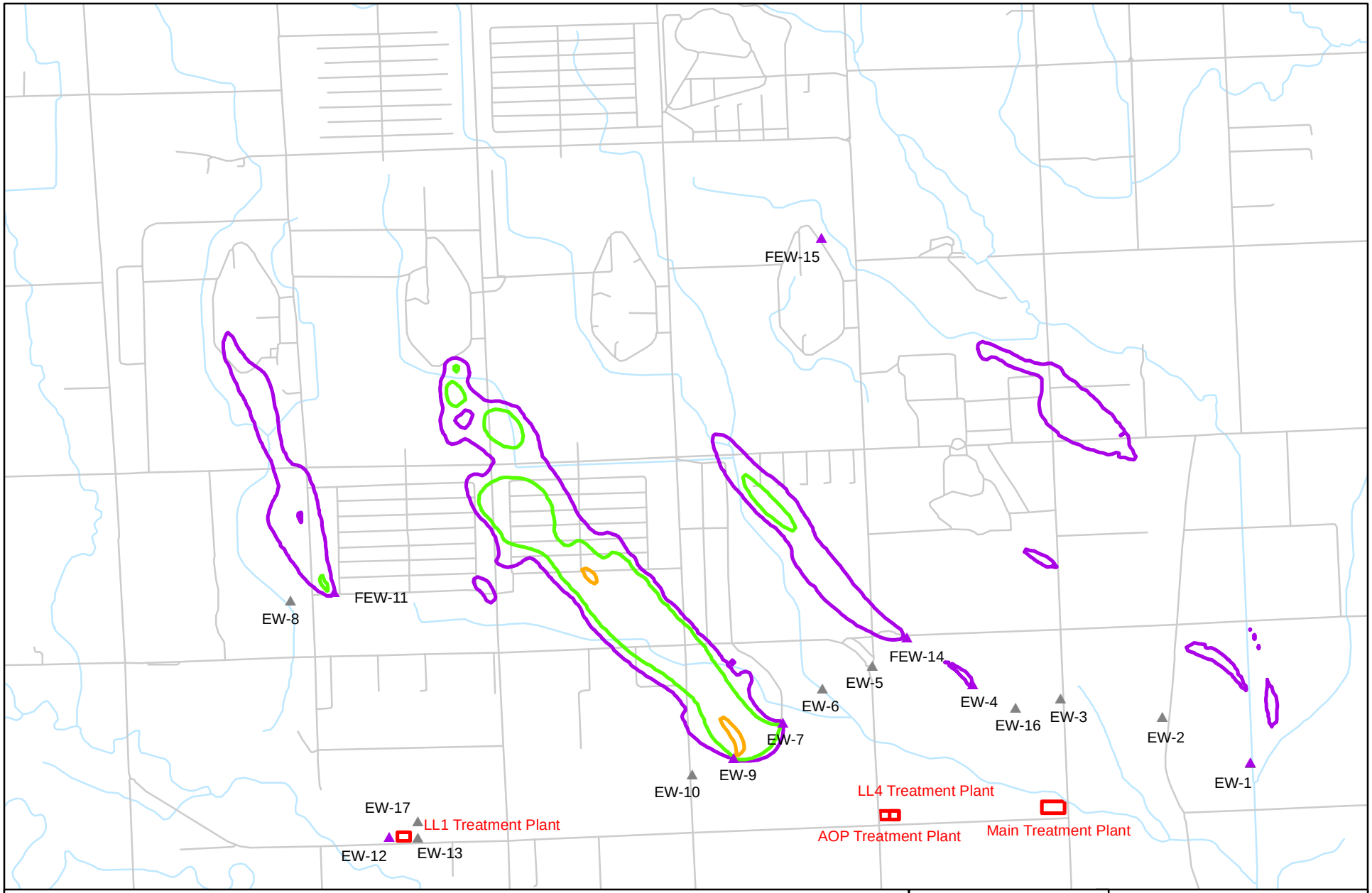

Legend

- USACE Extraction Well
- Treatment Plant

RDX Contours
- 2 ug/L
- 10 ug/L
- 50 ug/L
- 100 ug/L

N

0 1,500 3,000 6,000 Feet

US Army Corps of Engineers®
Kansas City District

Figure 7-17
PREDICTED RDX
LAYER 2
2022

Former NOP

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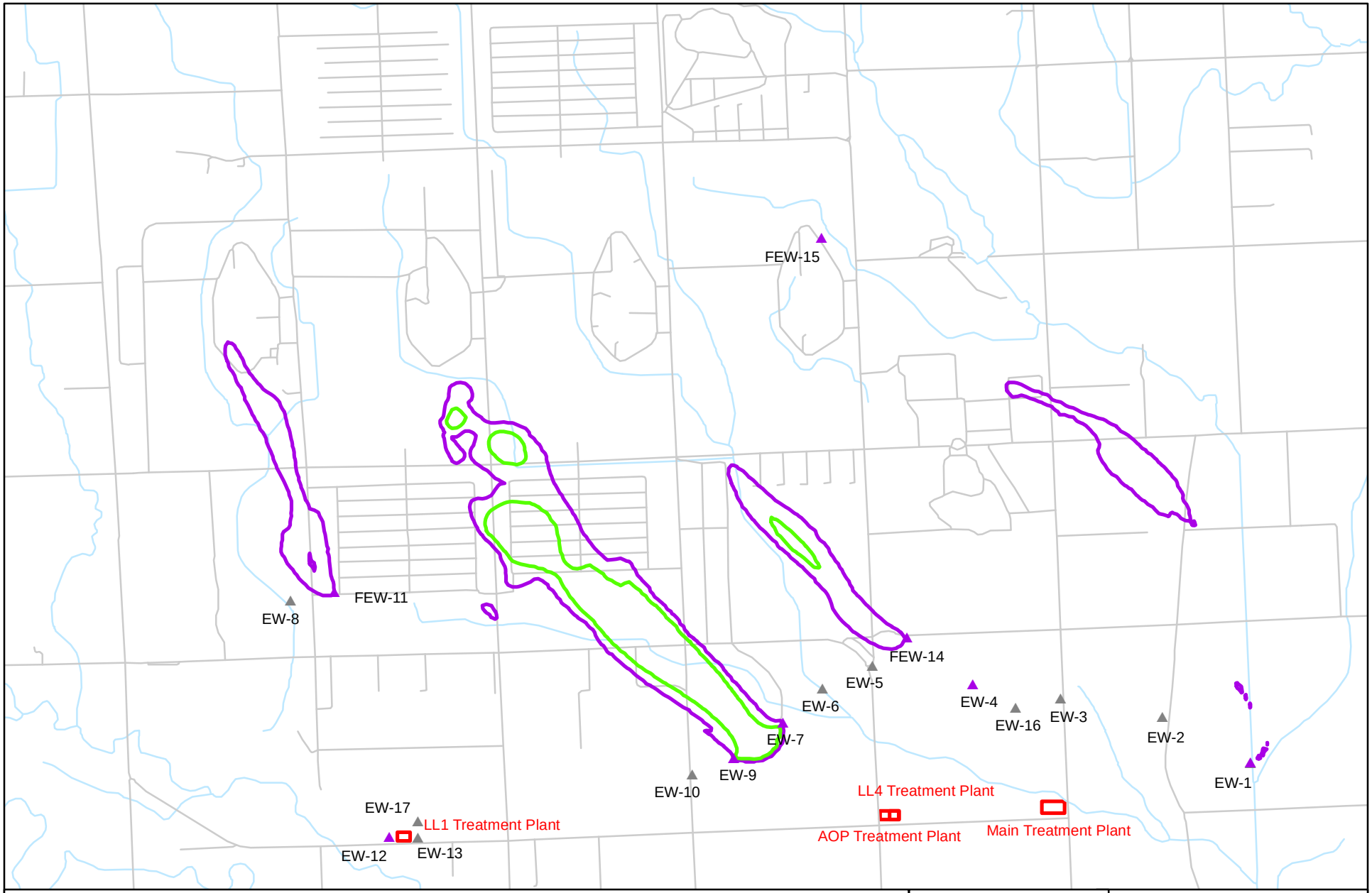

Legend

- USACE Extraction Well
- Treatment Plant

RDX Contours
- 2 ug/L
- 10 ug/L
- 50 ug/L
- 100 ug/L

N

0 1,500 3,000 6,000 Feet

US Army Corps of Engineers
Kansas City District

Figure 7-18

PREDICTED RDX
LAYER 2
2027
Former NOP

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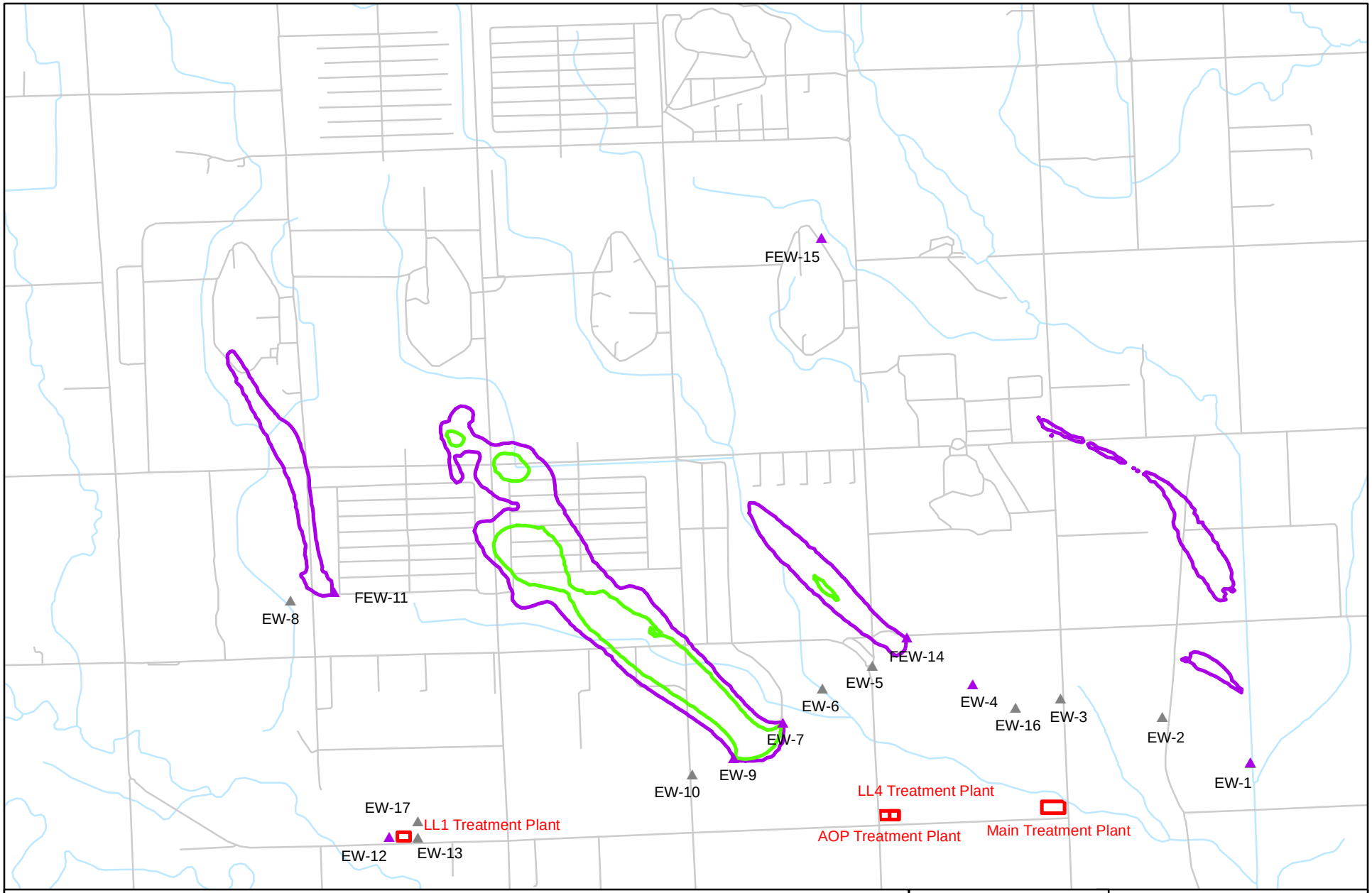

Legend

- USACE Extraction Well
- Treatment Plant

RDX Contours
- 2 ug/L
- 10 ug/L
- 50 ug/L
- 100 ug/L

N

0 1,500 3,000 6,000 Feet

US Army Corps of Engineers
Kansas City District

Figure 7-19

PREDICTED RDX
LAYER 2
2032
Former NOP

K:\ENV\ECC\site\51469\Data\GIS\2013\2012 GWM\Fig7-19_RDX_L2_2032.mxd jmf June 12, 2013

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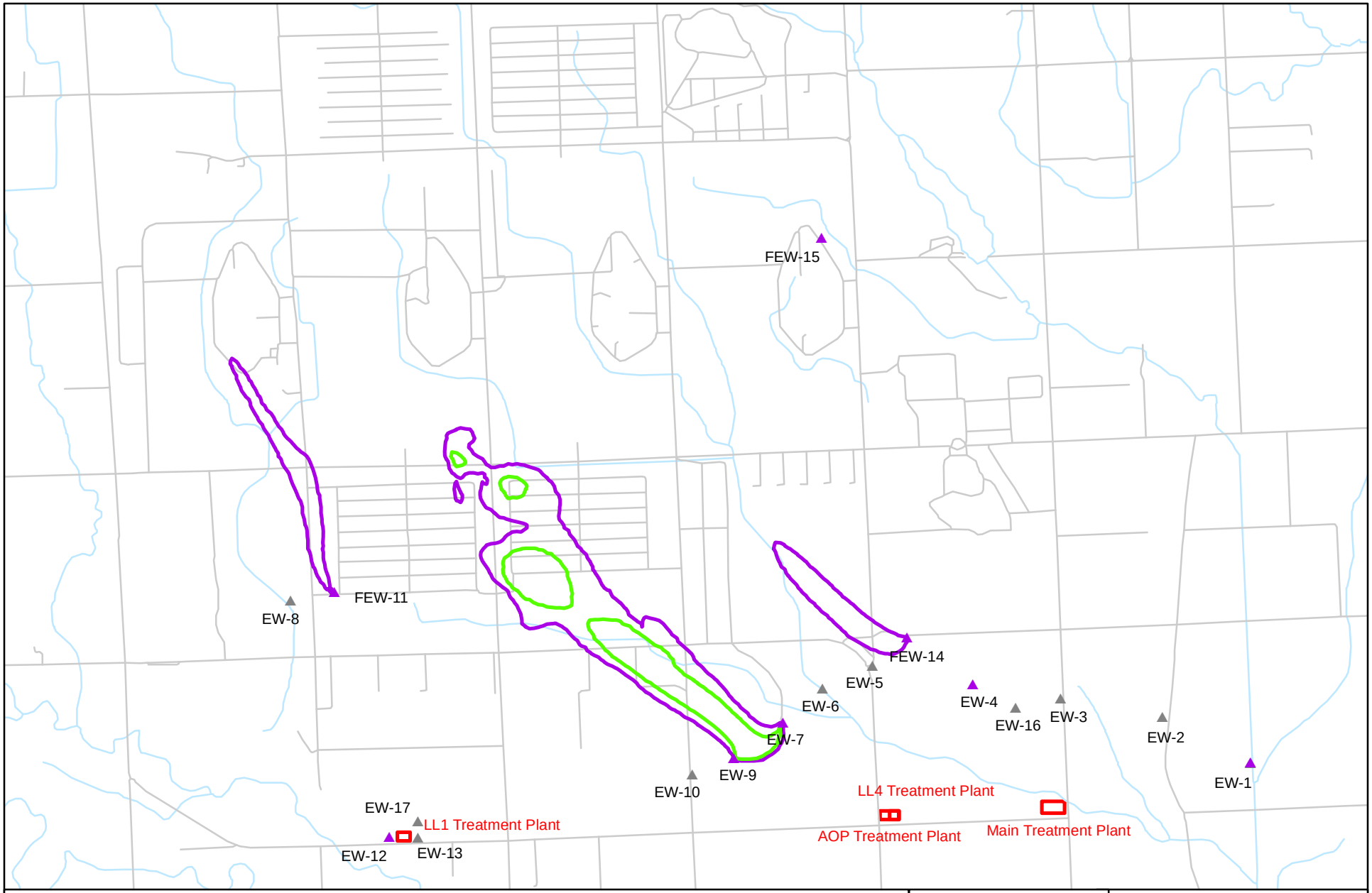

Legend

USACE Extraction Well

Treatment Plant

RDX Contours

- 2 ug/L
- 10 ug/L
- 50 ug/L
- 100 ug/L

N

0 1,500 3,000 6,000 Feet

US Army Corps of Engineers®
Kansas City District

Figure 7-20

PREDICTED RDX
LAYER 2
2037
Former NOP

K:\ENV\ECC\site\51469\Data\GIS\2013\2012 GWM\Fig7-20_RDX_L2_2037.mxd jmf June 12, 2013

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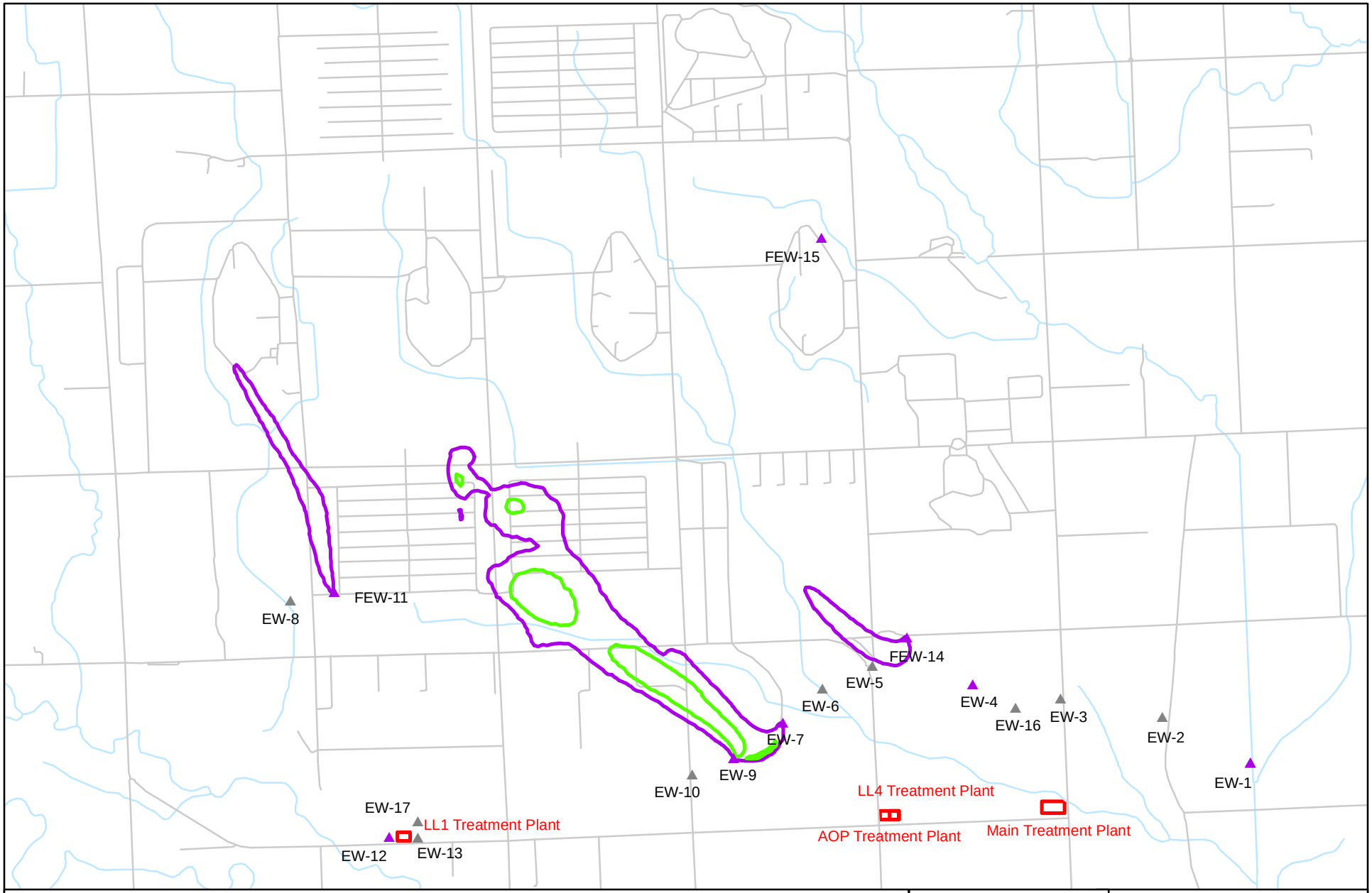

Legend

- USACE Extraction Well
- Treatment Plant

RDX Contours
- 2 ug/L
- 10 ug/L
- 50 ug/L
- 100 ug/L

N

0 1,500 3,000 6,000 Feet

US Army Corps of Engineers
Kansas City District

Figure 7-21

PREDICTED RDX
LAYER 2
2042
Former NOP

K:\ENV\ECC\site\51469\Data\GIS\2013\2012 GWM\Fig7-15_RDX_L2_2022.mxd jmf June 10, 2013

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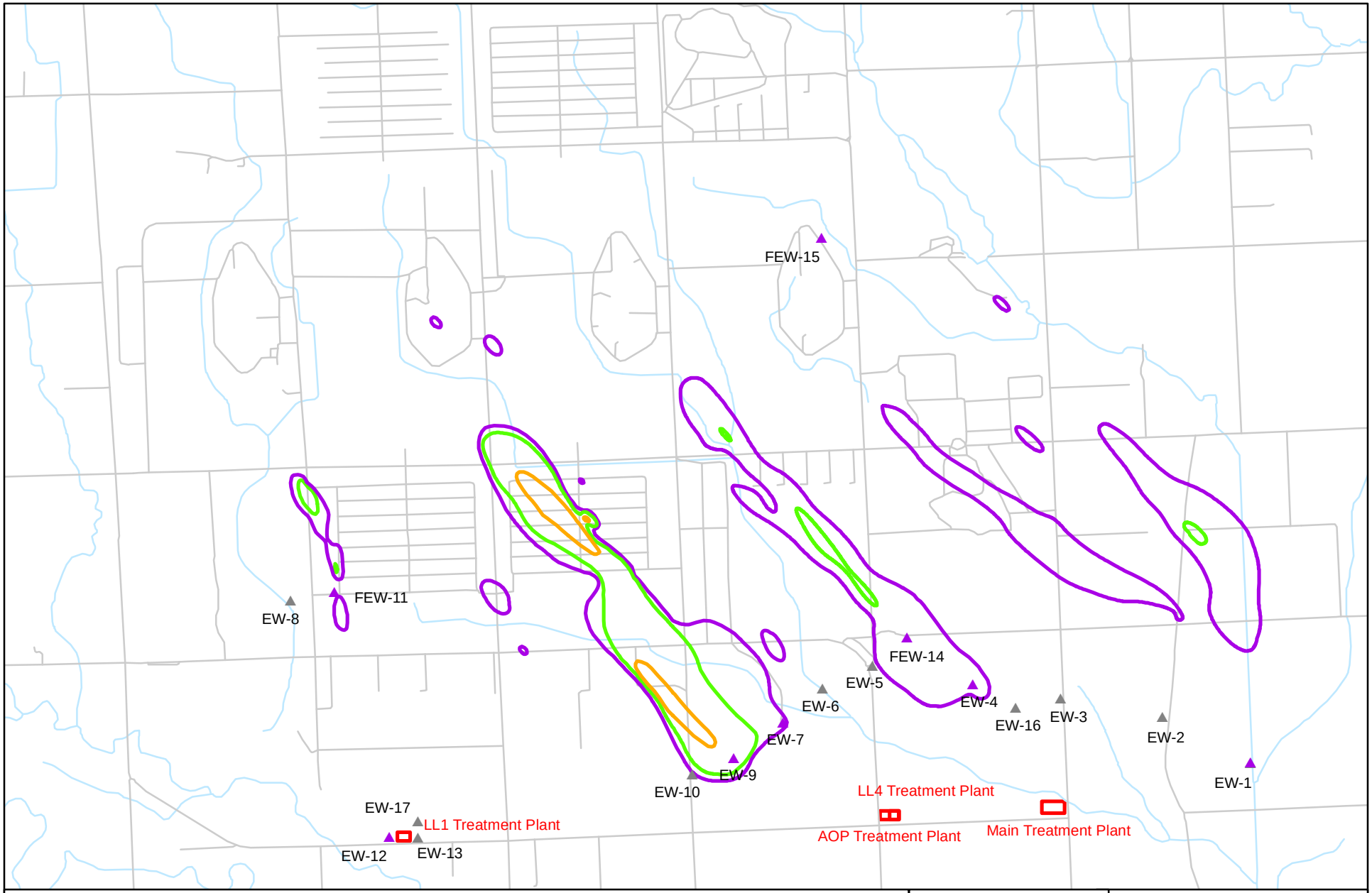

Legend

USACE Extraction Well
Treatment Plant

RDX Contours
2 ug/L
10 ug/L
50 ug/L
100 ug/L

N

0 1,500 3,000 6,000 Feet

US Army Corps of Engineers
Kansas City District

Figure 7-22
RDX
INITIAL CONCENTRATIONS
LAYER 3

Former NOP

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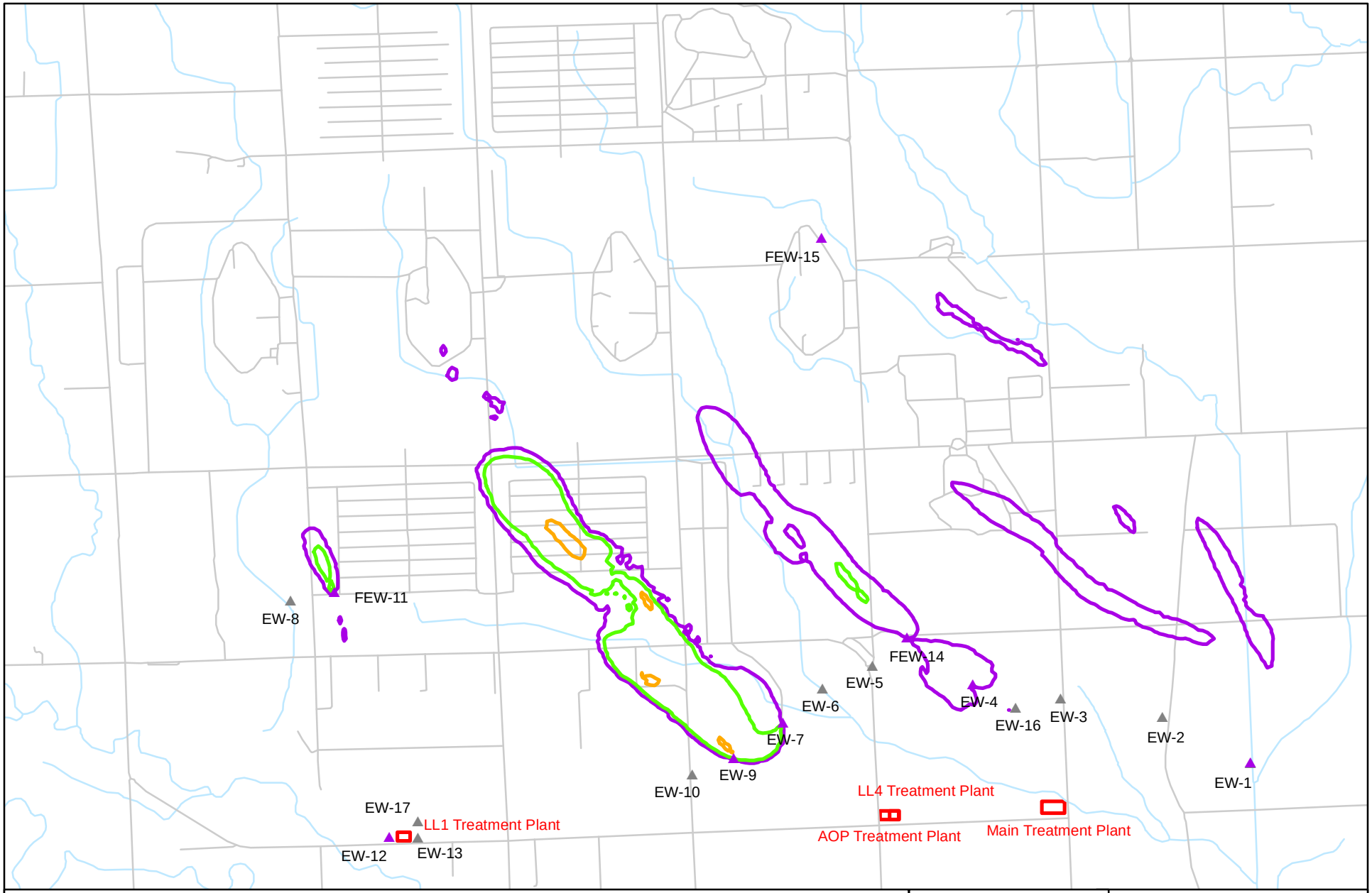

Legend

USACE Extraction Well
Treatment Plant

RDX Contours
2 ug/L
10 ug/L
50 ug/L
100 ug/L

N

0 1,500 3,000 6,000 Feet

US Army Corps of Engineers
Kansas City District

Figure 7-23

PREDICTED RDX
LAYER 3
2017
Former NOP

K:\ENV\ECC\site\51469\Data\GIS\2013\2012 GWM\Fig7-15_RDX_L2_2022.mxd jmf June 10, 2013

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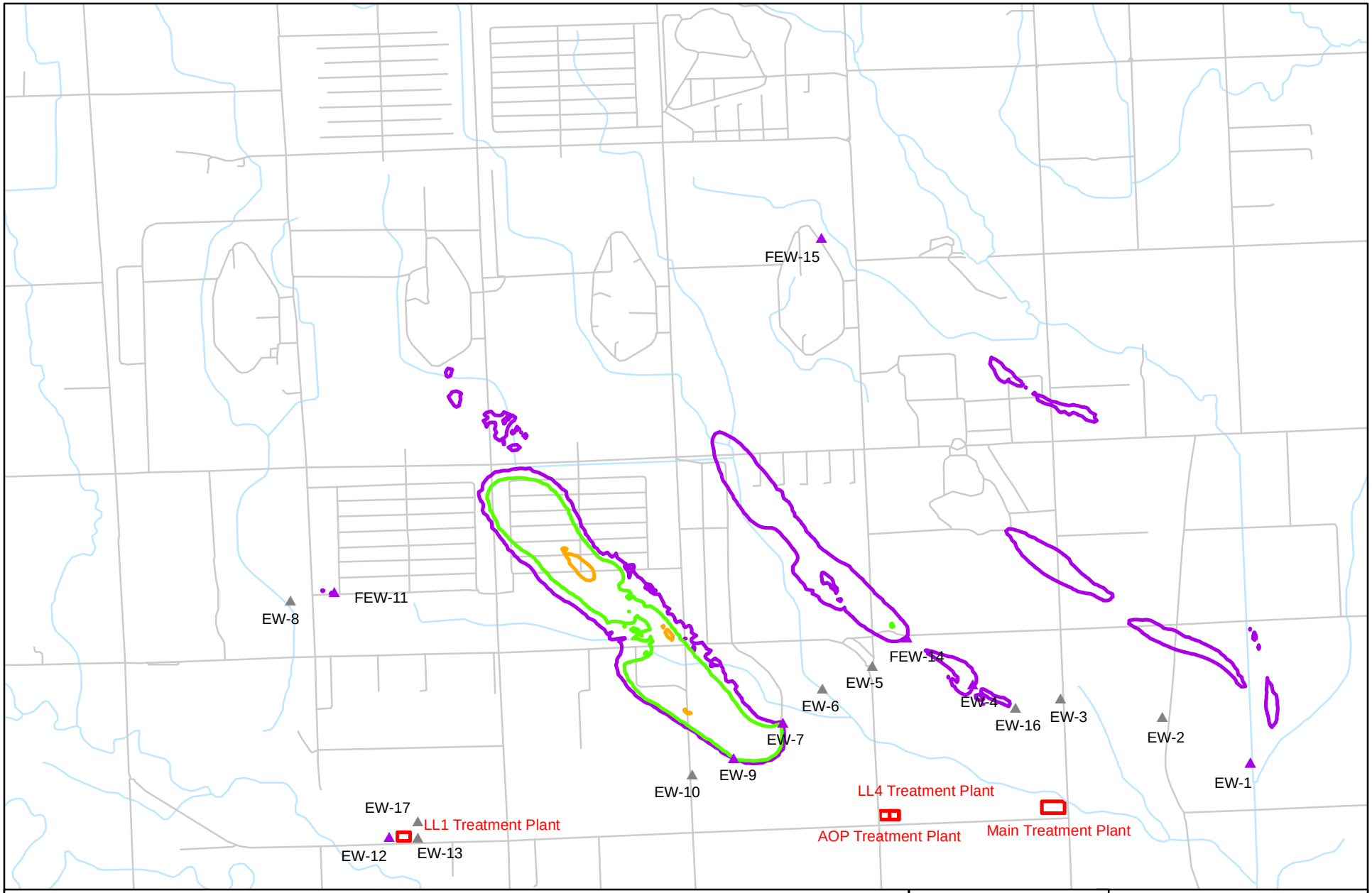

Legend

- USACE Extraction Well
- Treatment Plant

RDX Contours
- 2 ug/L
- 10 ug/L
- 50 ug/L
- 100 ug/L

N

0 1,500 3,000 6,000 Feet

US Army Corps of Engineers
Kansas City District

Figure 7-24

PREDICTED RDX
LAYER 3
2022
Former NOP

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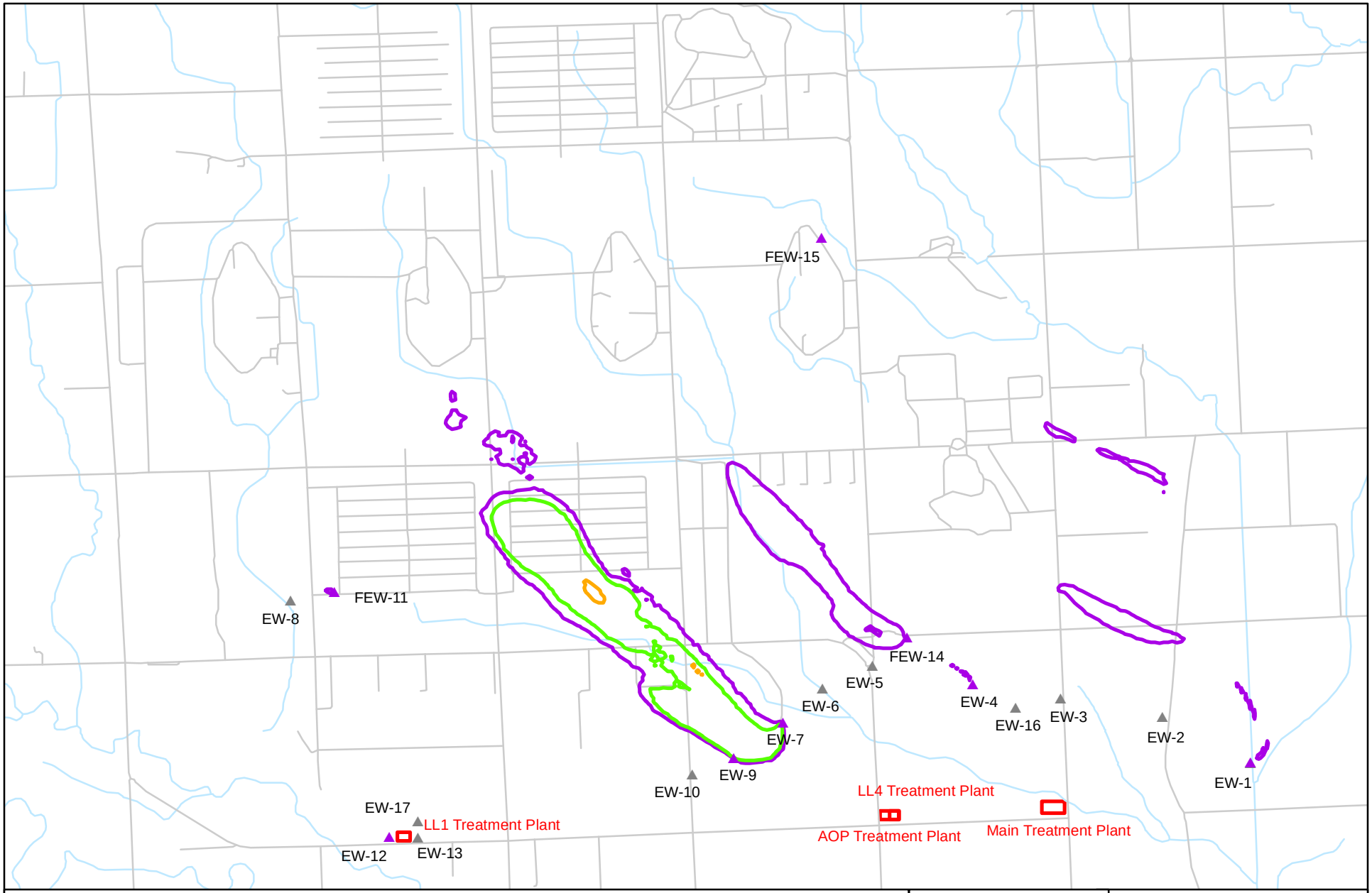

Legend

- USACE Extraction Well
- Treatment Plant

RDX Contours
- 2 ug/L
- 10 ug/L
- 50 ug/L
- 100 ug/L

N

0 1,500 3,000 6,000 Feet

US Army Corps of Engineers
Kansas City District

Figure 7-25

PREDICTED RDX
LAYER 3
2027
Former NOP

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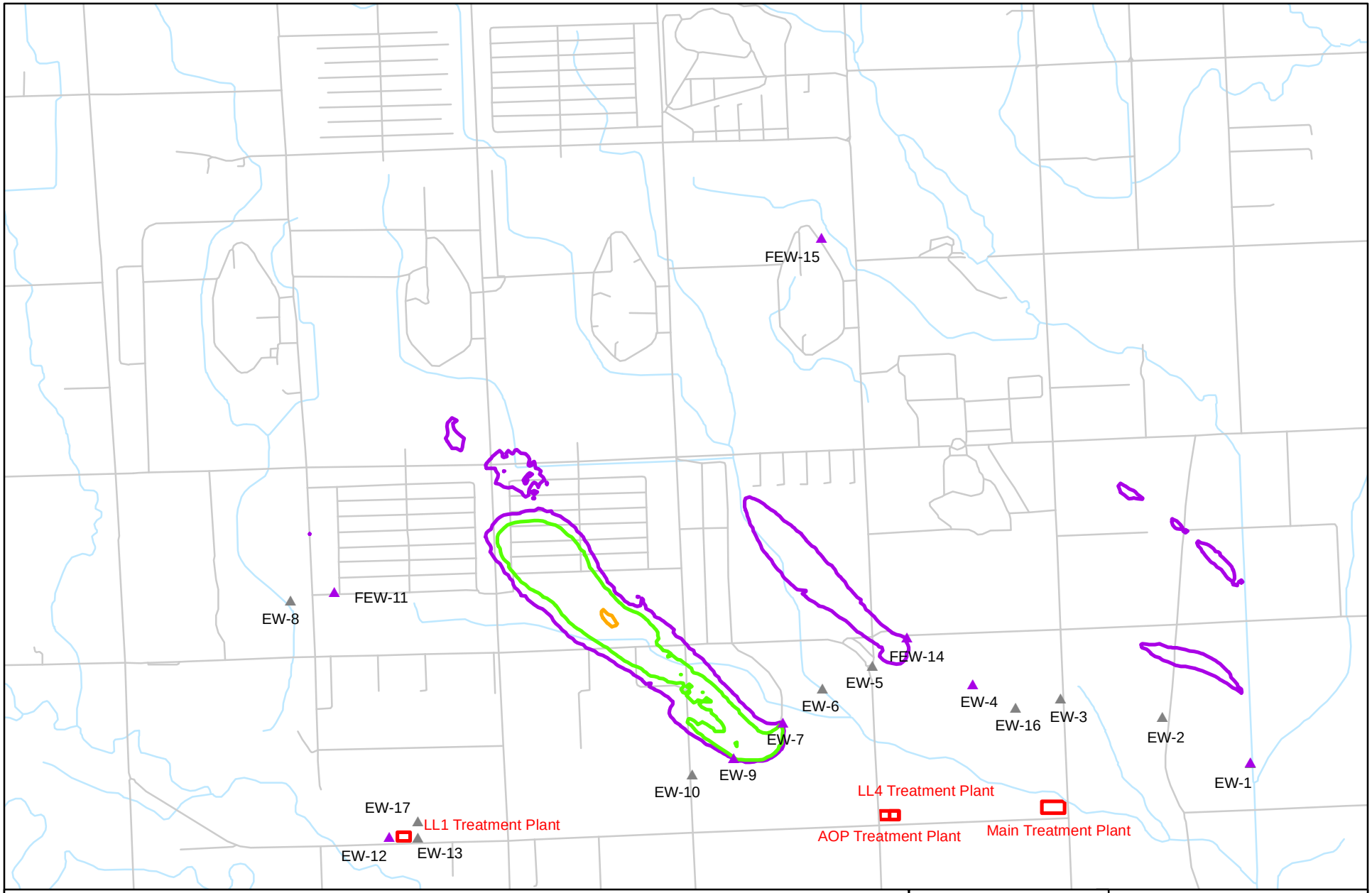

Legend

- USACE Extraction Well
- Treatment Plant

RDX Contours
- 2 ug/L
- 10 ug/L
- 50 ug/L
- 100 ug/L

N

0 1,500 3,000 6,000 Feet

US Army Corps of Engineers
Kansas City District

Figure 7-26

PREDICTED RDX
LAYER 3
2032
Former NOP

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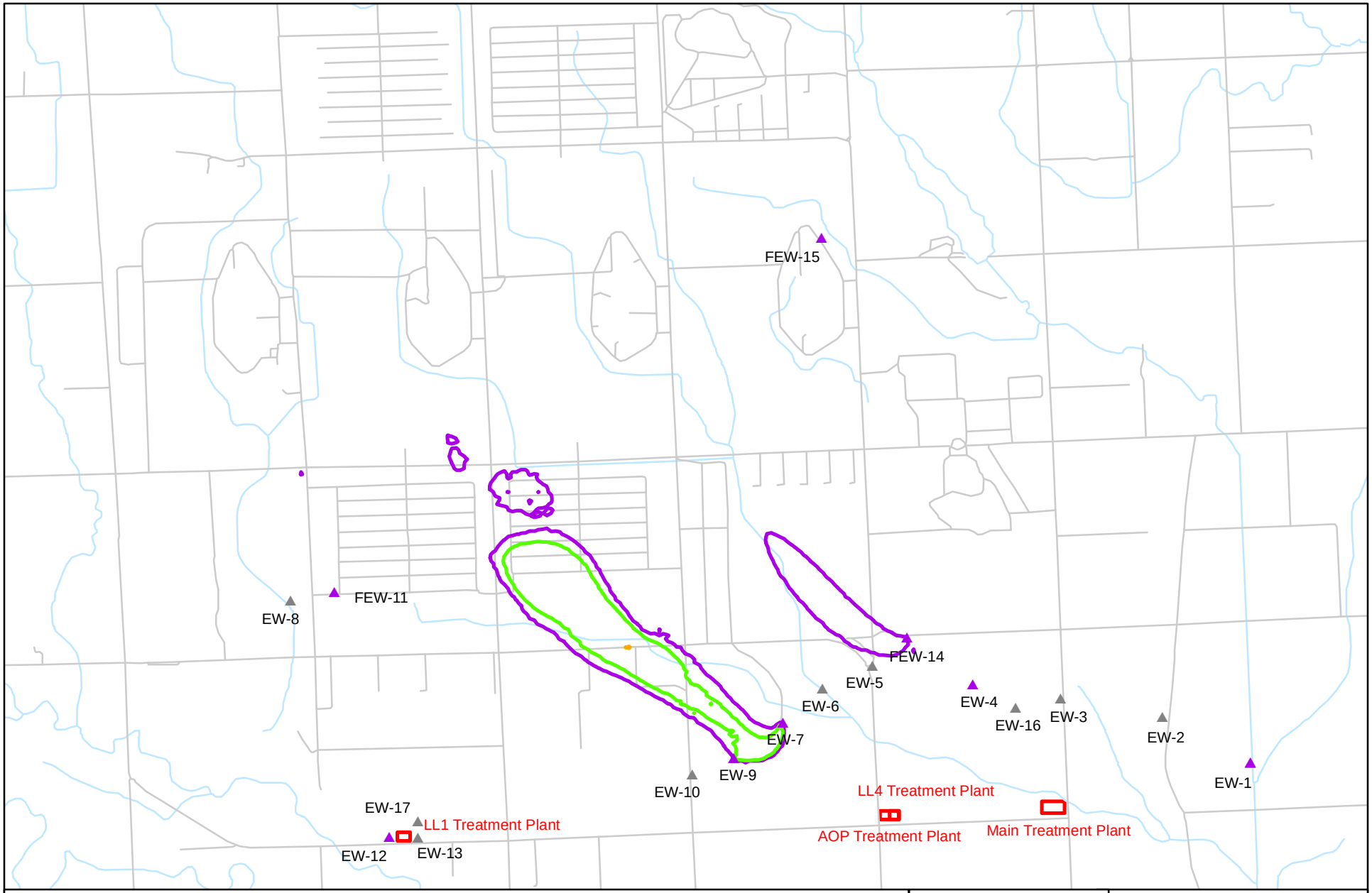

Legend

- USACE Extraction Well
- Treatment Plant

RDX Contours
- 2 ug/L
- 10 ug/L
- 50 ug/L
- 100 ug/L

N

0 1,500 3,000 6,000 Feet

US Army Corps of Engineers
Kansas City District

Figure 7-27

PREDICTED RDX
LAYER 3
2037
Former NOP

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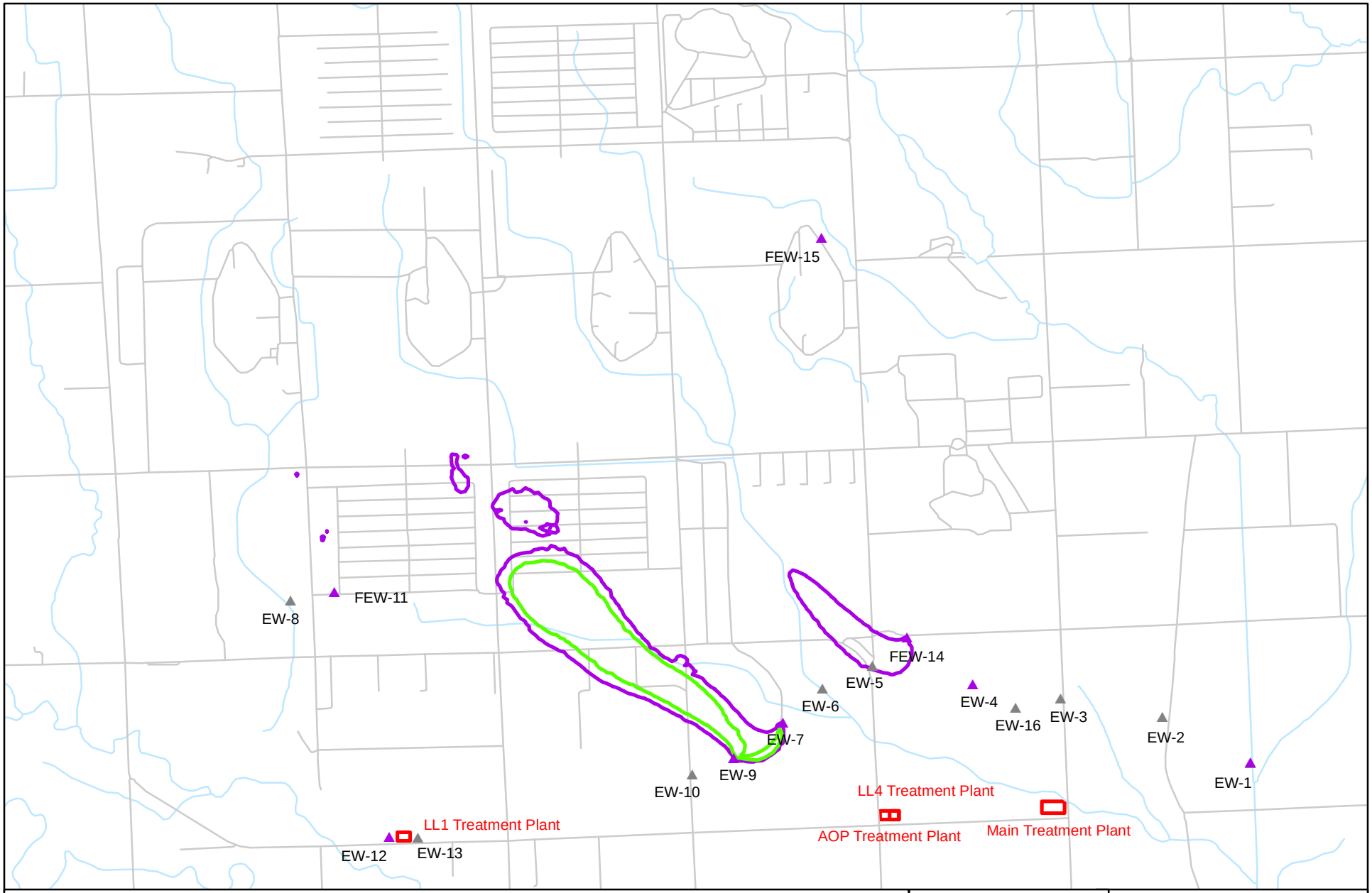

Legend

- USACE Extraction Well
- Treatment Plant

RDX Contours
- 2 ug/L
- 10 ug/L
- 50 ug/L

N

0 1,500 3,000 6,000 Feet

US Army Corps of Engineers
Kansas City District

Figure 7-28

PREDICTED RDX
LAYER 3
2042
Former NOP

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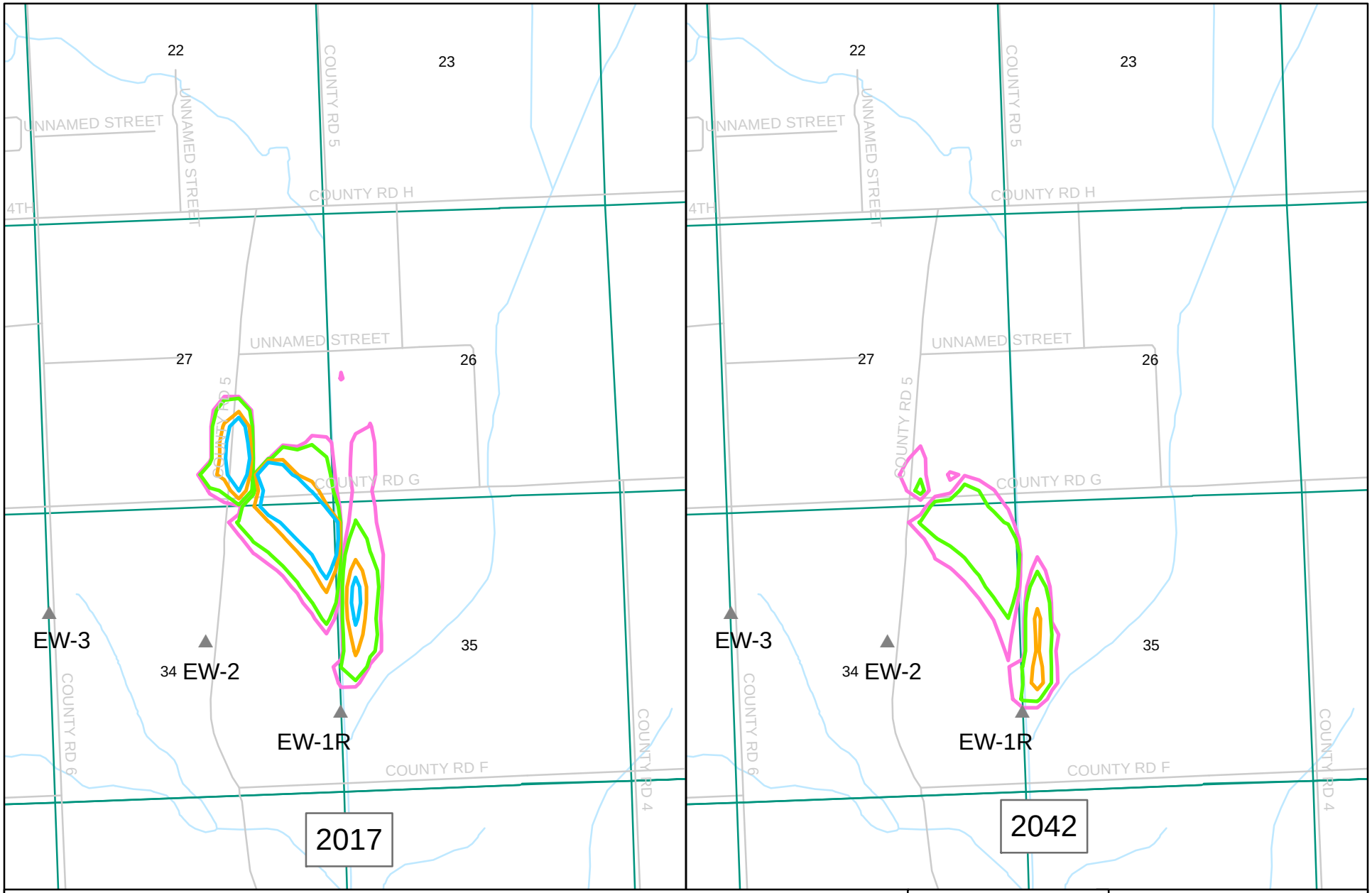

Legend

USACE Extraction Well

Section Lines

Trichloroethene Contours

- 5 ug/L
- 10 ug/L
- 50 ug/L
- 100 ug/L
- 1,000 ug/L
- 10,000 ug/L

N

0 1,500 3,000 Feet

US Army Corps of Engineers
Kansas City District

Figure 7-29

PREDICTED TCE
LAYER 1
2017 and 2042

Former NOP

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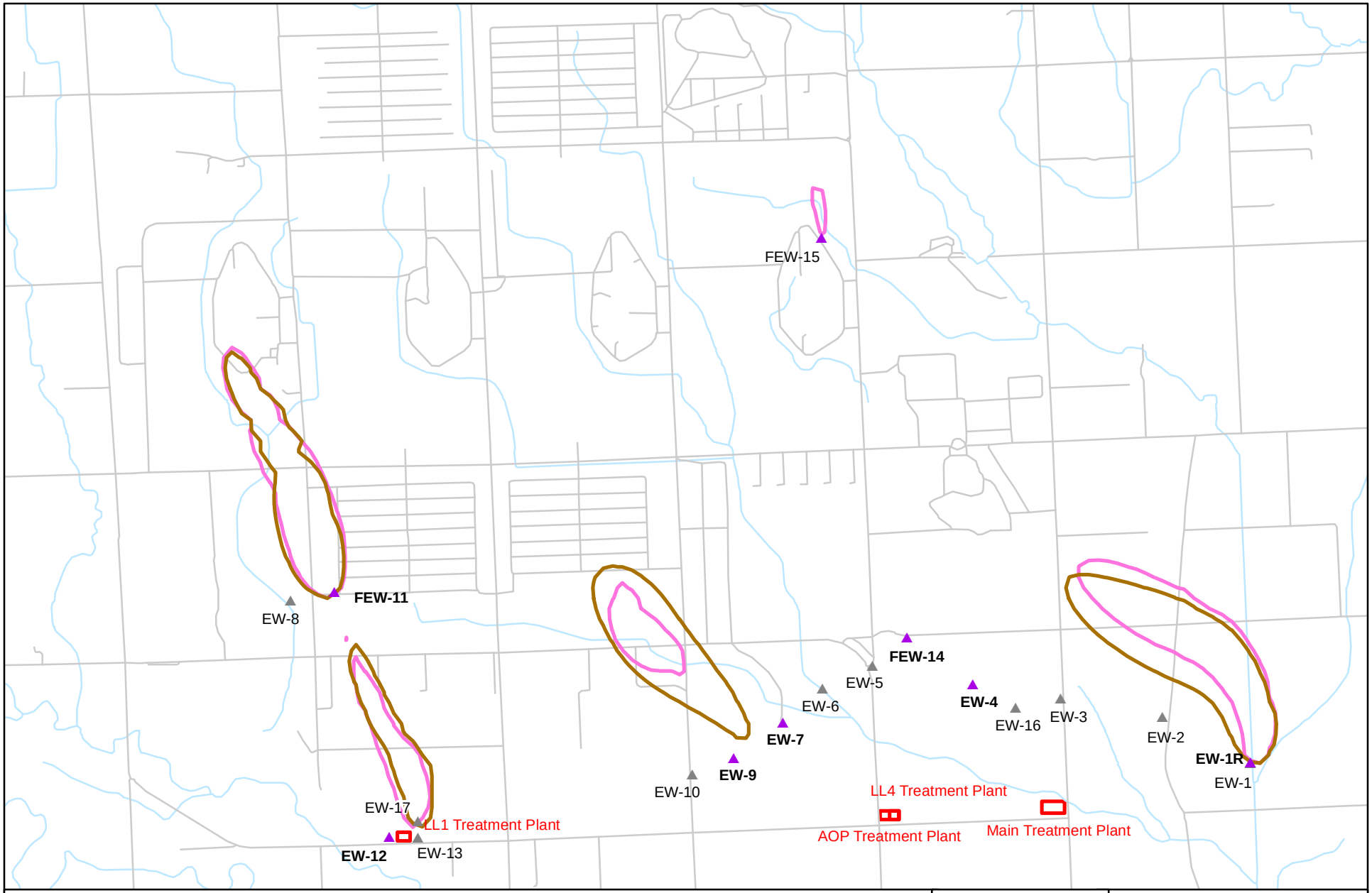

Legend

- Extraction Well
- Extraction Well (Currently Off)
- Treatment Plant
- Predictive Simulation 5 ug/L
- Drought Simulation 5 ug/L

N

0 1,500 3,000 6,000 Feet

US Army Corps of Engineers
Kansas City District

Figure 7-30

PREDICTED TCE
DROUGHT SCENARIO
LAYER 2
2042
Former NOP

K:\ENV\ECC\site\51469\Data\GIS\2013\2012 GWM\Fig7-30_TCE_2042_Drought.mxd jmf June 13, 2013

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Appendix A
Aquifer Test Results Test Results

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Table A-1
Summary of Slug Test Results
2012 Groundwater Model Report
Former NOP, Mead, Nebraska

Load Line	Transect or Well	Formation	K (ft/day)	Ss	Solution Method
LL1	MW-101A	Wahoo Valley	6	1.69E-06	KGS
	MW-101B	Wahoo Valley	50	1.69E-06	KGS
	MW-119A	Todd Valley	51	4.94E-06	KGS
	MW-120B	Todd Valley	33	3.90E-05	KGS
	MW-121B	Todd Valley	49	1.47E-06	KGS
	MW-122A	Todd Valley	59	NA	Springer-Gelhar
	MW-122B	Todd Valley	268	NA	Springer-Gelhar
	MW-123A	Todd Valley	157	NA	Springer-Gelhar
	MW-123B	Todd Valley	157	NA	Springer-Gelhar
	MW-124A	Todd Valley	195	NA	Springer-Gelhar
	MW-124B	Todd Valley	71	1.00E-06	KGS
	MW-124D	Omadi	46	2.88E-09	KGS
	MW-125A	Todd Valley	232	NA	Springer-Gelhar
	MW-125B	Todd Valley	91	1.00E-06	KGS
	MW-125D	Omadi	8	7.03E-06	KGS
	MW-126A	Todd Valley	6	7.25E-06	KGS
	MW-126B	Todd Valley	20	3.69E-04	KGS
	MW-127A	Todd Valley	93	NA	Springer-Gelhar
	MW-127B	Todd Valley	55	2.04E-05	KGS
	MW-141A	Todd Valley	48	1.00E-06	KGS
	MW-141B	Todd Valley	43	2.03E-06	KGS
	MW-141E	Todd Valley	44	4.96E-06	KGS
	MW-142A	Todd Valley	55	1.00E-06	KGS
	MW-21A	Todd Valley	132	NA	Springer-Gelhar
	MW-21D*	Omadi	33	2.00E-07	KGS
	MW-61D*	Omadi	2	3.00E-05	KGS
	MW-79A	Wahoo Valley	35	ye	KGS
	MW-79B	Wahoo Valley	91	1.00E-06	KGS
	MW-80A	Wahoo Valley	94	NA	Springer-Gelhar
	MW-80B	Wahoo Valley	57	1.69E-06	KGS
	MW-89A	Todd Valley	10	1.00E-06	KGS
	MW-89B	Todd Valley	5	7.82E-06	KGS
	MW-89E	Todd Valley	144	NA	Springer-Gelhar
	MW-90A	Todd Valley	15	1.64E-05	KGS
	MW-90B	Todd Valley	17	1.09E-05	KGS
	MW-90D	Omadi	2	8.26E-05	KGS
	MW-91A	Todd Valley	102	NA	Springer-Gelhar
	MW-91B	Todd Valley	11	4.88E-06	KGS
	MW-91D*	Omadi	1.0	4.00E-07	KGS
	MW-92A	Wahoo Valley	83	NA	Springer-Gelhar
	MW-92B	Wahoo Valley	43	1.93E-06	KGS
	MW-93A*	Todd Valley	1	1.00E-04	KGS
	MW-93B	Todd Valley	77	NA	Springer-Gelhar
	T74-001	Wahoo Valley	8	1.00E-06	KGS
	T74-001	Wahoo Valley	86	NA	Springer-Gelhar
	T74-002	Wahoo Valley	8	9.83E-05	KGS

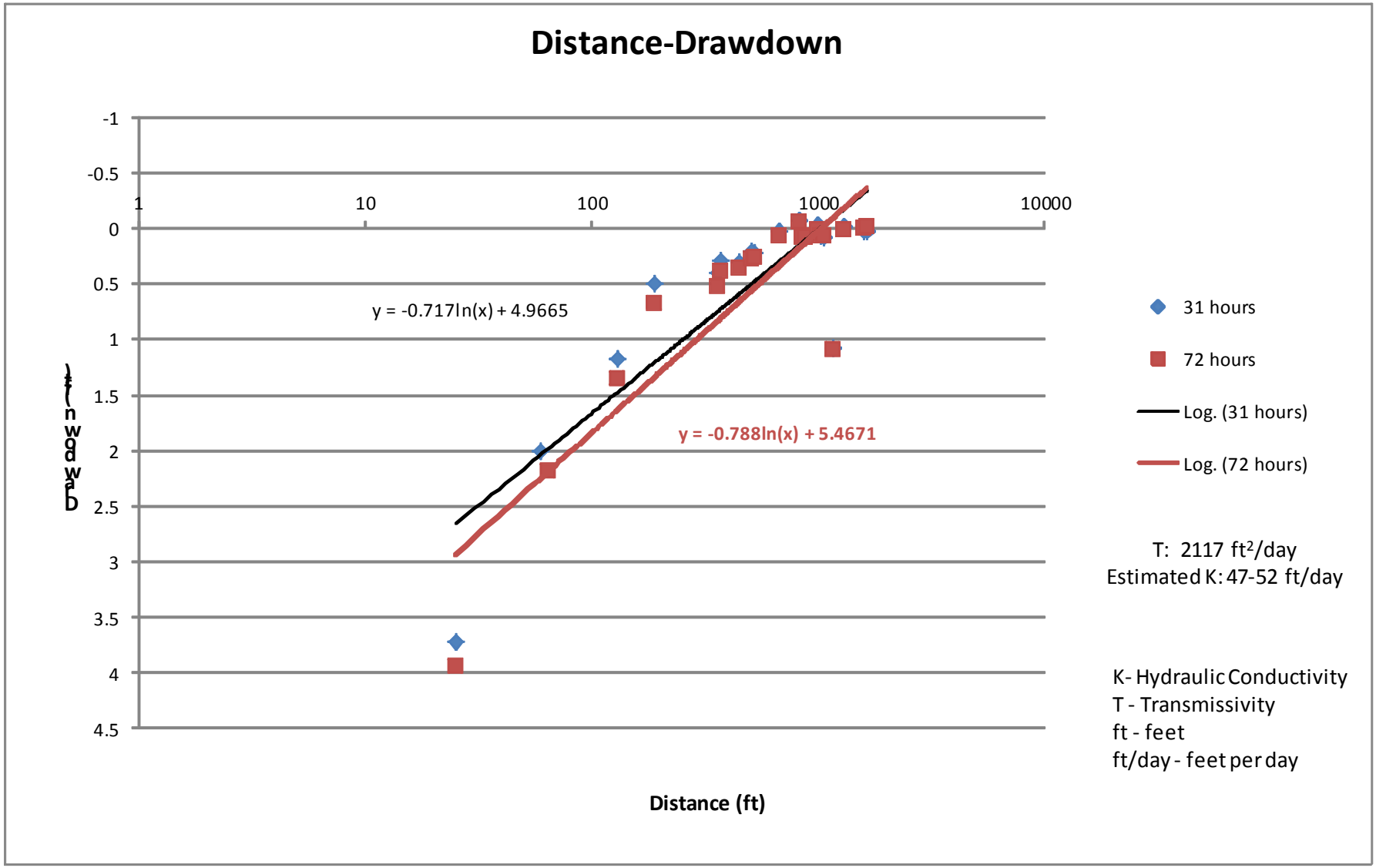
Table A-1
Summary of Slug Test Results
2012 Groundwater Model Report
Former NOP, Mead, Nebraska

Load Line	Transect or Well	Formation	K (ft/day)	Ss	Solution Method
LL1	T74-002	Wahoo Valley	13	1.00E-06	KGS
	T74-003	Wahoo Valley	37	1.00E-06	KGS
	T74-003	Wahoo Valley	417	NA	Springer-Gelhar
	T74-004	Wahoo Valley	1	5.33E-06	KGS
	T74-004	Wahoo Valley	9	8.58E-05	KGS
	T74-005	Wahoo Valley	2	1.60E-02	KGS
	T74-005	Wahoo Valley	98	NA	Springer-Gelhar
	T74-006	Wahoo/Todd Valley	2	1.56E-02	KGS
	T74-006	Wahoo/Todd Valley	145	NA	Springer-Gelhar
	T74-007	Todd Valley	10	3.16E-05	KGS
	T74-007	Todd Valley	15	7.42E-05	KGS
	T74-008	Todd Valley	12	1.70E-05	KGS
	T74-008	Todd Valley	104	NA	Springer-Gelhar
LL2	MW-28D*	Omadi	56	5.00E-07	KGS
	MW-32D*	Omadi	20	5.00E-05	KGS
	MW-82D*	Omadi	81	1.00E-06	KGS
	MW-144A	Todd Valley	52	1.47E-06	KGS
	MW-144E	Todd Valley	62	1.00E-06	KGS
	MW-145A	Todd Valley	21	3.82E-05	KGS
	MW-145E	Todd Valley	18	7.12E-06	KGS
	MW-146A	Todd Valley	57	1.00E-06	KGS
	MW-146B	Todd Valley	17	2.58E-04	KGS
	MW-147B	Todd Valley	33	1.42E-05	KGS
	MW-147D	Omadi	7	1.87E-06	KGS
LL3	MW-86A	Todd Valley	73	7.98E-08	KGS
	MW-86D	Omadi	81		
	MW-99A	Todd Valley	349	NA	Springer-Gelhar
	MW-99D*	Omadi	26	8.00E-06	KGS
	MW-100D*	Omadi	27	4.00E-03	KGS
	MW-143B	Todd Valley	45	3.52E-05	KGS
	MW-148B	Todd Valley	43	1.92E-05	KGS
	MW-149A	Todd Valley	90	1.16E-05	KGS
	MW-150A	Todd Valley	55	1.95E-05	KGS
	MW-150B	Todd Valley	43	2.17E-06	KGS
LL4/AMA	MW-09A	Todd Valley/Omadi	27	NA	Springer-Gelhar
	MW-09D*	Omadi	43	7.00E-05	KGS
	MW-18A*	Omadi	1	1.00E-05	KGS
	MW-42A	Todd Valley	238	NA	Springer-Gelhar
	MW-42D	Omadi	51	1.35E-05	KGS
	MW-44A	Todd Valley	130	NA	Springer-Gelhar
	MW-44D*	Omadi	21	2.00E-05	KGS
	MW-46D*	Omadi	40	9.00E-07	KGS
	MW-102D*	Omadi	7	2.00E+00	KGS
	MW-104A	Platte Valley	328	NA	Springer-Gelhar
	MW-104B	Platte Valley	93	NA	Springer-Gelhar
	MW-104D	Omadi	31	1.00E-06	KGS
	MW-133A	Todd Valley	34	1.00E-06	KGS

Table A-1
Summary of Slug Test Results
2012 Groundwater Model Report
Former NOP, Mead, Nebraska

Load Line	Transect or Well	Formation	K (ft/day)	Ss	Solution Method
LL4/AMA	MW-134A	Todd Valley	133	NA	Springer-Gelhar
	MW-134B	Todd Valley	4	2.92E-05	KGS
	MW-135A	Todd Valley	144	NA	Springer-Gelhar
	MW-135B	Todd Valley	29	1.57E-06	KGS
	MW-136A	Todd Valley	168	NA	Springer-Gelhar
	MW-136B	Todd Valley	74	1.00E-06	KGS
	MW-137A	Todd Valley	147	NA	Springer-Gelhar
	MW-137B	Todd Valley	39	6.27E-06	KGS
	MW-137E	Todd Valley	67	4.67E-05	KGS
	MW-138A	Todd Valley	153	NA	Springer-Gelhar
	MW-139A	Todd Valley	2	2.46E-04	KGS
	MW-151B	Todd Valley	42	1.00E-06	KGS
	MW-152B	Todd Valley	7	1.16E-05	KGS
	MW-153B	Todd Valley	103	NA	Springer-Gelhar
	MW-154A	Todd Valley	31	1.00E-06	KGS
	MW-154B	Todd Valley	4	1.00E-06	KGS
	MW-155A	Todd Valley	215	NA	Springer-Gelhar
	MW-155E	Todd Valley	117	NA	Springer-Gelhar
	MW-156A	Todd Valley/Platte Valley	127	NA	Springer-Gelhar
	MW-156B	Todd Valley/Platte Valley	0.2	1.03E-02	KGS
	MW-157A	Todd Valley/Platte Valley	251	NA	Springer-Gelhar
	MW-157B	Todd Valley/Platte Valley	21	4.36E-06	KGS
	MW-158A	Platte Valley	151	1.00E-06	KGS
LL4/AMA	MW-158B	Platte Valley	189	NA	Springer-Gelhar
	MW-158D	Omadi	3	5.08E-07	KGS
	PZ-13	Platte Valley	42	1.69E-06	KGS
	PZ-14	Omadi	2	1.23E-05	KGS
	MW-159A	Till Upland	16	1.05E-06	KGS
	MW-159B	Till Upland	73	1.00E-06	KGS
	MW-62D*	Omadi	60	7.00E-07	KGS

Notes:
*URS Slug Test Data
AMA - Atlas Missile Area
ft - Feet
ft/day - Feet per day
K - Hydraulic Conductivity
KGS - Kansas Geologic Survey
LL - Load Line
MW - Monitoring Well
NA - Information not available
NOP - Nebraska Ordnance Plant
PZ - Piezometer
Ss - Specific Storage



T: 2117 ft^2/day
Estimated K: 47-52 ft/day

K- Hydraulic Conductivity
T - Transmissivity
ft - feet
ft/day - feet per day

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Kansas City District

FIGURE A-1
TH-EW-17 Distance-Drawdown Analysis
Former NOP

Table A-2
TH-EW-17 Distance-Drawdown
Analysis Summary
2012 Groundwater Model Update
Former NOP

Well ID #	Distance from TH-EW-17 (feet)	Drawdown After 31 Hours of Pumping (feet)	Drawdown After 72 Hours of Pumping (feet)
MW-92 A	1643	0.03	-0.02
MW-79 A	1585	0.02	0
MW-81 A	1170	1.08	1.09
OW-58	525	0.22	0.26
TH-EW-13	450	0.3	0.36
OW-59	509	0.21	0.28
OW-56	360	0.4	0.53
OW-57	372	0.29	0.39
MW-93A	673	0.02	0.06
OW-107	191	0.5	0.67
OW-108	25	3.72	3.94
OW-106	60	2.01	2.18
OW-54	131	1.18	1.36
TH-EW-12	857	0.08	0.08
OW-55	855	0.08	0.07
OW-52	1023	0.06	0.06
OW-53	1055	0.08	0.06
MW-89 A	1300	-0.02	0.01
MW-90 A	825	-0.07	-0.06
MW-91 A	995	-0.03	0.01
EW-12	878	0.08	0.08

Note: Pump rate was at a constant 95 GPM.

Table A-3
Extraction Well Hydraulic Conductivity Estimates
Former NOP

Well Name	Easting	Northing	Hydraulic Conductivity (ft/day)	S	Source
EW-1	2634923.15	495188.01	447	2.50E-02	*GWM08*
	2634923.15	495188.01	389	0.06-0.12	*GMW06*
EW-2	2632445.94	496479.68	92	2.10E-03	*Re-Analysis of Pumping Data to Determine Well Ineffieciences (Layne-Western, 2001)*
EW-3	2629583.28	497009.50	356	2.00E-03	*GMW06*
EW-4	2627116.15	497384.35	60	1.10E-03	*Re-Analysis of Pumping Data to Determine Well Ineffieciences (Layne-Western, 2001)*
EW-5	2624295.95	497923.55	189	2.20E-03	*GMW06*
EW-6	2622893.13	497269.21	220	4.00E-04	*Re-Analysis of Pumping Data to Determine Well Ineffieciences (Layne-Western, 2001)*
EW-7	2621781.70	496331.02	155	1.00E-04	*GMW06*
EW-8	2607941.21	499754.08	93		*GMW06*
EW-9	2620401.52	495319.73	157	2.10E-03	*Re-Analysis of Pumping Data to Determine Well Ineffieciences (Layne-Western, 2001)*
EW-10	2619241.53	494857.11	186		*Nick Kiusalaas email 5/4/2010*
	2619241.53	494857.11	123		*GMW06*
FEW-11	2609168.88	499998.83	150	2.20E-04	*Aquifer Characterization Report (ECC, 2011)*
EW-12	2610718.18	493104.87	20		*GWM08*
EW-13	2611520.73	493092.65	13	2.80E-03	*GWM08*
FEW-14*	2625283.55	498733.83	70	1.10E-02	*GWM08*
FEW-15	2622859.07	509950.92	230	0.033	*Aquifer Characterization Report (ECC, 2011)*
	2622859.07	509950.92	180	1.00E-03	*GWM08*
EW-16	2628322.89	496730.64	480	2.80E-03	*GWM08*
TH-EW-17	2611500.55	493522.80	42.3	1.58E-03	*This Report*
EW-1R	2634925.36	495203.98	350	2.77E-03	*2012 EW-1R Installation (ECC, 2012)*

S - Storativity
* Used Distance Drawdown Value for K

Appendix B
USGS Water Data Reports - 2012

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Water-Data Report 2012

06800500 Elkhorn River at Waterloo, Nebr.

Elkhorn Basin
Lower Elkhorn Subbasin

LOCATION.--Lat 41°17′36″, long 96°17′02″ referenced to North American Datum of 1983, in SE ¼ SW ¼ sec.3, T.15 N., R.10 E., Douglas County, NE, Hydrologic Unit 10220003, on right bank downstream of Nebraska Highway 64 bridge at north edge of Waterloo, 3.5 mi downstream from Rawhide Creek, and at mile 13.8.

DRAINAGE AREA.--6,900 mi^2 of which 1,030 mi^2 probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--DAILY DISCHARGE--April 1899 to November 1903, May 1911 to September 1915, August 1928 to current year. Published as "at Arlington" 1899-1903, July 1913 to September 1915. Monthly discharge only for some periods, published in WSP 1310.

PERIOD OF RECORD.--DAILY GAGE HEIGHT--October 2009 to current year.

REVISED RECORDS.--WSP 1390: 1914 (M), 1915, 1936, 1943(M). WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 1,104.73 ft above sea level. See WSP 1918 for history of changes prior to Oct. 1, 1960. Oct. 1, 1960 to July 27, 1978, at datum 2.00 ft higher. July 28, 1978 to Nov. 17, 1993, at site 800 ft downstream at present datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Some small diversions above station for irrigation.

EXTREMES OUTSIDE PERIOD OF RECORD.--Stage and discharge of the flood of June 12, 1944, are the greatest known since at least 1880.

06800500 Elkhorn River at Waterloo, Nebr.—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	949	1,140	e1,200	1,500	1,500	1,940	1,480	1,850	2,460	882	231	146
2	951	1,160	e1,170	1,330	1,580	3,130	1,490	1,940	2,090	847	210	141
3	929	1,160	e1,190	e1,220	1,710	2,440	1,440	2,600	1,880	818	189	137
4	942	1,140	e1,200	1,220	1,800	1,910	1,420	2,680	1,740	790	164	139
5	862	1,140	e1,230	1,360	1,620	1,720	1,400	2,650	1,650	755	153	136
6	843	1,150	e1,070	1,400	1,550	1,670	1,370	3,670	1,570	e692	145	137
7	824	1,160	e1,110	1,340	1,570	1,700	1,340	2,870	1,500	661	183	137
8	840	1,170	e1,160	1,280	1,560	1,720	1,320	2,390	1,440	685	223	131
9	879	1,160	e1,220	1,300	1,530	1,720	1,300	2,040	1,360	620	209	130
10	895	1,140	e1,220	1,340	1,440	1,720	1,280	1,890	1,300	578	203	135
11	963	1,140	e1,270	1,330	e1,250	1,720	1,260	1,760	1,260	548	188	142
12	1,130	1,160	e1,320	1,230	e778	1,790	1,270	1,690	1,210	536	171	145
13	1,230	1,180	e1,410	e838	e862	1,830	1,340	1,660	1,150	526	157	163
14	1,220	1,200	e1,570	e763	e1,020	1,820	1,470	1,620	1,140	510	171	163
15	1,190	1,200	e1,550	848	e1,140	1,780	1,600	1,580	1,310	493	185	167
16	1,150	1,190	e1,520	1,030	1,330	1,770	3,080	1,490	1,450	470	190	181
17	1,180	1,180	e1,500	e1,090	1,510	1,750	2,820	1,430	1,290	449	180	190
18	1,210	1,190	e1,610	e1,050	e1,630	1,700	2,260	1,360	1,180	431	169	187
19	1,210	1,190	e1,610	e993	1,690	1,670	2,040	1,310	1,130	416	169	195
20	1,190	1,190	1,560	e873	1,690	1,660	2,030	1,770	1,100	402	179	191
21	1,190	1,140	1,510	929	1,830	1,680	2,160	2,190	1,320	378	185	197
22	1,200	1,160	1,470	1,050	1,800	1,680	2,190	1,500	1,510	359	179	194
23	1,210	1,220	1,390	1,140	1,840	1,650	2,100	1,350	1,150	343	170	193
24	1,220	1,220	1,320	1,190	1,800	1,630	2,000	1,370	1,070	331	162	204
25	1,210	1,230	1,350	1,260	1,760	1,600	2,090	1,740	1,040	313	213	218
26	1,180	1,250	1,370	1,290	1,690	1,570	1,930	2,060	1,010	296	232	227
27	1,160	1,230	1,440	1,320	1,650	1,560	1,790	2,400	961	285	224	233
28	1,140	1,200	1,470	1,340	1,630	1,520	1,730	2,650	935	271	202	232
29	1,140	1,190	1,490	1,340	1,710	1,490	1,720	7,020	932	259	185	242
30	1,140	1,200	1,520	1,390	---	1,490	1,790	4,640	908	247	162	246
31	1,140	---	1,550	1,410	---	1,490	---	3,090	---	238	152	---
Total	33,517	35,380	42,570	36,994	44,470	54,520	52,510	70,260	40,046	15,429	5,735	5,279
Mean	1,081	1,179	1,373	1,193	1,533	1,759	1,750	2,266	1,335	498	185	176
Max	1,230	1,250	1,610	1,500	1,840	3,130	3,080	7,020	2,460	882	232	246
Min	824	1,140	1,070	763	778	1,490	1,260	1,310	908	238	145	130
Ac-ft	66,480	70,180	84,440	73,380	88,210	108,100	104,200	139,400	79,430	30,600	11,380	10,470

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2012, BY WATER YEAR (WY)

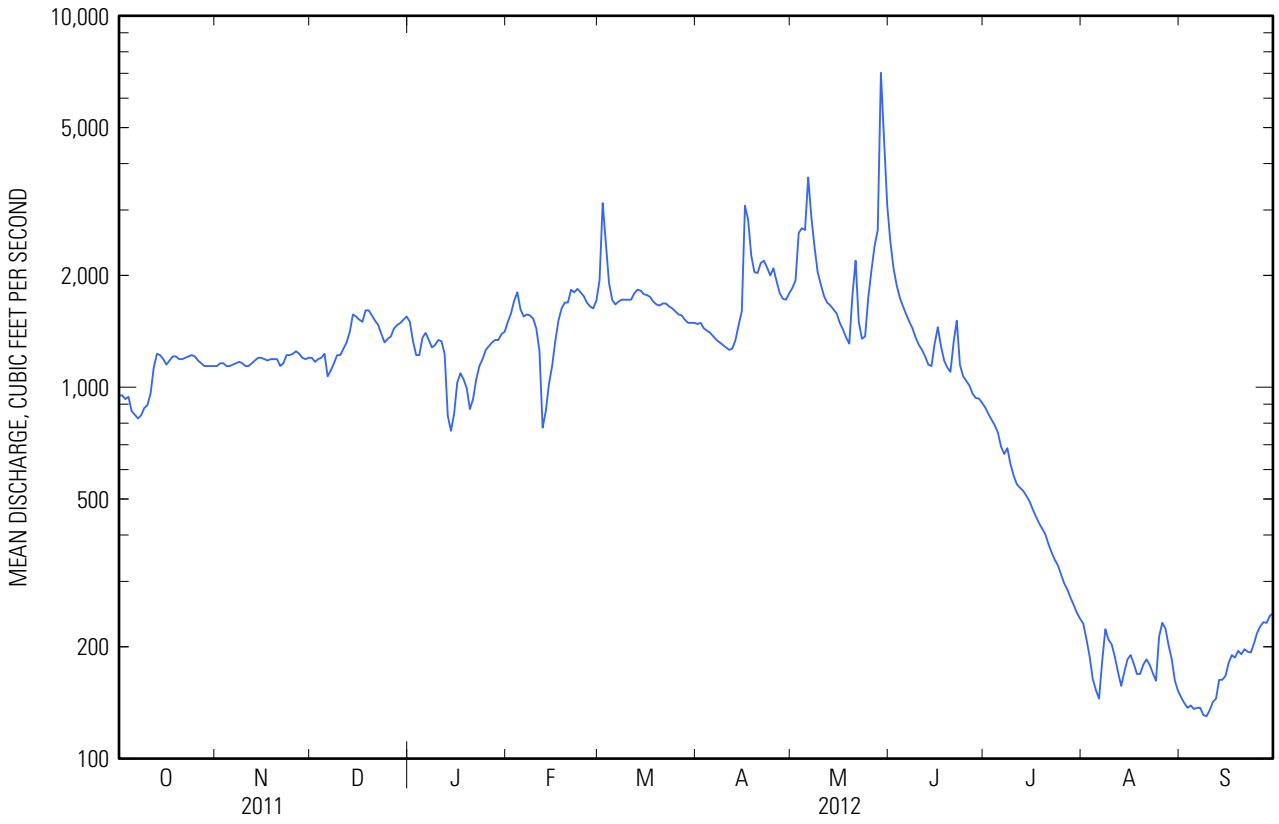
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	803	827	713	675	1,254	2,305	2,144	2,183	3,075	1,487	1,002	753
Max	3,765	2,792	1,803	1,766	6,439	8,082	10,450	7,565	19,680	11,470	4,755	2,705
(WY)	(2008)	(1999)	(1994)	(2009)	(1971)	(1993)	(1984)	(1995)	(2010)	(1993)	(1951)	(1951)
Min	150	240	150	180	256	489	512	327	405	173	117	87.8
(WY)	(1940)	(1940)	(1930)	(1977)	(1940)	(1981)	(1981)	(1934)	(1933)	(1936)	(1976)	(1939)

06800500 Elkhorn River at Waterloo, Nebr.—Continued

SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1929 - 2012	
Annual total	918,745		436,710			
Annual mean	2,517		1,193		1,434	
Highest annual mean					4,085	2010
Lowest annual mean					417	1939
Highest daily mean	15,000	Jun 21	7,020	May 29	93,800	Jun 12, 1944
Lowest daily mean	824	Oct 7	130	Sep 9	64	Sep 16, 1939
Annual seven-day minimum	869	Oct 4	135	Sep 4	66	Sep 15, 1939
Maximum peak flow			8,050	May 29	[a]100,000	Jun 12, 1944
Maximum peak stage			7.93	May 29	[b]19.12	Mar 29, 1962
Annual runoff (ac-ft)	1,822,000		866,200		1,039,000	
10 percent exceeds	5,160		1,830		2,930	
50 percent exceeds	1,710		1,220		800	
90 percent exceeds	1,110		188		315	

[a] From rating curve extended above 22,000 ft³/s; gage height, 16.60 ft, from floodmark, site and datum then in use.
[b] At present datum; discharge, 50,200 ft³/s.

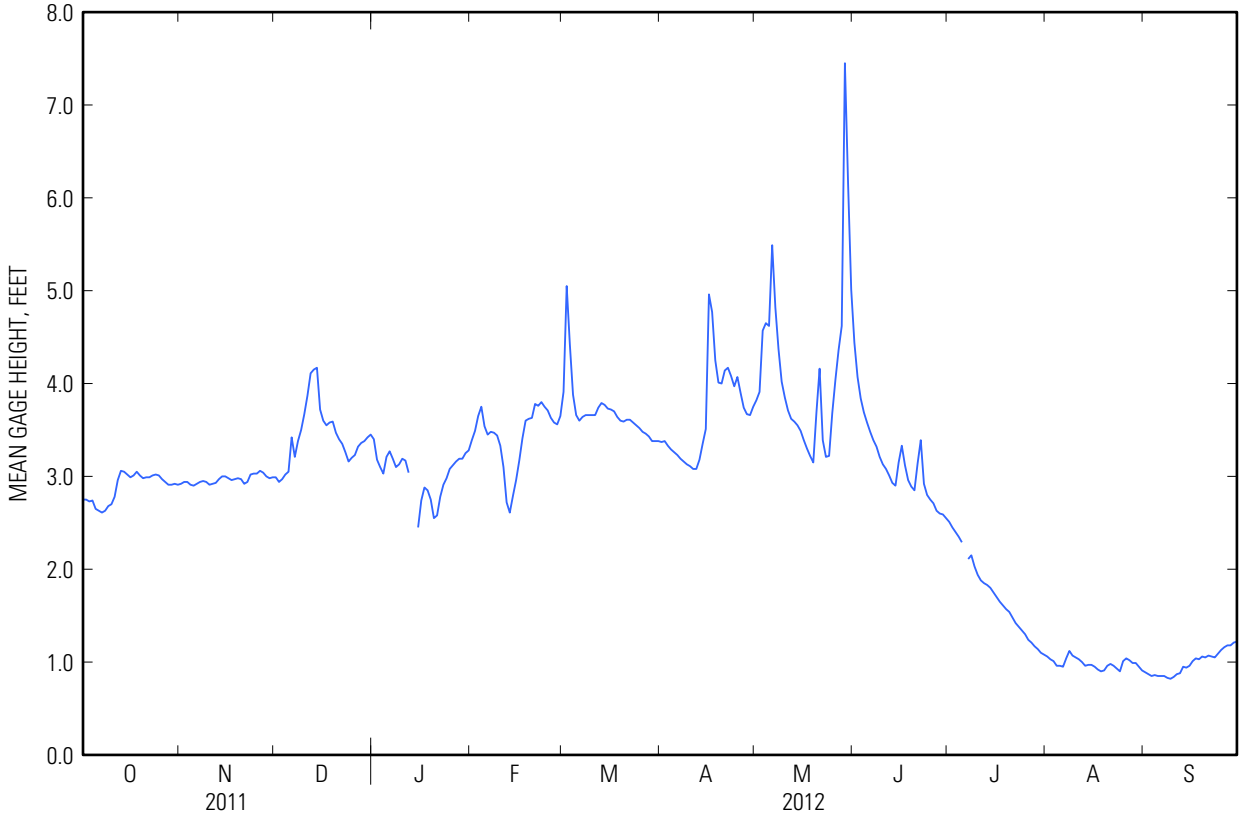


06800500 Elkhorn River at Waterloo, Nebr.—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2.75	2.92	2.99	3.40	3.39	3.91	3.37	3.82	4.44	2.51	1.06	0.89
2	2.75	2.94	2.94	3.18	3.49	5.05	3.38	3.91	4.07	2.45	1.03	0.87
3	2.73	2.94	2.97	3.10	3.65	4.42	3.33	4.57	3.84	2.40	1.01	0.85
4	2.74	2.91	3.02	3.03	3.75	3.88	3.29	4.65	3.69	2.35	0.96	0.86
5	2.65	2.90	3.05	3.21	3.54	3.66	3.26	4.62	3.58	2.29	0.96	0.85
6	2.63	2.92	3.42	3.27	3.45	3.60	3.23	5.49	3.48	---	0.95	0.85
7	2.61	2.94	3.21	3.19	3.48	3.64	3.19	4.82	3.39	2.11	1.04	0.85
8	2.63	2.95	3.38	3.10	3.47	3.66	3.16	4.37	3.32	2.15	1.12	0.83
9	2.68	2.94	3.50	3.13	3.44	3.66	3.13	4.02	3.21	2.03	1.07	0.82
10	2.70	2.91	3.67	3.19	3.33	3.66	3.11	3.85	3.13	1.94	1.05	0.84
11	2.78	2.92	3.87	3.17	3.10	3.66	3.08	3.71	3.08	1.88	1.03	0.87
12	2.96	2.93	4.11	3.04	2.72	3.74	3.08	3.62	3.01	1.85	1.00	0.88
13	3.06	2.97	4.15	---	2.61	3.79	3.18	3.59	2.93	1.83	0.96	0.95
14	3.05	3.00	4.17	---	2.79	3.77	3.35	3.55	2.90	1.80	0.97	0.94
15	3.02	3.00	3.72	2.45	2.96	3.73	3.51	3.49	3.15	1.75	0.97	0.96
16	2.99	2.98	3.60	2.74	3.17	3.72	4.96	3.39	3.33	1.70	0.95	1.01
17	3.01	2.96	3.55	2.88	3.41	3.70	4.77	3.30	3.12	1.65	0.92	1.04
18	3.05	2.97	3.58	2.85	3.60	3.64	4.25	3.22	2.96	1.61	0.90	1.03
19	3.01	2.98	3.59	2.75	3.62	3.60	4.01	3.15	2.89	1.57	0.91	1.06
20	2.98	2.97	3.47	2.55	3.63	3.59	4.00	3.69	2.85	1.54	0.96	1.05
21	2.99	2.92	3.40	2.58	3.78	3.61	4.14	4.16	3.14	1.48	0.98	1.07
22	2.99	2.94	3.35	2.78	3.76	3.61	4.17	3.39	3.39	1.42	0.96	1.06
23	3.01	3.02	3.26	2.91	3.80	3.58	4.08	3.21	2.92	1.38	0.93	1.05
24	3.02	3.03	3.16	2.98	3.75	3.55	3.97	3.22	2.80	1.34	0.90	1.09
25	3.01	3.03	3.20	3.08	3.71	3.52	4.07	3.68	2.75	1.30	1.01	1.13
26	2.97	3.06	3.23	3.12	3.63	3.48	3.90	4.04	2.71	1.24	1.04	1.16
27	2.94	3.04	3.32	3.16	3.58	3.46	3.74	4.36	2.63	1.21	1.02	1.18
28	2.91	3.00	3.36	3.19	3.56	3.43	3.67	4.62	2.60	1.17	0.99	1.18
29	2.91	2.98	3.38	3.19	3.65	3.38	3.66	7.45	2.59	1.14	0.99	1.21
30	2.92	2.99	3.42	3.25	---	3.38	3.75	6.16	2.55	1.10	0.95	1.22
31	2.91	---	3.45	3.28	---	3.38	---	5.01	---	1.08	0.91	---
Mean	2.88	2.97	3.44	---	3.44	3.69	3.66	4.13	3.15	---	0.98	0.99
Max	3.06	3.06	4.17	---	3.80	5.05	4.96	7.45	4.44	---	1.12	1.22
Min	2.61	2.90	2.94	---	2.61	3.38	3.08	3.15	2.55	---	0.90	0.82

06800500 Elkhorn River at Waterloo, Nebr.—Continued



06800500 Elkhorn River at Waterloo, Nebr.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1948-49, 1960, 1967-95, 2003 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October to September 2003, June 2007 to present (seasonal records only).
SPECIFIC CONDUCTANCE: Limited daily records of poor quality during water years 1967 to 1970; March to September 2003, June 2007 to present (seasonal records only).
TURBIDITY: March 2008 to present (seasonal records only).
DISSOLVED OXYGEN: March 2008 to present (seasonal records only).

INSTRUMENTATION.--Seasonal deployment of a continuous water-quality monitor. Measured parameters include water temperature, specific conductance, dissolved oxygen, and turbidity. Turbidity measurements conform to ISO 7027 standards and were made using a Yellow Springs International (YSI) 6136 sensor. Dissolved oxygen measurements were collected using a luminescent sensor.

REMARKS.--The water temperature and dissolved oxygen data are rated as excellent; the specific conductance and turbidity are rated as good. Interruptions in the seasonal records are due to instrument malfunction, ice conditions or measured error outside of allowable limits.

EXTREMES FOR PERIOD OF RECORD.--Extremes computed from periods of approved record since 2003, and may have been exceeded during non-measured periods.
WATER TEMPERATURE: Maximum, 35.8 °C, July 19, 2012; minimum, 1.7 °C, November 2, 2002.
SPECIFIC CONDUCTANCE: Maximum, 796 µS/cm, June 25, 2003; minimum, 161 µS/cm, October 2, 2007.
DISSOLVED OXYGEN: Maximum, 22.6 mg/L, September 25, 2012; minimum, 3.0 mg/L, June 8 and 9, 2010.
TURBIDITY: Maximum, >1,000 FNU, sensor limit exceeded numerous times, typically during periods of runoff; minimum, 11 FNU, September 28-30, 2012.

EXTREMES FOR CURRENT YEAR.--These extremes may have been exceeded during non-measured periods.
WATER TEMPERATURE: Maximum, 35.8°C, July 19; minimum, 8.1°C, March 12.
SPECIFIC CONDUCTANCE: Maximum, 670 µS/cm, August 16; minimum, 390 µS/cm, May 30.
DISSOLVED OXYGEN: Maximum, 22.6 mg/L, September 25; minimum, 3.6 mg/L, May 29.
TURBIDITY: Maximum, >1,000 FNU, sensor limit exceeded numerous times, typically during periods of runoff; minimum, 11 FNU, September 28-30.

06800500 Elkhorn River at Waterloo, Nebr.—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	18.3	9.2	12.8	---	---	---	---	---	---	---	---	---
2	17.9	9.3	12.7	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
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14	---	---	---	---	---	---	---	---	---	---	---	---
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17	---	---	---	---	---	---	---	---	---	---	---	---
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31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

06800500 Elkhorn River at Waterloo, Nebr.—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	---	---	---	---	---	---	16.6	8.1	11.6	10.0	8.5	9.4
2	---	---	---	---	---	---	17.8	7.5	11.8	9.1	8.0	8.4
3	---	---	---	---	---	---	17.1	8.0	12.0	8.0	7.1	7.5
4	---	---	---	---	---	---	14.2	8.7	11.2	7.2	6.8	7.1
5	---	---	---	---	---	---	18.2	9.3	13.1	6.9	6.2	6.6
6	---	---	---	---	---	---	18.0	9.6	13.2	6.2	5.4	5.8
7	---	---	---	---	---	---	18.3	9.5	13.0	7.1	6.1	6.7
8	---	---	---	---	---	---	18.4	9.9	13.6	8.2	7.1	7.9
9	---	---	---	---	---	---	18.4	9.8	13.6	8.7	8.2	8.5
10	---	---	---	---	---	---	18.2	10.0	13.7	9.0	8.4	8.7
11	---	---	---	---	---	---	17.9	10.4	13.7	9.9	8.2	8.9
12	---	---	---	---	---	---	14.2	10.1	12.0	11.0	8.6	9.6
13	---	---	---	10.8	10.0	10.6	14.7	10.4	12.2	12.3	8.8	10.3
14	---	---	---	10.1	9.5	9.9	11.0	9.5	10.2	13.5	8.8	10.8
15	---	---	---	10.2	9.4	9.8	11.4	9.1	9.9	15.8	8.4	11.4
16	---	---	---	10.3	9.1	9.7	9.1	7.3	8.2	17.6	8.5	12.6
17	---	---	---	10.2	8.8	9.3	8.8	7.6	8.5	17.4	8.6	12.5
18	---	---	---	10.4	8.5	9.2	8.8	8.1	8.6	17.2	8.3	12.3
19	---	---	---	10.2	8.3	9.2	8.9	8.1	8.4	16.7	7.1	11.2
20	---	---	---	10.8	8.8	9.6	9.6	8.9	9.4	9.9	5.5	7.8
21	---	---	---	11.5	9.2	10.1	9.7	9.3	9.5	6.9	6.0	6.7
22	---	---	---	12.6	9.2	10.6	9.7	9.3	9.5	11.9	6.9	9.0
23	---	---	---	13.4	9.1	10.8	9.7	9.1	9.5	14.8	7.5	10.5
24	---	---	---	14.3	9.2	11.2	9.2	8.6	9.1	14.9	6.8	10.0
25	---	---	---	15.5	9.0	11.6	8.6	8.2	8.5	9.7	7.5	8.3
26	---	---	---	14.0	8.7	11.0	8.7	8.1	8.4	8.0	7.2	7.5
27	---	---	---	16.2	8.3	11.5	9.3	8.3	8.9	8.3	5.9	7.2
28	---	---	---	16.1	8.7	11.8	10.1	9.1	9.6	6.5	5.8	6.2
29	---	---	---	13.0	8.8	10.9	10.2	9.5	9.8	6.0	3.6	4.0
30	---	---	---	15.8	8.9	11.5	10.7	9.5	10.1	6.5	4.4	5.6
31	---	---	---	16.0	8.6	11.5	---	---	---	7.6	6.5	7.1
Month	---	---	---	---	---	---	18.4	7.3	10.7	17.6	3.6	8.6

06800500 Elkhorn River at Waterloo, Nebr.—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	8.1	7.6	8.0	17.2	5.8	10.6	---	---	---	20.1	5.4	10.8
2	8.5	8.0	8.3	19.3	5.6	11.5	---	---	---	18.8	5.5	10.3
3	9.3	7.9	8.4	20.3	5.4	11.8	---	---	---	13.8	5.2	8.5
4	12.6	7.6	9.6	20.1	5.2	11.7	---	---	---	17.5	5.5	9.7
5	11.3	6.6	8.7	20.9	5.1	12.2	---	---	---	16.4	5.2	9.7
6	10.5	5.8	7.9	21.5	4.7	12.0	---	---	---	14.6	6.1	9.3
7	12.6	6.5	9.1	20.2	4.4	11.1	---	---	---	13.6	5.5	8.7
8	14.7	6.8	10.3	20.9	5.2	12.4	---	---	---	12.8	6.7	9.1
9	15.6	6.8	10.8	22.4	5.4	12.9	20.4	6.8	12.8	14.2	6.4	9.6
10	14.4	6.6	10.2	22.0	4.9	12.5	20.2	7.9	13.1	10.3	5.5	7.6
11	16.8	6.8	11.1	20.9	4.9	12.2	18.7	8.4	12.6	12.4	5.0	8.2
12	18.4	7.2	11.9	20.8	4.7	11.7	17.4	8.4	12.2	14.9	5.2	9.1
13	17.5	7.2	11.6	20.3	4.3	11.0	17.8	8.8	12.3	11.6	5.1	8.3
14	18.0	7.0	10.8	19.5	4.1	10.4	17.9	8.8	12.6	12.3	4.4	7.7
15	10.6	6.6	8.2	19.4	4.0	10.5	17.8	8.9	12.6	13.8	4.1	8.0
16	11.2	7.3	8.9	19.7	4.3	10.8	17.8	8.6	12.4	15.6	4.2	7.8
17	15.6	7.3	10.9	20.4	4.7	11.0	17.6	9.4	12.8	15.1	4.5	8.5
18	19.2	6.3	12.0	20.8	4.6	11.2	15.0	8.9	11.5	14.9	6.9	10.5
19	---	---	---	21.3	4.7	11.3	16.8	9.7	12.5	16.4	7.1	10.9
20	---	---	---	20.4	4.8	11.0	18.0	8.5	12.4	16.9	7.6	11.2
21	13.2	6.7	8.9	18.6	5.4	10.8	17.9	7.3	11.9	16.0	7.8	11.2
22	9.3	6.5	7.6	18.3	6.0	11.0	16.7	6.8	11.2	16.8	8.0	11.5
23	15.8	6.8	10.2	19.7	5.8	11.4	14.7	7.4	10.7	17.5	8.7	12.2
24	18.4	6.6	11.8	19.7	5.8	11.5	12.9	6.5	9.0	19.8	8.5	12.6
25	17.4	5.9	10.8	---	---	---	9.0	5.9	7.3	22.6	7.9	13.5
26	18.1	6.2	11.4	---	---	---	14.6	6.1	9.2	21.6	7.4	13.2
27	19.5	5.9	11.6	---	---	---	18.9	6.0	10.8	20.3	8.2	12.8
28	17.2	5.2	10.0	---	---	---	19.4	5.3	10.7	20.1	8.4	13.0
29	13.7	5.4	8.7	---	---	---	18.4	5.6	10.6	19.9	8.5	12.9
30	14.7	5.9	9.6	---	---	---	18.4	5.6	10.5	20.5	8.1	13.2
31	---	---	---	---	---	---	19.1	5.5	10.8	---	---	---
Month	---	---	---	---	---	---	---	---	---	22.6	4.1	10.3

06800500 Elkhorn River at Waterloo, Nebr.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	642	587	620	---	---	---	---	---	---	---	---	---
2	663	539	614	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
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12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
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17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
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29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

06800500 Elkhorn River at Waterloo, Nebr.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	---	---	---	---	---	---	531	482	512	589	567	578
2	---	---	---	---	---	---	517	460	498	571	553	565
3	---	---	---	---	---	---	501	462	488	571	496	543
4	---	---	---	---	---	---	524	486	500	497	453	483
5	---	---	---	---	---	---	532	485	518	515	466	488
6	---	---	---	---	---	---	516	483	504	495	413	445
7	---	---	---	---	---	---	522	488	507	501	458	477
8	---	---	---	---	---	---	523	479	507	525	465	491
9	---	---	---	---	---	---	533	479	512	563	523	553
10	---	---	---	---	---	---	534	486	515	585	562	573
11	---	---	---	---	---	---	541	495	523	596	585	589
12	---	---	---	---	---	---	573	531	552	596	588	593
13	---	---	---	601	593	597	588	567	578	589	571	580
14	---	---	---	604	595	598	586	577	581	573	553	563
15	---	---	---	606	603	605	583	558	568	558	517	544
16	---	---	---	608	602	606	572	494	537	531	480	513
17	---	---	---	611	598	604	509	483	493	---	---	---
18	---	---	---	612	601	606	555	509	533	---	---	---
19	---	---	---	605	596	602	573	555	561	450	415	436
20	---	---	---	605	591	599	584	572	579	478	433	449
21	---	---	---	600	592	597	577	554	565	479	398	442
22	---	---	---	599	588	595	555	535	543	510	470	497
23	---	---	---	601	587	594	535	527	530	501	443	474
24	---	---	---	602	584	594	535	530	532	492	455	474
25	---	---	---	598	550	580	533	526	528	506	474	494
26	---	---	---	568	526	554	541	529	535	506	483	494
27	---	---	---	554	512	539	551	540	548	588	477	531
28	---	---	---	532	494	518	559	548	553	521	448	484
29	---	---	---	558	510	535	565	557	561	518	396	452
30	---	---	---	563	530	552	578	563	569	429	390	403
31	---	---	---	557	509	540	---	---	---	486	429	460
Month	---	---	---	---	---	---	588	460	534	---	---	---

06800500 Elkhorn River at Waterloo, Nebr.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	571	486	527	---	---	---	591	526	554	615	575	591
2	628	571	601	---	---	---	588	525	555	618	573	594
3	665	628	651	---	---	---	590	526	557	617	583	598
4	---	---	---	---	---	---	572	474	531	618	579	597
5	---	---	---	---	---	---	502	444	473	618	569	591
6	---	---	---	---	---	---	515	439	475	627	588	604
7	---	---	---	---	---	---	561	477	527	632	595	611
8	---	---	---	---	---	---	594	461	537	628	597	612
9	---	---	---	---	---	---	542	487	527	640	591	615
10	---	---	---	---	---	---	578	536	559	630	586	603
11	---	---	---	---	---	---	575	540	557	633	574	597
12	505	450	479	---	---	---	597	555	577	619	537	578
13	510	437	477	---	---	---	611	569	598	599	528	560
14	499	446	472	---	---	---	641	600	629	588	527	554
15	542	446	491	---	---	---	665	633	647	596	479	545
16	553	529	542	---	---	---	670	631	648	559	437	502
17	548	457	513	510	452	483	662	623	643	563	417	504
18	---	---	---	507	458	486	651	615	632	545	398	488
19	---	---	---	514	453	487	629	588	612	---	---	---
20	---	---	---	507	457	487	633	585	610	632	583	605
21	562	480	525	515	442	492	635	549	591	636	588	608
22	535	476	502	514	446	491	---	---	---	---	---	---
23	544	510	529	522	422	479	604	483	555	603	490	555
24	526	456	498	535	442	493	604	520	588	---	---	---
25	498	423	466	---	---	---	626	516	563	609	508	562
26	---	---	---	---	---	---	589	530	569	---	---	---
27	---	---	---	---	---	---	588	533	561	556	453	518
28	---	---	---	551	502	528	590	514	546	500	436	472
29	---	---	---	552	514	532	575	525	548	568	481	535
30	---	---	---	585	520	553	593	541	570	568	473	527
31	---	---	---	597	515	558	613	563	585	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

06800500 Elkhorn River at Waterloo, Nebr.—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	58	49	54	---	---	---	---	---	---	---	---	---
2	70	47	52	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

06800500 Elkhorn River at Waterloo, Nebr.—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	---	---	---	---	---	---	60	49	54	110	92	98
2	---	---	---	---	---	---	59	51	55	140	110	130
3	---	---	---	---	---	---	57	52	55	230	120	180
4	---	---	---	---	---	---	55	44	49	550	200	250
5	---	---	---	---	---	---	46	41	43	440	200	340
6	---	---	---	---	---	---	48	39	43	1,380	410	980
7	---	---	---	---	---	---	48	41	44	1,140	750	960
8	---	---	---	---	---	---	52	40	45	750	400	550
9	---	---	---	---	---	---	49	40	43	400	260	320
10	---	---	---	---	---	---	45	38	42	260	150	200
11	---	---	---	---	---	---	43	36	39	160	120	140
12	---	---	---	---	---	---	40	32	36	140	100	120
13	---	---	---	81	75	78	49	32	36	130	89	100
14	---	---	---	77	71	75	61	40	51	100	79	89
15	---	---	---	73	65	70	110	52	72	96	70	80
16	---	---	---	68	63	65	1,210	94	430	93	73	82
17	---	---	---	65	61	62	1,180	430	690	97	77	84
18	---	---	---	65	60	62	470	380	420	95	77	84
19	---	---	---	65	61	63	450	260	360	86	75	80
20	---	---	---	63	58	61	260	180	210	1,220	81	390
21	---	---	---	59	54	56	180	160	160	1,200	690	950
22	---	---	---	56	52	54	160	150	160	690	150	300
23	---	---	---	57	53	55	150	140	150	150	100	120
24	---	---	---	56	52	54	140	130	130	120	95	100
25	---	---	---	72	53	59	140	130	130	420	110	230
26	---	---	---	80	61	67	130	120	130	670	420	560
27	---	---	---	72	63	68	120	110	120	1,070	280	470
28	---	---	---	68	59	64	110	93	100	1,090	580	770
29	---	---	---	63	51	57	96	84	88	1,240	660	1,180
30	---	---	---	71	47	54	95	82	87	1,220	1,180	1,210
31	---	---	---	68	49	60	---	---	---	1,190	820	1,060
Month	---	---	---	---	---	---	1,210	32	140	1,380	70	390

06800500 Elkhorn River at Waterloo, Nebr.—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	---	---	---	63	51	55	29	19	24	28	21	24
2	---	---	---	62	52	57	28	18	23	25	20	23
3	260	180	220	64	52	58	30	18	23	28	21	25
4	180	160	170	69	53	60	47	22	28	34	18	23
5	170	130	150	---	---	---	51	21	32	24	18	21
6	130	100	120	---	---	---	63	28	44	21	17	19
7	160	96	120	64	48	54	---	---	---	21	15	17
8	120	73	95	96	48	57	---	---	---	16	12	14
9	92	71	79	---	---	---	31	20	24	16	12	14
10	73	65	69	---	---	---	27	19	23	16	12	14
11	70	62	66	65	46	56	25	18	21	16	13	14
12	68	59	62	54	47	50	23	16	19	17	12	14
13	66	55	60	52	42	47	23	18	20	---	---	---
14	110	60	71	---	---	---	26	20	23	---	---	---
15	110	88	96	---	---	---	28	21	24	22	16	19
16	150	92	120	---	---	---	32	22	26	24	17	20
17	130	83	110	47	35	41	27	21	23	31	19	25
18	84	70	78	44	33	39	26	19	22	33	22	27
19	73	64	68	42	32	37	24	18	21	30	18	22
20	75	59	63	41	30	36	30	22	25	23	16	18
21	340	57	120	40	30	35	40	28	33	20	15	17
22	370	130	260	39	28	33	---	---	---	18	14	15
23	130	73	91	38	26	32	---	---	---	15	12	14
24	94	60	70	35	25	30	---	---	---	16	13	15
25	66	57	61	33	24	29	61	34	48	18	14	16
26	63	53	58	33	22	28	52	30	39	22	14	17
27	66	55	60	34	24	28	38	28	32	26	13	17
28	62	56	59	33	23	28	39	28	34	16	11	13
29	62	56	58	31	22	26	37	28	33	16	11	13
30	62	53	56	29	20	25	37	24	29	16	11	12
31	---	---	---	30	20	25	35	22	27	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

06800500 Elkhorn River at Waterloo, Nebr.—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	17.2	13.6	15.5	---	---	---	---	---	---	---	---	---
2	17.4	13.5	15.5	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

06800500 Elkhorn River at Waterloo, Nebr.—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	---	---	---	---	---	---	21.8	17.6	19.6	20.9	16.1	18.4
2	---	---	---	---	---	---	23.1	19.0	20.9	23.0	19.6	21.1
3	---	---	---	---	---	---	21.1	17.6	18.9	24.4	21.1	22.8
4	---	---	---	---	---	---	18.1	15.2	16.2	26.1	22.3	24.2
5	---	---	---	---	---	---	17.2	13.7	15.3	27.3	24.1	25.6
6	---	---	---	---	---	---	16.2	12.7	14.6	26.2	22.4	23.9
7	---	---	---	---	---	---	16.3	13.0	14.4	22.4	19.6	20.8
8	---	---	---	---	---	---	16.3	11.9	14.2	20.1	17.9	18.8
9	---	---	---	---	---	---	15.9	12.2	14.2	20.2	16.1	18.1
10	---	---	---	---	---	---	15.2	11.5	13.4	21.4	16.9	19.2
11	---	---	---	---	---	---	14.9	10.6	12.8	21.6	18.7	20.2
12	---	---	---	---	---	---	13.3	11.0	11.7	20.8	17.2	19.1
13	---	---	---	13.3	9.2	11.1	15.6	10.5	12.8	21.7	17.8	19.7
14	---	---	---	15.7	12.1	13.7	14.8	13.5	14.2	23.2	18.5	20.8
15	---	---	---	15.0	13.0	14.2	17.2	14.2	15.4	24.0	20.1	22.0
16	---	---	---	17.8	14.1	15.8	15.2	13.2	14.2	23.6	19.6	21.7
17	---	---	---	19.2	16.1	17.6	15.4	12.2	13.7	23.1	19.0	21.2
18	---	---	---	20.4	17.4	18.7	17.8	13.8	15.6	23.8	19.8	21.7
19	---	---	---	19.2	17.2	18.2	17.1	13.8	15.6	23.6	20.6	22.0
20	---	---	---	17.2	15.3	16.1	15.2	12.0	13.6	22.2	20.0	21.2
21	---	---	---	15.5	14.6	15.1	15.6	12.6	14.0	22.2	18.7	20.5
22	---	---	---	17.1	14.4	15.6	15.8	12.6	14.2	22.9	19.1	21.0
23	---	---	---	18.2	14.8	16.3	17.0	12.9	14.9	23.3	19.0	21.3
24	---	---	---	18.6	14.6	16.7	18.4	14.8	16.4	22.4	20.0	21.3
25	---	---	---	19.4	15.7	17.6	20.9	17.1	18.8	21.0	19.2	19.9
26	---	---	---	19.9	17.1	18.4	20.7	18.2	19.6	22.8	18.3	20.4
27	---	---	---	20.0	16.9	18.4	19.7	15.3	17.1	24.9	21.8	23.3
28	---	---	---	18.9	15.9	17.5	16.2	13.8	15.0	25.7	22.8	24.2
29	---	---	---	17.6	15.7	16.4	15.3	13.4	14.0	24.5	21.3	22.6
30	---	---	---	18.6	15.1	16.8	17.7	12.9	15.0	21.3	19.3	20.3
31	---	---	---	20.1	15.9	18.0	---	---	---	19.3	17.6	18.2
Month	---	---	---	---	---	---	23.1	10.5	15.3	27.3	16.1	21.1

06800500 Elkhorn River at Waterloo, Nebr.—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	18.0	16.2	17.2	31.8	27.3	29.5	33.7	26.8	30.1	32.0	24.1	27.7
2	21.1	16.1	18.4	32.3	27.4	29.9	34.0	26.3	29.9	31.1	23.6	27.2
3	23.3	19.1	21.0	32.8	27.5	30.1	33.7	26.5	29.8	27.4	24.8	26.1
4	26.7	22.1	24.2	32.7	27.8	30.4	29.4	24.1	27.0	31.6	23.3	26.9
5	27.3	23.6	25.6	33.7	28.5	31.0	30.4	21.7	25.9	28.1	23.3	25.5
6	27.9	24.1	26.0	34.2	28.7	31.5	30.8	22.7	26.6	26.3	19.4	23.0
7	27.5	24.0	25.8	32.2	28.9	30.4	33.0	23.9	28.1	24.0	19.0	21.1
8	27.4	23.5	25.5	30.1	26.6	28.5	32.5	25.4	28.3	24.4	15.7	19.8
9	26.9	22.8	25.0	31.6	25.8	28.7	29.9	23.6	26.7	25.1	16.4	20.6
10	26.1	23.3	24.8	31.2	25.7	28.5	29.5	21.7	25.4	24.4	17.2	20.7
11	26.4	22.5	24.5	31.0	25.0	28.0	28.1	21.3	24.5	24.8	17.4	20.8
12	25.8	21.7	23.9	32.0	25.9	28.9	27.0	21.9	24.3	21.2	17.4	19.9
13	24.9	21.3	23.1	33.9	27.3	30.5	27.2	20.4	23.3	21.3	15.6	18.1
14	26.3	21.8	23.8	33.9	27.6	30.8	28.2	20.5	24.0	23.2	15.5	19.0
15	23.6	21.7	22.3	33.2	27.8	30.5	28.4	20.4	24.4	23.6	15.9	19.6
16	23.4	20.6	21.7	32.5	26.5	29.6	26.1	20.5	23.3	22.6	18.6	20.2
17	27.2	21.6	24.2	33.4	27.0	30.2	27.4	17.9	22.4	20.3	17.1	18.8
18	29.8	24.0	26.8	34.4	27.9	31.0	23.1	18.7	20.2	21.2	13.6	17.2
19	29.9	25.7	27.9	35.8	28.7	32.1	25.8	16.1	20.7	22.0	14.9	18.0
20	27.7	23.7	25.6	35.1	28.6	31.7	27.7	18.9	23.1	19.1	15.1	17.3
21	26.3	21.5	23.9	32.2	27.2	29.7	28.8	20.5	24.4	20.4	15.0	17.5
22	27.3	22.3	24.7	32.6	26.0	29.1	28.4	21.7	24.8	19.2	12.7	16.0
23	27.9	22.7	25.3	33.9	26.9	30.3	26.6	21.1	24.0	19.1	11.7	15.2
24	30.7	24.6	27.5	33.7	27.3	30.5	24.8	22.1	23.6	18.4	13.4	16.0
25	30.0	26.9	28.4	33.9	26.4	29.8	22.9	20.9	21.7	22.5	14.7	18.2
26	29.0	24.4	26.9	33.9	26.3	29.8	26.4	21.6	23.5	20.6	15.7	18.0
27	31.6	25.2	28.3	31.6	24.6	28.3	30.0	21.7	25.5	20.8	13.6	17.0
28	32.4	28.3	30.3	30.1	24.7	27.0	29.4	23.4	26.0	18.9	13.4	16.1
29	30.5	27.7	28.9	32.8	23.3	27.6	28.9	22.1	25.2	20.6	13.4	16.8
30	30.8	25.9	28.4	33.5	26.7	29.7	29.6	22.2	25.7	20.7	15.0	17.8
31	---	---	---	34.2	26.2	30.1	30.6	22.6	26.4	---	---	---
Month	32.4	16.1	25.0	35.8	23.3	29.8	34.0	16.1	25.1	32.0	11.7	19.9

Water-Data Report 2012

06801000 Platte River near Ashland, Nebr.

Lower Platte Basin
Lower Platte Subbasin

LOCATION.--Lat 41°03′44″, long 96°19′29″ referenced to North American Datum of 1983, in SE ¼ SW ¼ sec.29, T.13 N., R.10 E., Sarpy County, NE, Hydrologic Unit 10200202, on left bank, 35 ft northeast of upstream side of Highway 6 bridge, 3 mi northeast of Ashland, 2 mi upstream from Salt Creek, and at mile 27.9.

DRAINAGE AREA.--83,600 mi^2 of which 14,300 mi^2 probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--DAILY DISCHARGE--August 1928 to May 1953, July 1988 to current year.

PERIOD OF RECORD.--DAILY GAGE HEIGHT--October 2009 to current year.

REVISED RECORDS.--WDR NE-94-1: 1993 (M). WDR-US-2010: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 1,040.00 ft above sea level. Prior to Oct. 1, 1929, chain gage at former highway bridge 0.5 mi upstream at datum 15.83 ft higher. Oct. 1, 1929 to Oct. 7, 1933, staff or chain gage at former highway bridge 0.5 mi upstream at datum 14.79 ft higher. Oct. 14, 1933 to Dec. 10, 1938, water-stage recorder at site 950 ft upstream from former bridge at datum 14.79 ft higher. Dec. 11, 1938 to June 16, 1948, water-stage recorder at former highway bridge 0.5 mi upstream at datum 14.79 ft higher. June 17, 1948 to May 11, 1953, 0.5 mi downstream of Highway 6 bridge at datum 12.51 ft higher.

REMARKS.--Records fair except for the estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, groundwater withdrawals, diversions for irrigation, and return flow from irrigated areas.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 06801000, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/06801000.2012.pdf

06801000 Platte River near Ashland, Nebr.—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	6,790	8,320	6,580	e8,780	e9,910	9,190	6,070	7,870	e6,940	e1,780	287	465
2	6,830	7,870	e6,510	e8,650	e9,060	10,900	6,000	7,430	5,960	e1,540	306	417
3	7,100	8,530	5,760	e7,600	e8,230	10,100	5,660	7,580	5,800	e1,480	355	375
4	6,980	8,380	e5,550	e7,390	e8,320	9,530	7,760	7,840	5,870	e1,430	353	392
5	6,850	8,350	e5,530	e7,490	e7,510	8,850	5,560	7,640	5,410	1,300	318	377
6	7,250	8,600	e5,340	e8,280	e7,540	8,800	4,870	8,650	5,050	1,210	263	372
7	7,290	7,920	e5,190	e7,980	e8,380	8,490	6,230	8,140	4,750	1,170	275	379
8	7,250	8,510	e4,760	e7,600	e8,270	8,620	6,380	7,200	4,720	1,170	362	360
9	7,820	8,140	e4,430	e7,630	e8,360	8,590	6,220	6,940	4,170	1,130	461	491
10	9,110	8,430	e4,760	e7,670	e8,110	8,840	5,910	6,230	3,920	1,080	480	623
11	11,200	8,600	e5,270	e7,760	e7,660	8,720	5,990	5,880	3,810	1,000	450	684
12	12,300	8,040	e6,790	e7,270	e7,130	8,540	6,050	5,540	3,510	990	458	976
13	12,500	7,830	e8,140	e6,470	e5,540	8,440	5,800	5,270	3,150	1,050	404	942
14	10,700	7,600	e9,590	e6,000	e4,820	8,340	6,170	4,840	2,700	1,060	366	1,020
15	10,100	7,590	e9,380	e5,900	e5,110	8,160	7,270	4,720	3,570	914	334	1,020
16	9,410	7,710	e9,110	e5,740	e5,330	7,950	9,560	4,490	3,810	722	301	1,080
17	9,150	7,300	e8,770	e6,040	e7,090	7,930	11,700	4,220	3,240	676	237	1,260
18	8,640	7,530	e8,640	e6,880	e8,380	7,680	10,800	4,200	2,740	784	284	1,280
19	8,280	6,810	e8,510	e6,520	e8,810	7,550	8,410	4,130	2,750	716	334	1,190
20	8,290	7,200	e8,420	e5,230	e9,470	7,560	8,210	4,450	2,700	669	434	1,100
21	8,420	6,780	e7,430	e4,450	e9,590	7,180	8,140	5,300	2,960	613	406	1,290
22	7,910	6,210	e7,770	e4,080	e9,950	7,800	7,760	4,180	3,340	590	426	1,300
23	8,770	6,510	e7,850	e3,970	9,890	8,200	8,560	3,930	2,750	562	434	1,280
24	8,240	7,160	6,960	e4,230	9,580	8,070	7,320	4,250	2,280	518	436	1,470
25	8,380	6,910	6,960	e5,080	e9,440	8,070	6,830	4,520	2,370	501	399	1,640
26	7,850	6,510	7,060	e6,260	9,700	7,460	6,480	5,340	2,200	507	575	1,600
27	8,100	7,120	7,720	e7,190	9,110	7,310	5,790	5,350	1,870	474	576	1,610
28	7,860	7,030	8,240	e8,050	8,930	7,220	5,700	6,380	1,790	442	500	1,570
29	8,470	6,780	8,290	e8,490	9,330	7,100	6,010	10,400	1,800	360	457	1,480
30	7,980	7,040	e8,500	e8,590	---	6,290	6,780	11,700	1,770	314	524	1,340
31	8,070	---	e8,460	e9,750	---	6,930	---	8,290	---	277	539	---
Total	263,890	227,310	222,270	213,020	238,550	254,410	209,990	192,900	107,700	27,029	12,334	29,383
Mean	8,513	7,577	7,170	6,872	8,226	8,207	7,000	6,223	3,590	872	398	979
Max	12,500	8,600	9,590	9,750	9,950	10,900	11,700	11,700	6,940	1,780	576	1,640
Min	6,790	6,210	4,430	3,970	4,820	6,290	4,870	3,930	1,770	277	237	360
Ac-ft	523,400	450,900	440,900	422,500	473,200	504,600	416,500	382,600	213,600	53,610	24,460	58,280

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2012, BY WATER YEAR (WY)

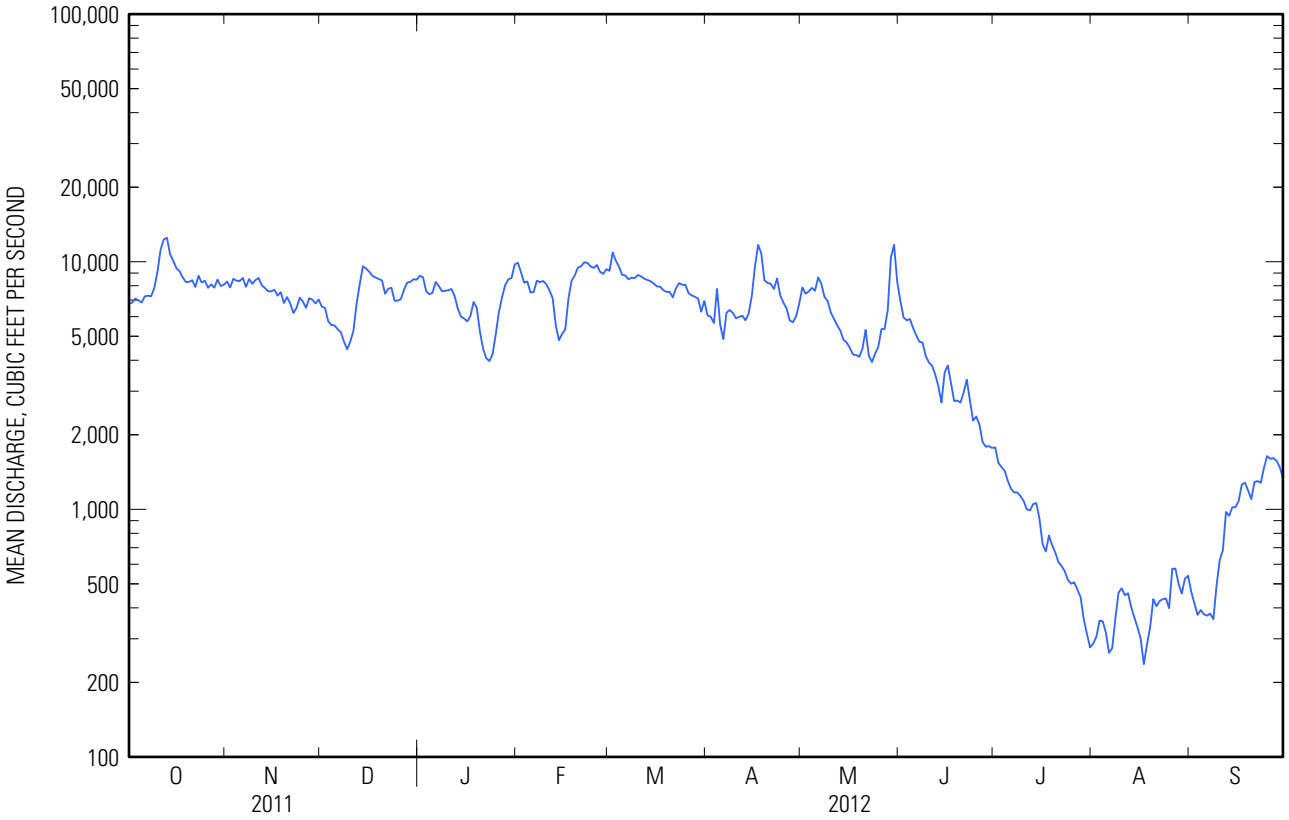
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	5,574	5,818	5,208	4,876	7,182	9,073	8,496	8,658	11,940	6,755	4,630	4,383
Max	11,290	9,403	8,778	9,022	12,480	23,190	15,470	19,330	43,630	31,980	10,730	9,825
(WY)	(2008)	(1999)	(1998)	(1998)	(2007)	(1993)	(1998)	(1995)	(2010)	(1993)	(1996)	(1993)
Min	2,124	3,148	2,879	1,896	3,621	4,833	4,081	2,969	2,064	872	398	979
(WY)	(2004)	(2004)	(1990)	(2004)	(2003)	(2006)	(2004)	(1989)	(2006)	(2012)	(2012)	(2012)

06801000 Platte River near Ashland, Nebr.—Continued

SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1989 - 2012	
Annual total	3,877,000		1,998,786			
Annual mean	10,620		5,461		6,872	
Highest annual mean					11,820	1993
Lowest annual mean					3,604	2006
Highest daily mean	32,700	Jun 21	12,500	Oct 13	110,000	Mar 10, 1993
Lowest daily mean	4,430	Dec 9	237	Aug 17	237	Aug 17, 2012
Annual seven-day minimum	5,040	Dec 5	308	Aug 1	308	Aug 1, 2012
Maximum peak flow			[a]14,600	May 30	[b]130,000	Mar 10, 1993
Maximum peak stage			[c]18.33	Jan 28	[c]23.05	Feb 20, 1997
Annual runoff (ac-ft)	7,690,000		3,965,000		4,979,000	
10 percent exceeds	17,500		8,800		11,400	
50 percent exceeds	8,840		6,480		5,770	
90 percent exceeds	6,560		464		2,230	

[a] Gage height, 17.16 ft.
[b] Estimated, includes overbank flow; gage height, 19.23 ft, backwater from ice.
[c] Backwater from ice.

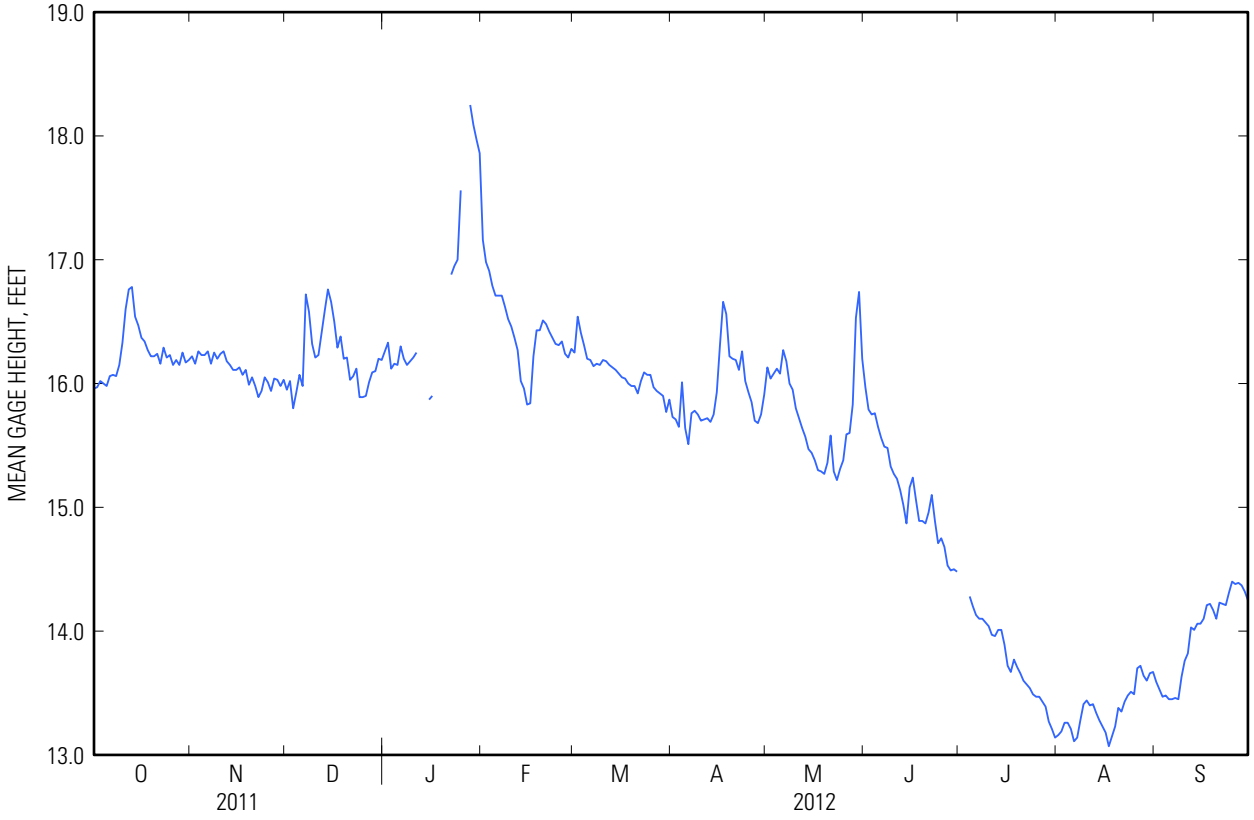


06801000 Platte River near Ashland, Nebr.—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	15.96	16.22	15.95	16.26	17.16	16.25	15.73	16.13	15.97	---	13.16	13.59
2	15.97	16.16	16.02	16.33	16.98	16.54	15.71	16.04	15.79	---	13.19	13.53
3	16.02	16.26	15.80	16.12	16.91	16.41	15.65	16.08	15.75	---	13.26	13.47
4	16.00	16.23	15.93	16.16	16.79	16.31	16.01	16.12	15.76	14.28	13.26	13.48
5	15.98	16.23	16.07	16.15	16.71	16.20	15.64	16.08	15.65	14.20	13.21	13.45
6	16.06	16.26	15.98	16.30	16.71	16.19	15.51	16.27	15.56	14.13	13.11	13.45
7	16.07	16.16	16.72	16.20	16.71	16.14	15.76	16.18	15.49	14.10	13.14	13.46
8	16.06	16.25	16.58	16.15	16.62	16.16	15.78	16.00	15.48	14.10	13.28	13.45
9	16.15	16.20	16.32	16.18	16.52	16.15	15.75	15.95	15.33	14.07	13.41	13.63
10	16.33	16.24	16.21	16.21	16.46	16.19	15.70	15.80	15.27	14.04	13.44	13.76
11	16.60	16.26	16.23	16.25	16.37	16.18	15.71	15.72	15.23	13.97	13.40	13.82
12	16.76	16.18	16.41	---	16.27	16.15	15.72	15.64	15.14	13.96	13.41	14.03
13	16.78	16.15	16.59	---	16.02	16.13	15.69	15.57	15.02	14.01	13.34	14.01
14	16.54	16.11	16.76	---	15.96	16.11	15.75	15.47	14.87	14.01	13.28	14.06
15	16.47	16.11	16.66	15.87	15.83	16.08	15.93	15.44	15.16	13.89	13.23	14.06
16	16.37	16.13	16.50	15.90	15.84	16.05	16.31	15.38	15.24	13.72	13.18	14.10
17	16.34	16.07	16.29	---	16.22	16.04	16.66	15.30	15.06	13.67	13.07	14.21
18	16.27	16.11	16.38	---	16.43	16.00	16.56	15.29	14.89	13.77	13.15	14.22
19	16.22	15.99	16.20	---	16.43	15.98	16.22	15.27	14.89	13.71	13.23	14.17
20	16.22	16.05	16.21	---	16.51	15.98	16.20	15.36	14.87	13.66	13.38	14.10
21	16.24	15.98	16.03	---	16.48	15.92	16.19	15.58	14.96	13.60	13.35	14.23
22	16.16	15.89	16.06	16.88	16.42	16.02	16.11	15.29	15.10	13.57	13.43	14.22
23	16.29	15.94	16.12	16.95	16.37	16.09	16.26	15.22	14.89	13.54	13.48	14.21
24	16.21	16.05	15.89	17.00	16.32	16.07	16.02	15.31	14.71	13.49	13.51	14.31
25	16.23	16.01	15.89	17.56	16.31	16.07	15.93	15.38	14.75	13.47	13.49	14.40
26	16.15	15.94	15.90	---	16.34	15.97	15.85	15.59	14.68	13.47	13.70	14.38
27	16.19	16.04	16.01	---	16.24	15.94	15.70	15.60	14.53	13.43	13.72	14.39
28	16.15	16.03	16.09	18.25	16.21	15.92	15.68	15.83	14.49	13.39	13.64	14.37
29	16.25	15.98	16.10	18.09	16.28	15.90	15.75	16.53	14.50	13.27	13.60	14.32
30	16.17	16.03	16.20	17.97	---	15.77	15.91	16.74	14.48	13.21	13.66	14.25
31	16.19	---	16.19	17.86	---	15.87	---	16.20	---	13.14	13.67	---
Mean	16.24	16.11	16.20	---	16.43	16.09	15.91	15.75	15.12	---	13.37	13.97
Max	16.78	16.26	16.76	---	17.16	16.54	16.66	16.74	15.97	---	13.72	14.40
Min	15.96	15.89	15.80	---	15.83	15.77	15.51	15.22	14.48	---	13.07	13.45

06801000 Platte River near Ashland, Nebr.—Continued



Water-Data Report 2012

06796500 Platte River near Leshara, Nebr.

Lower Platte Basin
Lower Platte Subbasin

LOCATION.--Lat 41°19′12″, long 96°24′14″ referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.34, T.16 N., R.9 E., Douglas County, NE, Hydrologic Unit 10200202, on left bank 25 ft downstream from bridge on Nebraska Highway 64, 1.5 mi southeast of Leshara.

DRAINAGE AREA.--Not determined.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--DAILY DISCHARGE--June 1994 to current year.

PERIOD OF RECORD.--DAILY GAGE HEIGHT--October 2009 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 1,143.86 ft above sea level. Prior to Oct. 18, 2002, about 200 ft downstream at same datum.

REMARKS.--Records fair except for the estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, groundwater withdrawals, diversions for irrigation, and return flow from irrigated areas.

06796500 Platte River near Leshara, Nebr.—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	5,490	6,850	6,170	e7,340	e8,110	7,470	5,660	7,170	4,260	821	242	384
2	5,760	6,440	e5,490	e6,960	e7,540	7,830	5,030	6,180	4,120	813	284	335
3	5,990	6,780	e5,100	e6,080	e7,480	7,560	5,560	6,550	4,560	834	306	329
4	5,990	6,610	e5,100	e6,530	e7,400	7,280	6,140	6,440	4,110	810	267	336
5	6,030	6,980	e5,030	e6,750	e6,990	7,420	4,470	6,440	3,800	614	212	366
6	6,430	7,040	e4,770	e7,020	e7,000	7,340	5,440	6,290	3,460	582	221	408
7	6,510	6,320	e4,490	e6,640	e7,200	7,290	5,810	6,130	3,430	597	259	443
8	6,550	6,530	e4,110	e6,640	e6,620	7,100	5,740	6,090	2,810	600	323	535
9	7,130	6,180	e3,790	e6,700	e6,640	7,400	5,210	5,820	2,600	560	377	707
10	8,910	6,260	e4,170	e6,720	e6,440	7,570	5,230	5,850	2,270	509	332	658
11	11,100	6,310	e4,790	e6,490	e5,960	7,350	5,190	5,180	2,190	555	357	925
12	12,300	6,170	e5,890	e5,330	e5,280	7,430	4,610	4,920	1,960	601	328	692
13	11,500	6,280	e7,110	e5,260	e4,740	7,450	5,000	4,010	1,900	e662	288	757
14	9,870	6,180	e7,630	e5,170	e4,230	7,330	4,870	3,960	1,460	e458	263	947
15	8,960	6,180	e7,580	e4,880	e4,480	7,300	6,120	4,000	2,050	e316	248	824
16	8,630	6,060	e7,340	e4,930	e4,780	7,040	7,300	3,220	1,960	e268	205	949
17	8,220	6,300	e6,520	e5,300	e6,260	7,490	8,960	3,600	1,650	e369	241	1,020
18	7,850	6,560	e7,010	e5,840	e7,600	7,080	7,830	3,380	1,560	376	261	857
19	7,730	6,160	6,800	e5,460	e7,960	6,860	6,390	3,280	1,670	369	352	979
20	7,840	6,260	e6,700	e4,490	e8,250	6,360	6,100	3,600	1,610	348	306	820
21	8,250	5,890	e5,560	e3,810	e8,300	e6,310	5,840	2,860	1,840	341	354	1,160
22	8,040	5,410	e6,300	e3,570	e7,960	e6,870	5,500	2,730	1,810	334	390	953
23	8,360	6,530	e5,970	e3,460	e7,650	7,540	6,430	2,760	1,580	333	406	1,050
24	7,980	6,970	e5,210	e3,730	e7,270	7,490	5,190	3,040	1,340	340	331	1,170
25	7,850	6,840	e5,680	e4,430	7,320	7,150	5,390	3,170	1,520	340	394	1,220
26	7,420	6,630	e6,060	e5,370	7,460	6,780	4,840	3,810	1,390	330	457	1,230
27	7,490	6,870	6,190	e6,160	7,290	6,500	4,050	3,600	1,170	317	428	1,110
28	7,340	6,620	e6,540	e6,480	7,200	6,450	4,670	4,250	1,140	275	368	1,050
29	7,500	6,480	e6,640	e6,790	7,730	5,740	5,370	6,210	1,140	230	478	962
30	7,150	6,000	e7,090	e7,120	---	6,170	6,800	5,570	1,100	201	472	871
31	6,840	---	e7,160	e7,860	---	5,610	---	4,680	---	200	414	---
Total	243,010	192,690	183,990	179,310	199,140	218,560	170,740	144,790	67,460	14,303	10,164	24,047
Mean	7,839	6,423	5,935	5,784	6,867	7,050	5,691	4,671	2,249	461	328	802
Max	12,300	7,040	7,630	7,860	8,300	7,830	8,960	7,170	4,560	834	478	1,230
Min	5,490	5,410	3,790	3,460	4,230	5,610	4,050	2,730	1,100	200	205	329
Ac-ft	482,000	382,200	364,900	355,700	395,000	433,500	338,700	287,200	133,800	28,370	20,160	47,700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2012, BY WATER YEAR (WY)

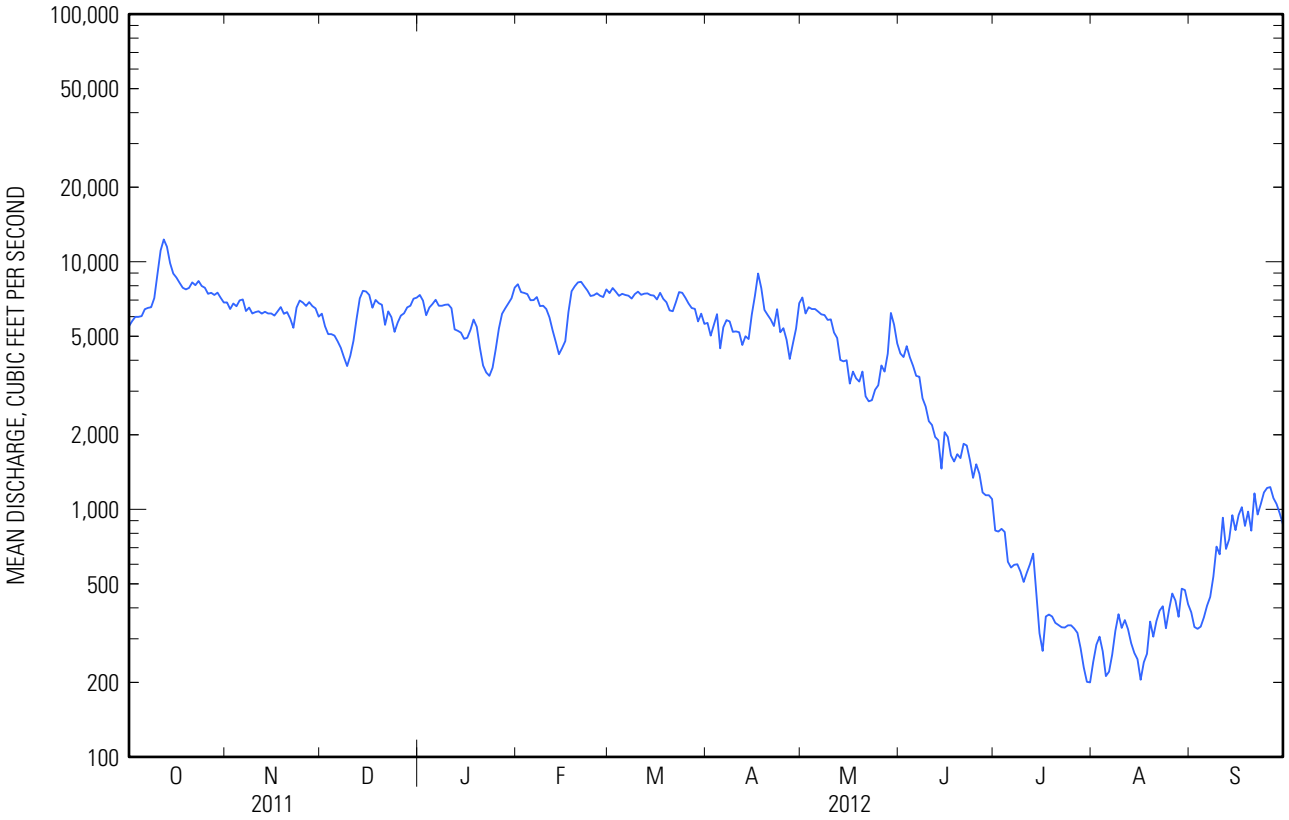
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	4,481	4,705	4,279	4,107	5,907	6,197	6,256	6,339	8,414	4,246	3,307	3,381
Max	7,839	7,784	6,762	7,552	10,040	9,325	11,300	10,650	24,560	10,810	7,163	6,793
(WY)	(2012)	(1998)	(1998)	(1998)	(1997)	(2010)	(1998)	(1995)	(2010)	(2011)	(1996)	(1996)
Min	1,924	2,324	1,984	1,276	2,984	4,079	3,054	1,820	1,212	461	328	802
(WY)	(2004)	(2004)	(2004)	(2004)	(2002)	(2002)	(2004)	(2006)	(2006)	(2012)	(2012)	(2012)

06796500 Platte River near Leshara, Nebr.—Continued

SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1994 - 2012	
Annual total	2,988,960		1,648,204			
Annual mean	8,189		4,503		5,118	
Highest annual mean					7,784	2011
Lowest annual mean					2,703	2004
Highest daily mean	23,500	Jun 22	12,300	Oct 12	41,400	Jun 15, 2010
Lowest daily mean	2,820	Feb 27	200	Jul 31	199	Aug 3, 2006
Annual seven-day minimum	3,970	Jan 2	245	Jul 30	245	Jul 30, 2012
Maximum peak flow			[a]13,700	Oct 12	[b]46,200	Jun 11, 2010
Maximum peak stage			[c]6.46	Jan 28	[c]11.84	Feb 9, 1996
Annual runoff (ac-ft)	5,929,000		3,269,000		3,708,000	
10 percent exceeds	12,200		7,490		8,620	
50 percent exceeds	7,340		5,400		4,500	
90 percent exceeds	5,130		353		1,700	

[a] Gage Height, 5.93 ft.
[b] Gage height, 7.95 ft.
[c] Backwater from ice.

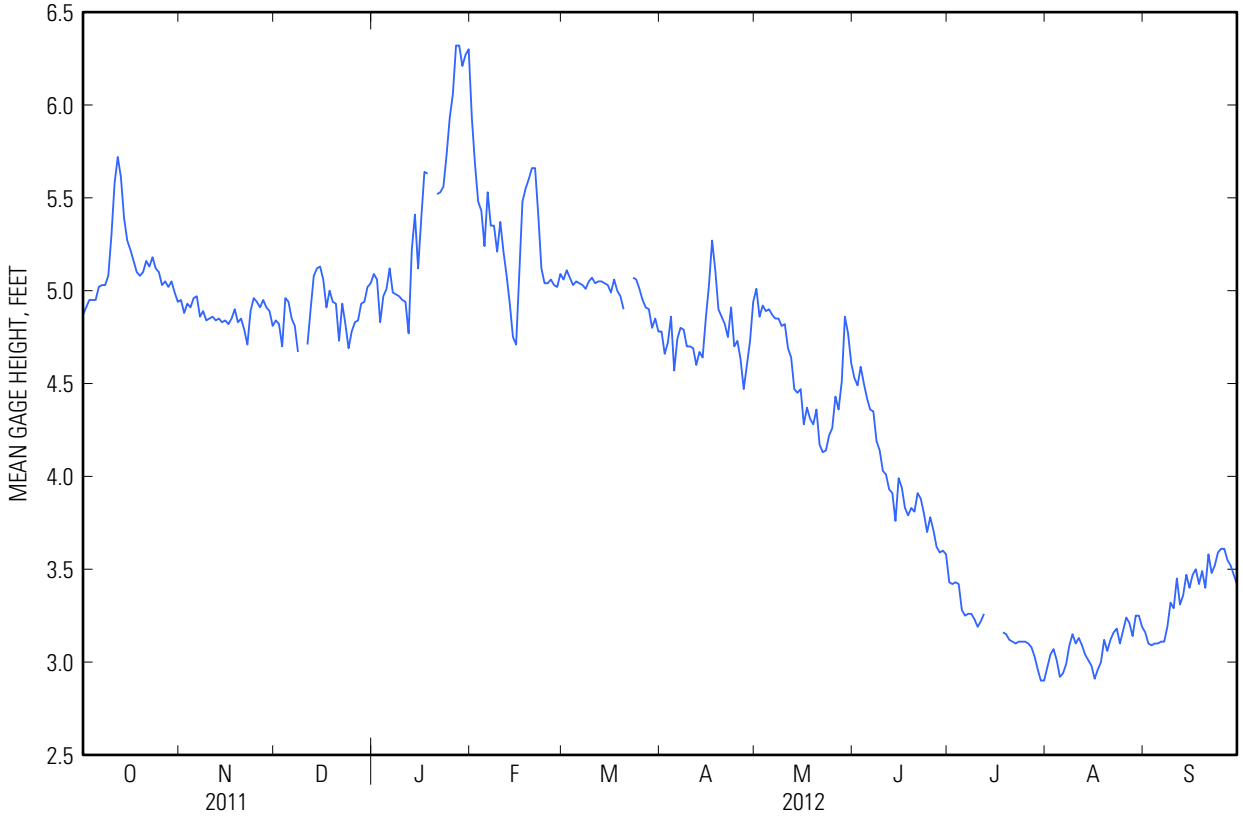


06796500 Platte River near Leshara, Nebr.—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4.87	4.95	4.84	5.09	5.93	5.06	4.78	5.01	4.53	3.43	2.97	3.16
2	4.91	4.88	4.82	5.06	5.68	5.11	4.66	4.86	4.49	3.42	3.04	3.10
3	4.95	4.93	4.70	4.83	5.48	5.07	4.72	4.92	4.59	3.43	3.07	3.09
4	4.95	4.91	4.96	4.97	5.43	5.03	4.86	4.89	4.50	3.42	3.01	3.10
5	4.95	4.96	4.94	5.01	5.24	5.05	4.57	4.90	4.42	3.28	2.92	3.10
6	5.02	4.97	4.85	5.12	5.53	5.04	4.74	4.87	4.36	3.25	2.94	3.11
7	5.03	4.86	4.81	4.99	5.35	5.03	4.80	4.85	4.35	3.26	2.99	3.11
8	5.03	4.89	4.67	4.98	5.35	5.01	4.79	4.85	4.19	3.26	3.09	3.19
9	5.08	4.84	---	4.97	5.21	5.05	4.70	4.81	4.14	3.23	3.15	3.32
10	5.30	4.85	---	4.95	5.37	5.07	4.70	4.82	4.03	3.19	3.10	3.29
11	5.58	4.86	4.71	4.94	5.21	5.04	4.69	4.69	4.01	3.22	3.13	3.45
12	5.72	4.84	4.90	4.77	5.08	5.05	4.60	4.64	3.93	3.26	3.09	3.31
13	5.61	4.85	5.08	5.22	4.93	5.05	4.67	4.47	3.91	---	3.04	3.36
14	5.39	4.83	5.12	5.41	4.75	5.04	4.64	4.45	3.76	---	3.01	3.47
15	5.27	4.84	5.13	5.12	4.71	5.03	4.85	4.47	3.99	---	2.98	3.40
16	5.22	4.82	5.06	5.39	5.09	4.99	5.03	4.28	3.94	---	2.91	3.47
17	5.16	4.85	4.91	5.64	5.48	5.06	5.27	4.37	3.83	---	2.96	3.50
18	5.10	4.90	5.00	5.63	5.55	5.00	5.11	4.31	3.79	3.16	3.00	3.42
19	5.08	4.83	4.94	---	5.60	4.97	4.90	4.28	3.83	3.15	3.12	3.49
20	5.10	4.85	4.93	---	5.66	4.90	4.86	4.36	3.81	3.12	3.06	3.40
21	5.16	4.79	4.73	5.52	5.66	---	4.82	4.17	3.91	3.11	3.12	3.58
22	5.13	4.71	4.93	5.53	5.41	---	4.75	4.13	3.88	3.10	3.16	3.48
23	5.18	4.89	4.82	5.56	5.12	5.07	4.91	4.14	3.80	3.11	3.18	3.52
24	5.12	4.96	4.69	5.73	5.04	5.06	4.70	4.22	3.70	3.11	3.10	3.59
25	5.10	4.94	4.78	5.93	5.04	5.01	4.73	4.26	3.78	3.11	3.17	3.61
26	5.03	4.91	4.83	6.06	5.06	4.95	4.63	4.43	3.71	3.10	3.24	3.61
27	5.05	4.95	4.84	6.32	5.03	4.91	4.47	4.36	3.62	3.08	3.21	3.55
28	5.02	4.91	4.93	6.32	5.02	4.90	4.60	4.51	3.59	3.03	3.14	3.52
29	5.05	4.89	4.94	6.21	5.09	4.80	4.73	4.86	3.60	2.96	3.25	3.47
30	4.99	4.81	5.02	6.27	---	4.85	4.94	4.77	3.58	2.90	3.25	3.42
31	4.94	---	5.04	6.30	---	4.78	---	4.61	---	2.90	3.19	---
Mean	5.13	4.88	---	---	5.28	---	4.77	4.57	3.99	---	3.08	3.37
Max	5.72	4.97	---	---	5.93	---	5.27	5.01	4.59	---	3.25	3.61
Min	4.87	4.71	---	---	4.71	---	4.47	4.13	3.58	---	2.91	3.09

06796500 Platte River near Leshara, Nebr.—Continued



Appendix C
Monitoring Well Trend Graphs

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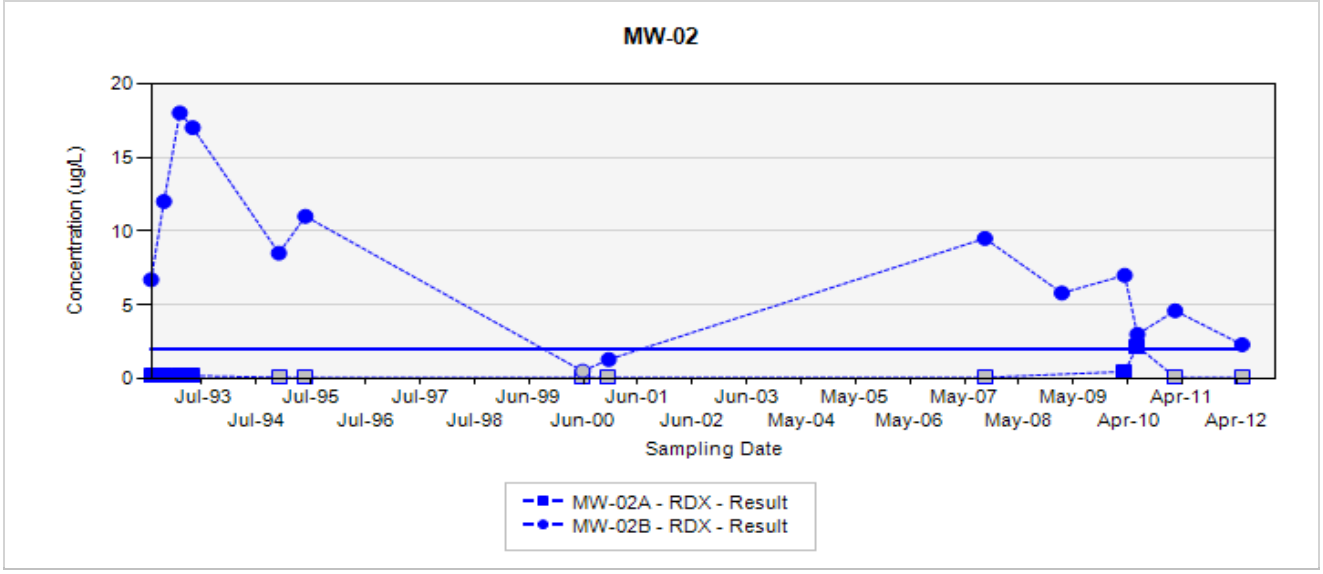
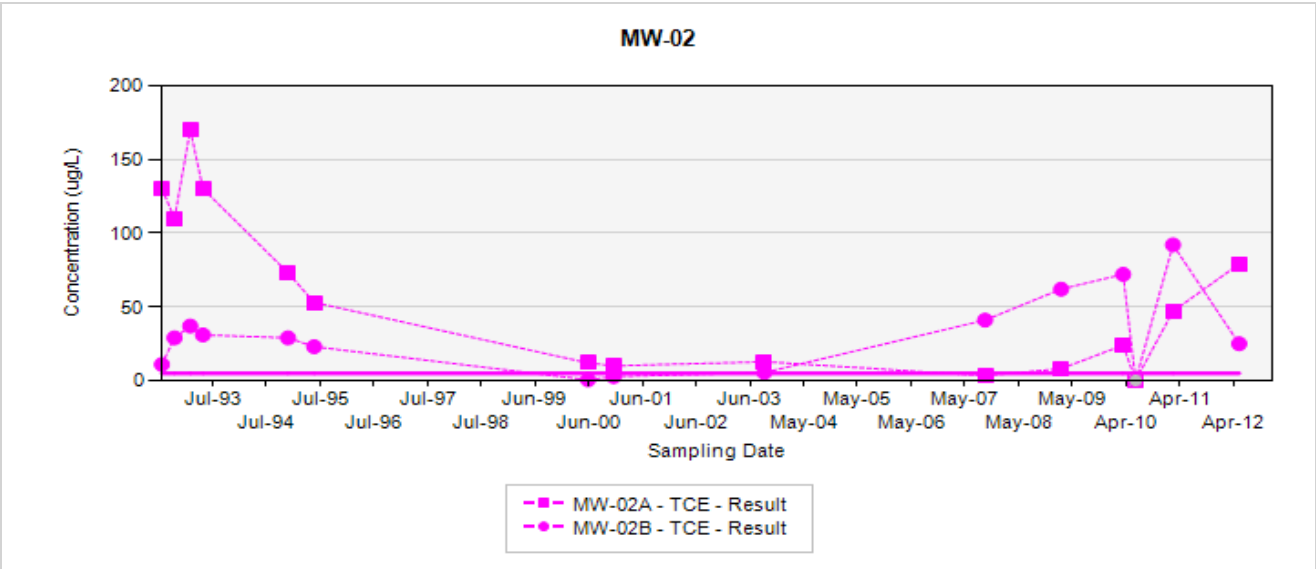
Appendix C
Monitoring Well Concentration Trend Charts Over Time





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Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
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In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

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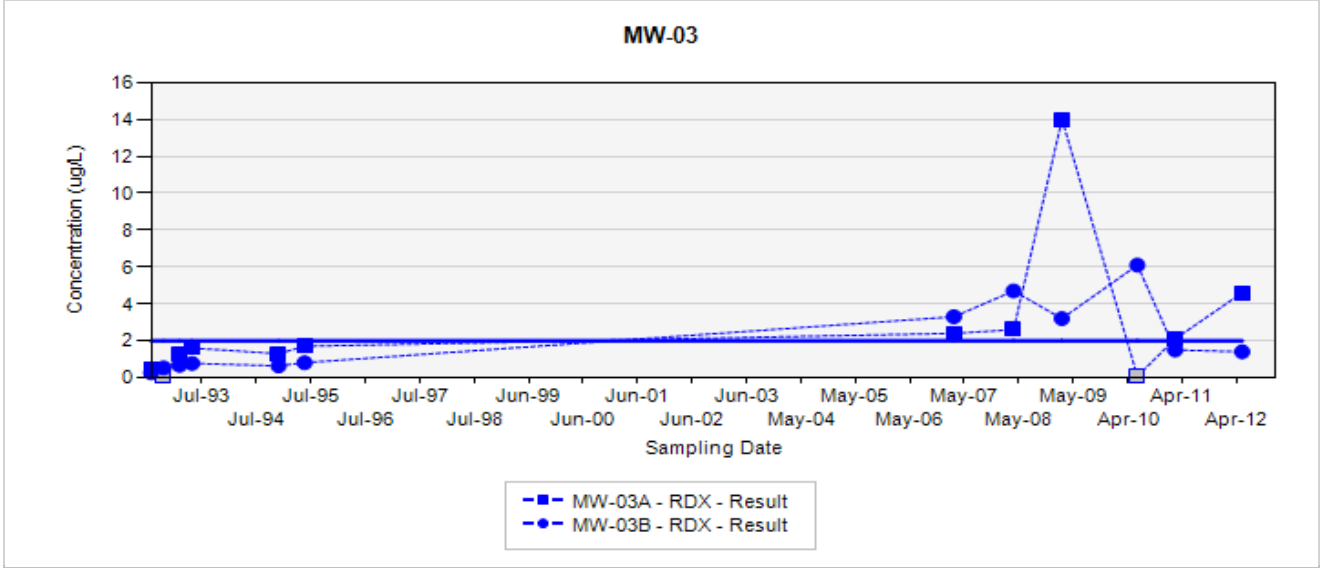

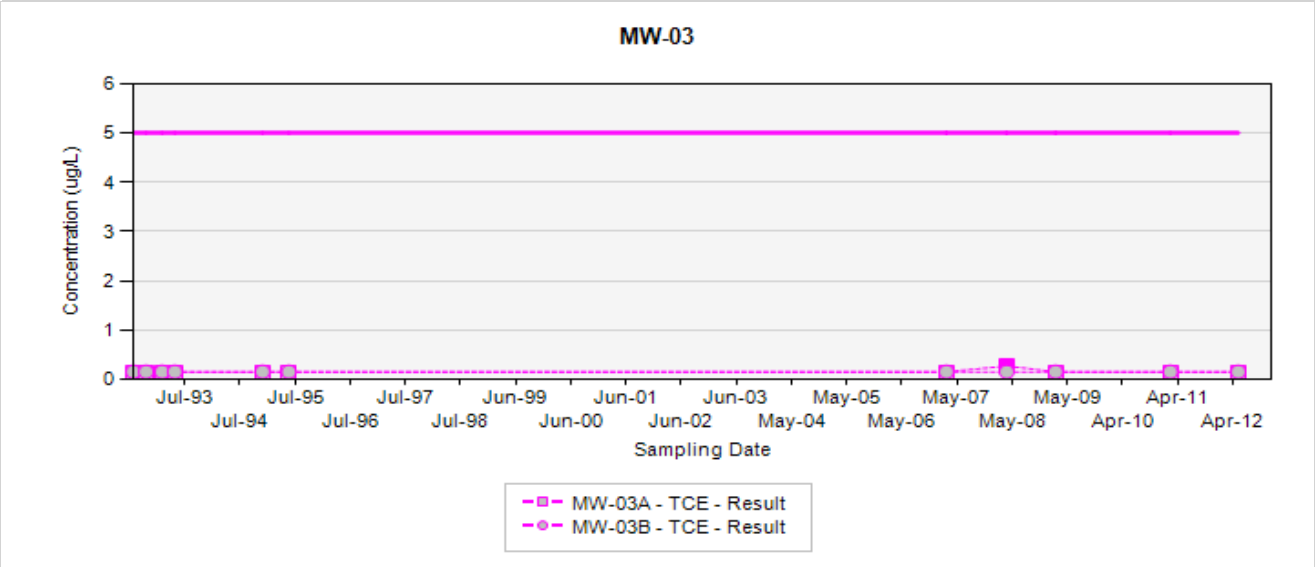

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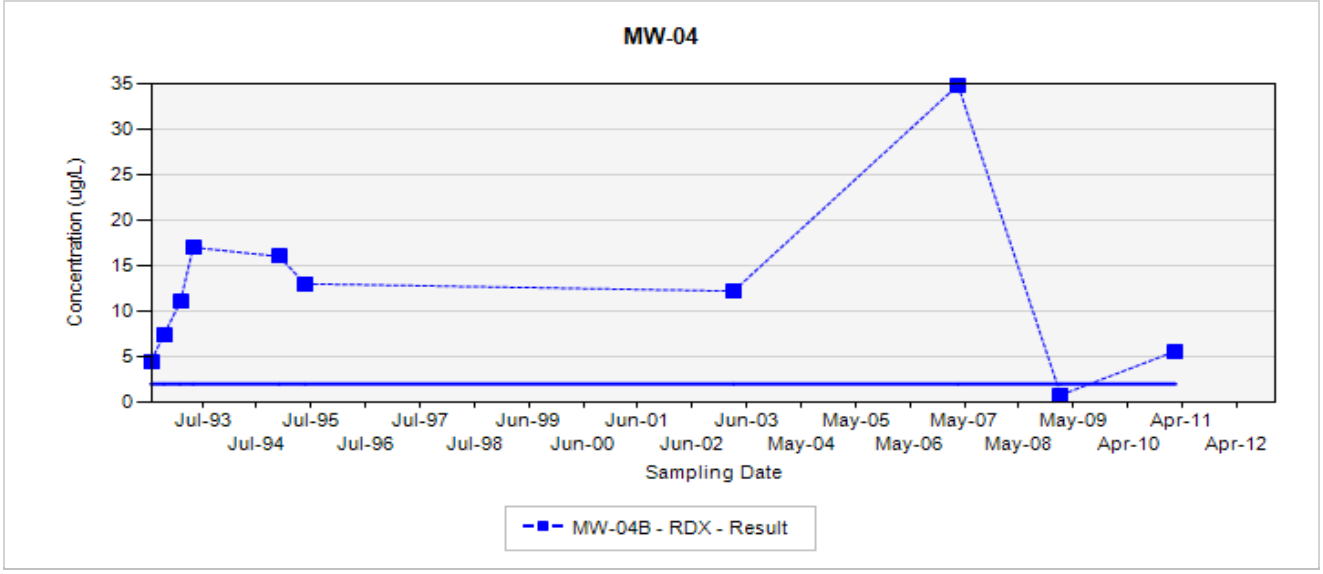

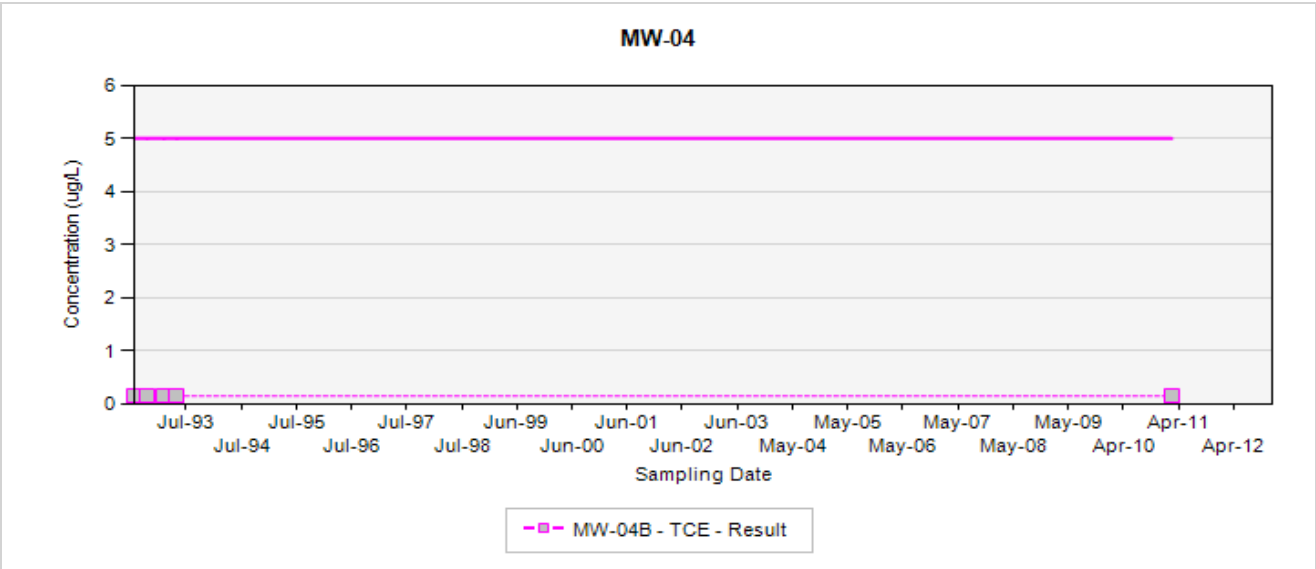

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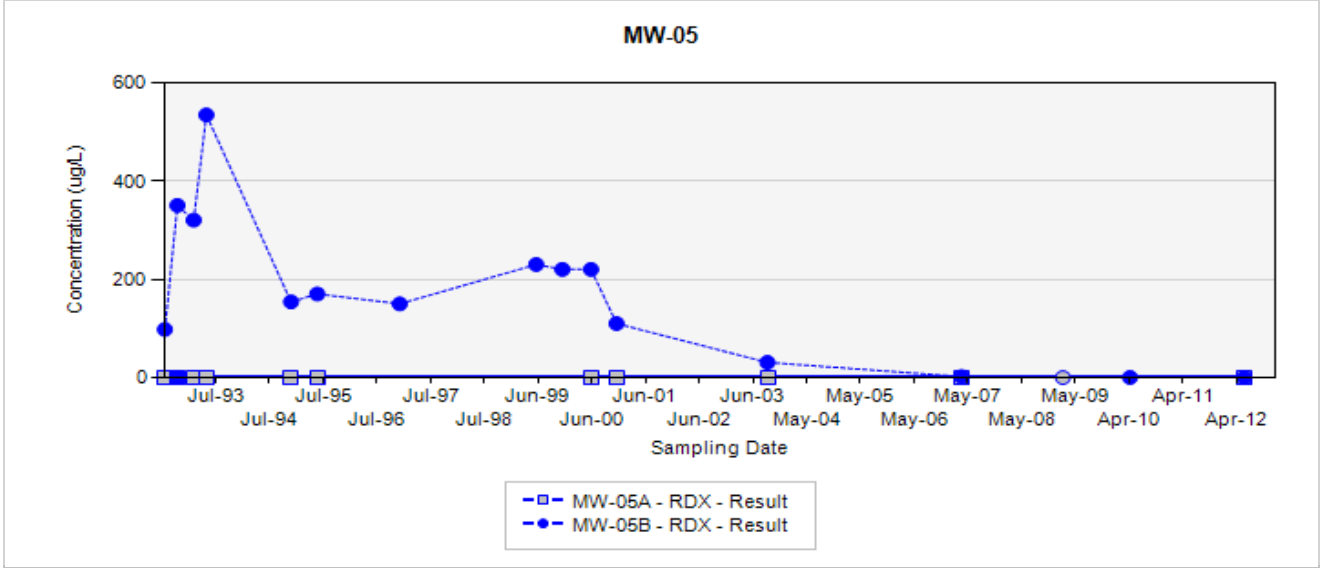

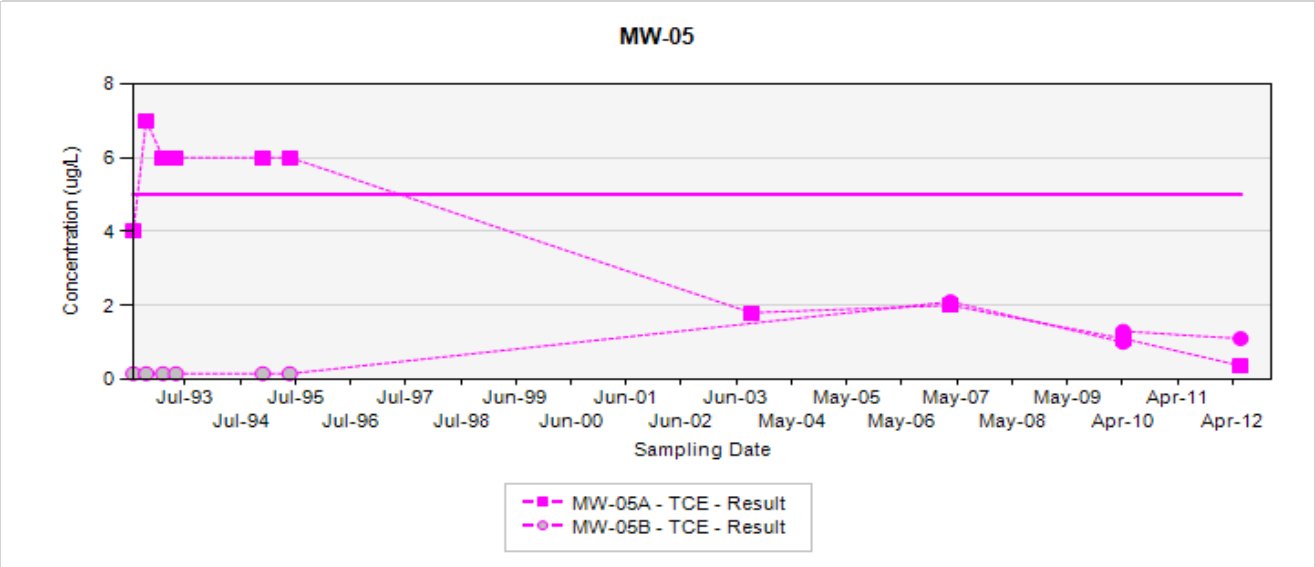

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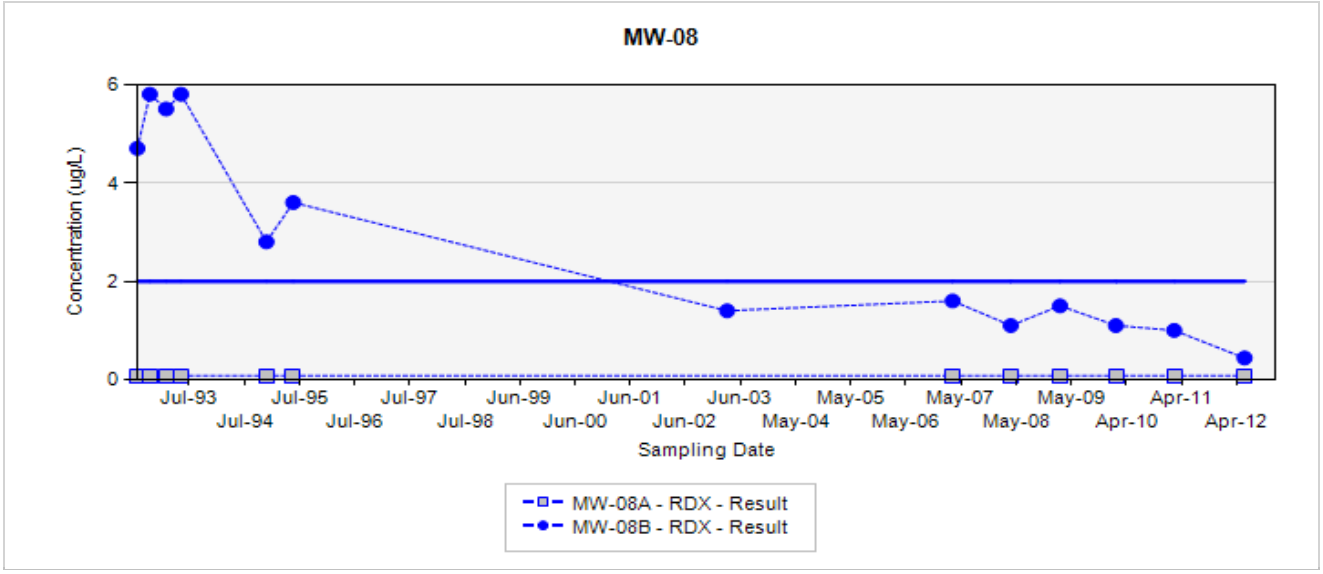

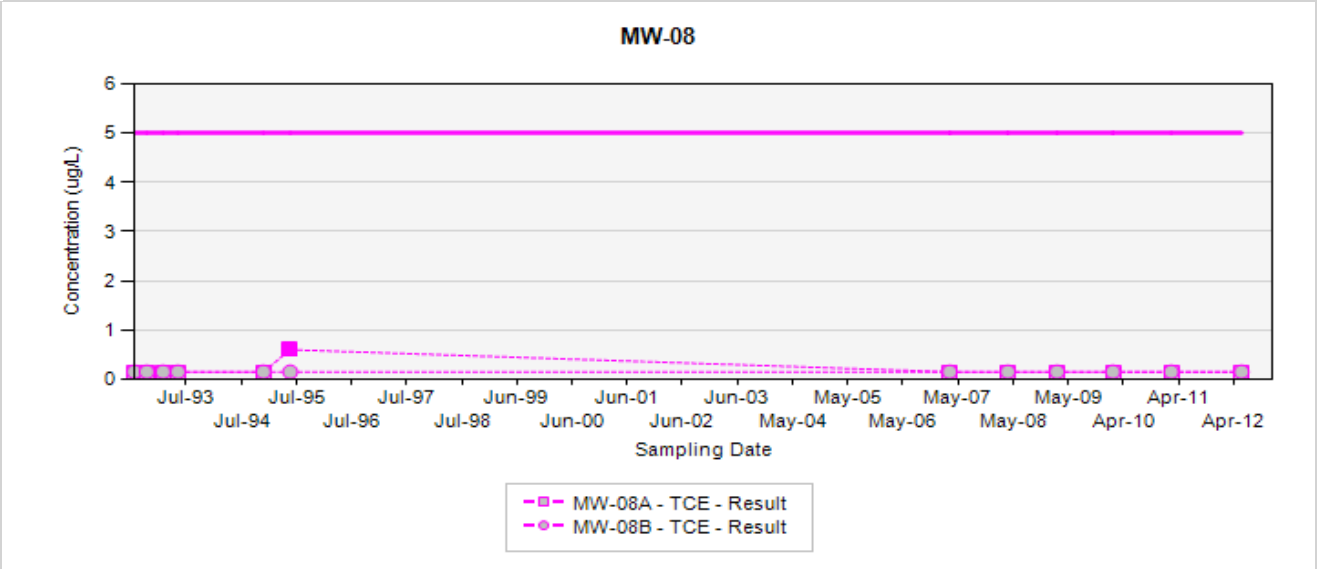

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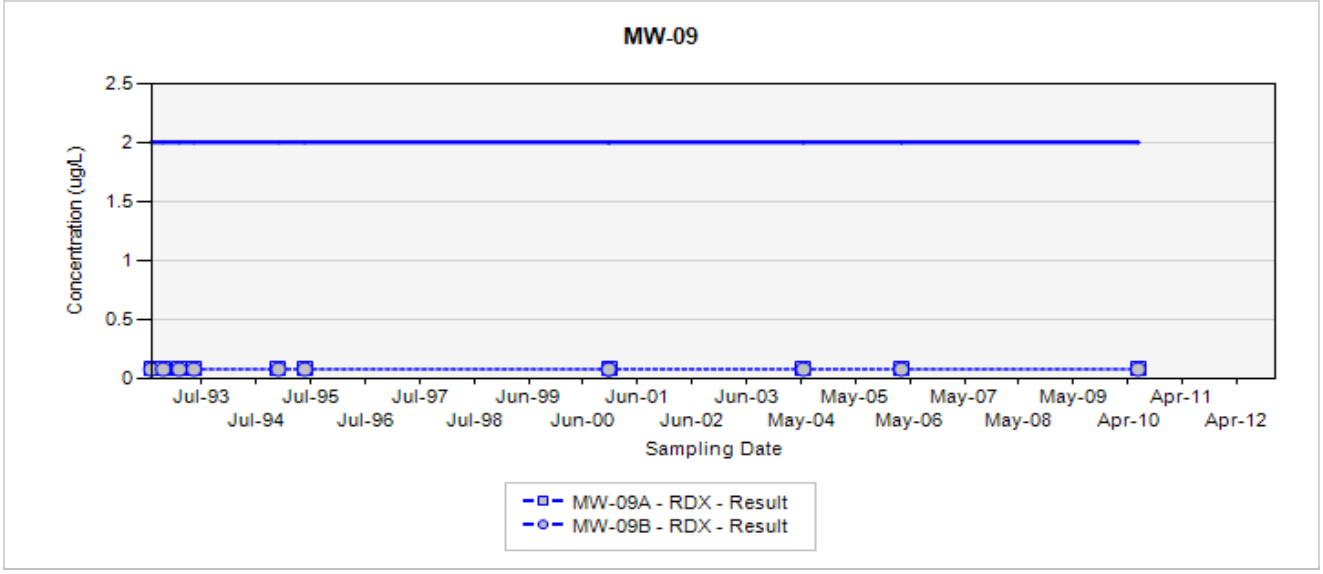

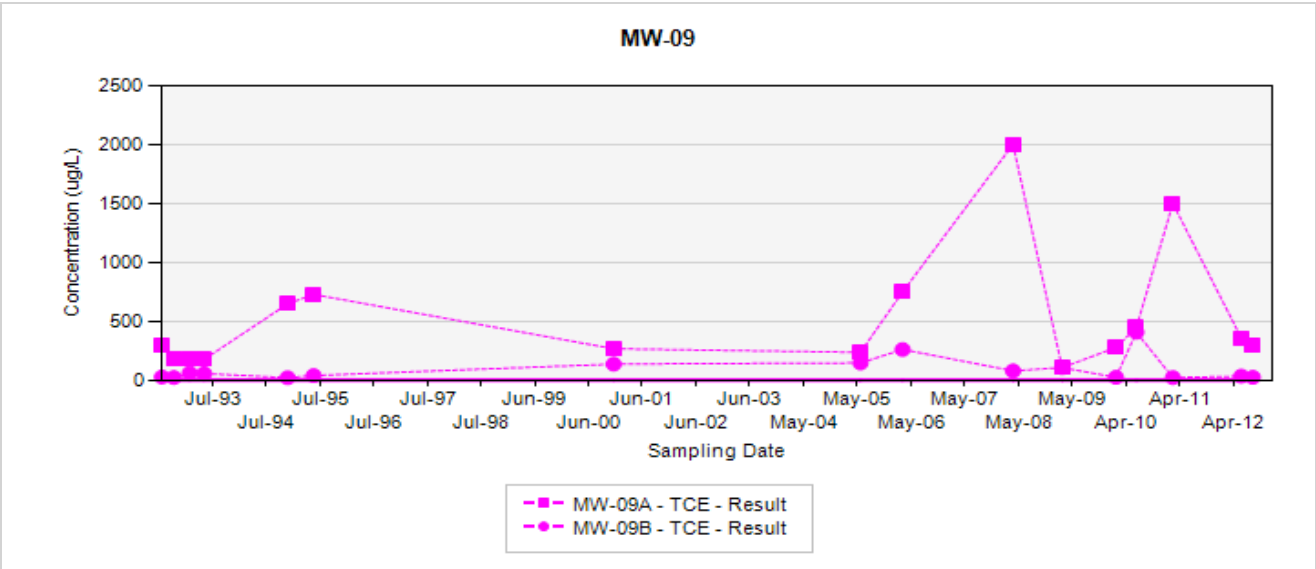

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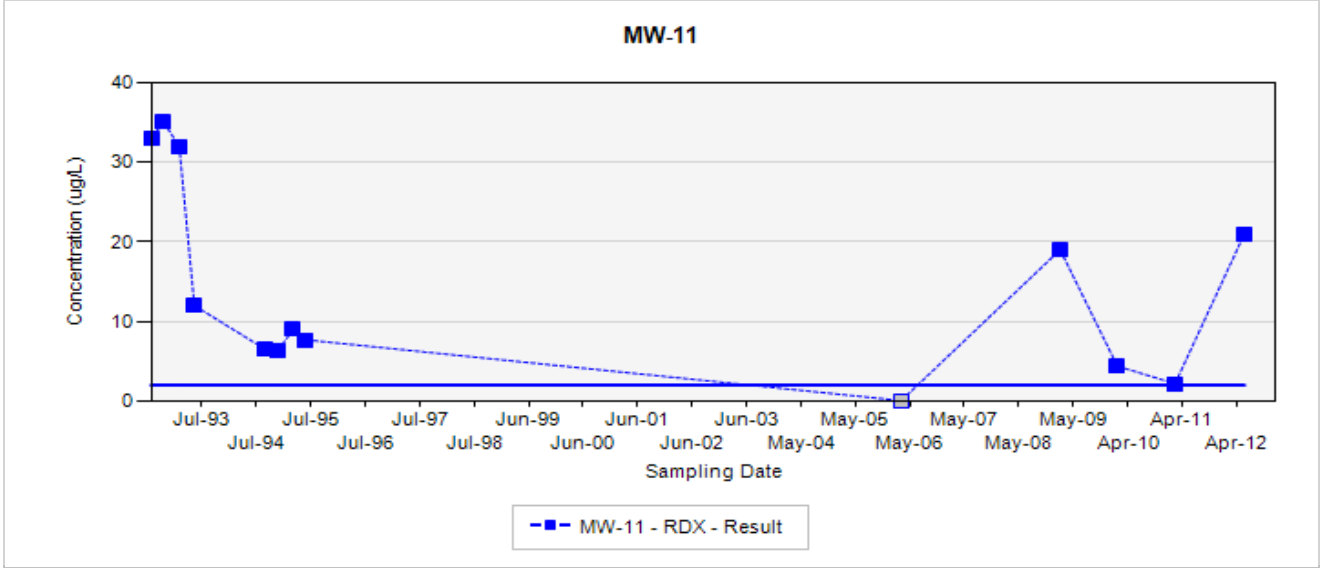

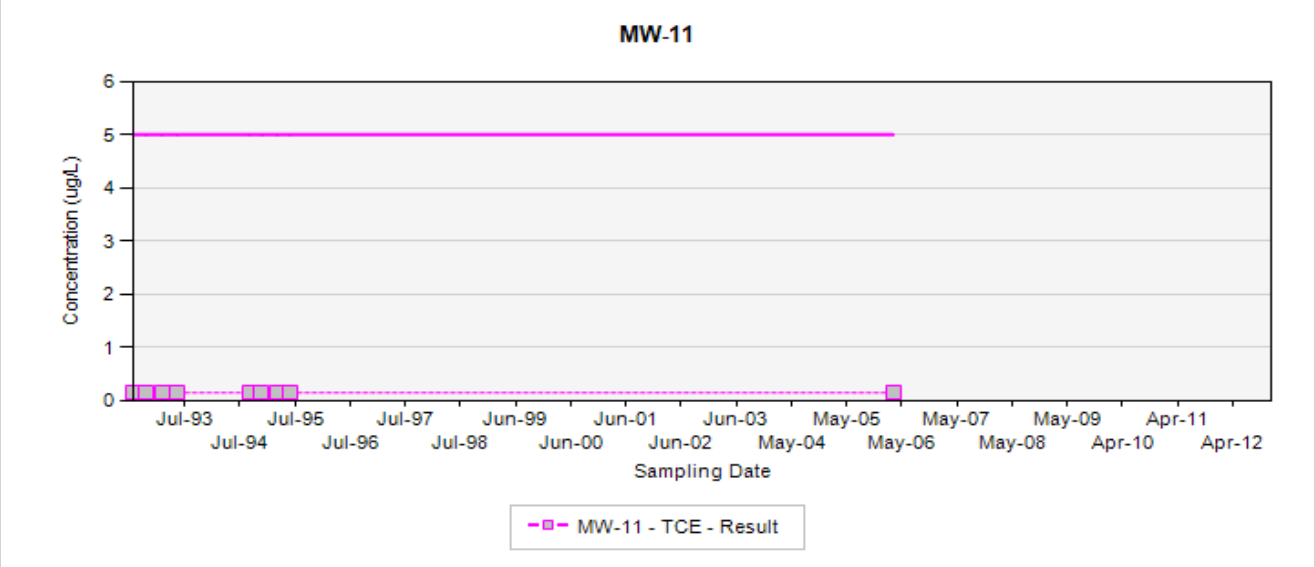

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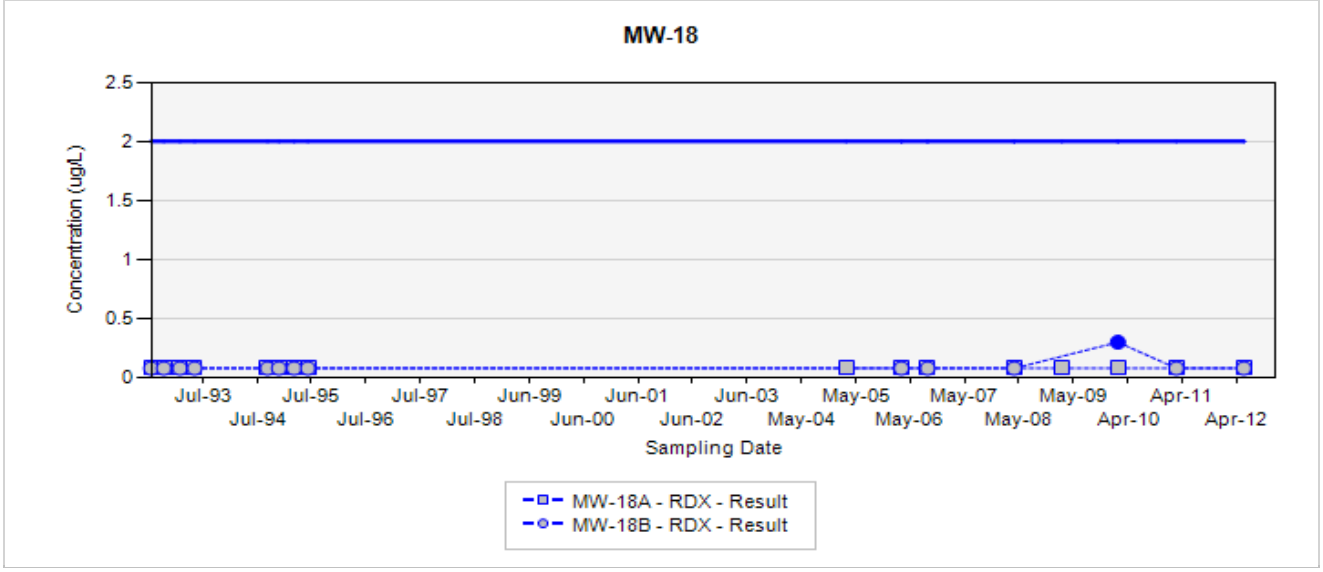

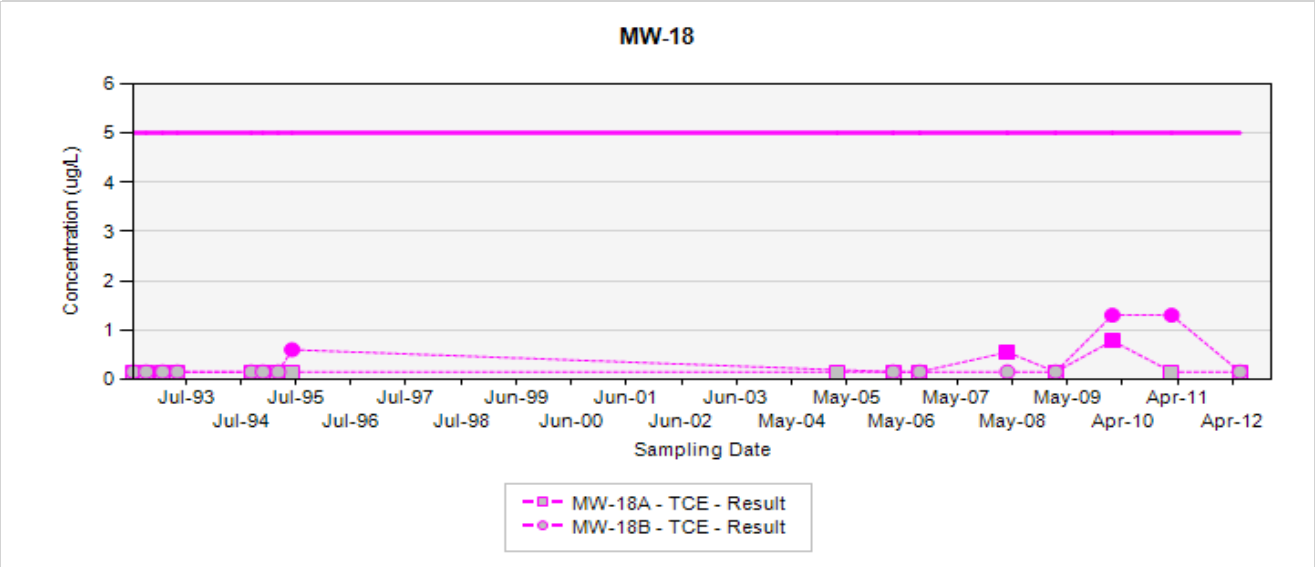

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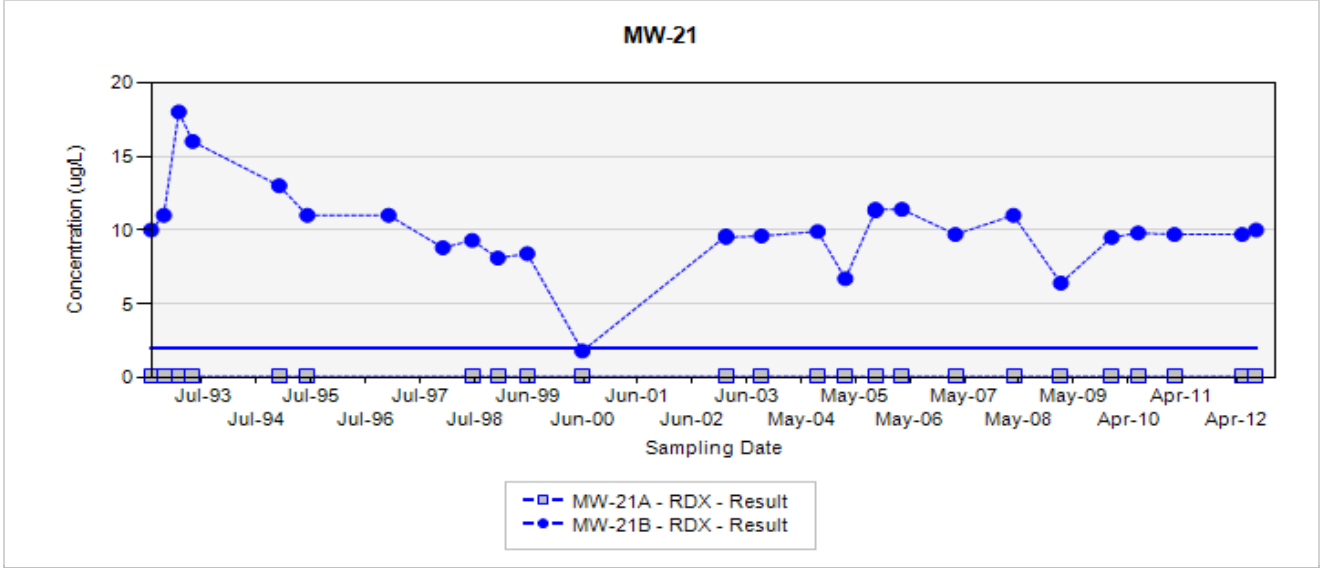

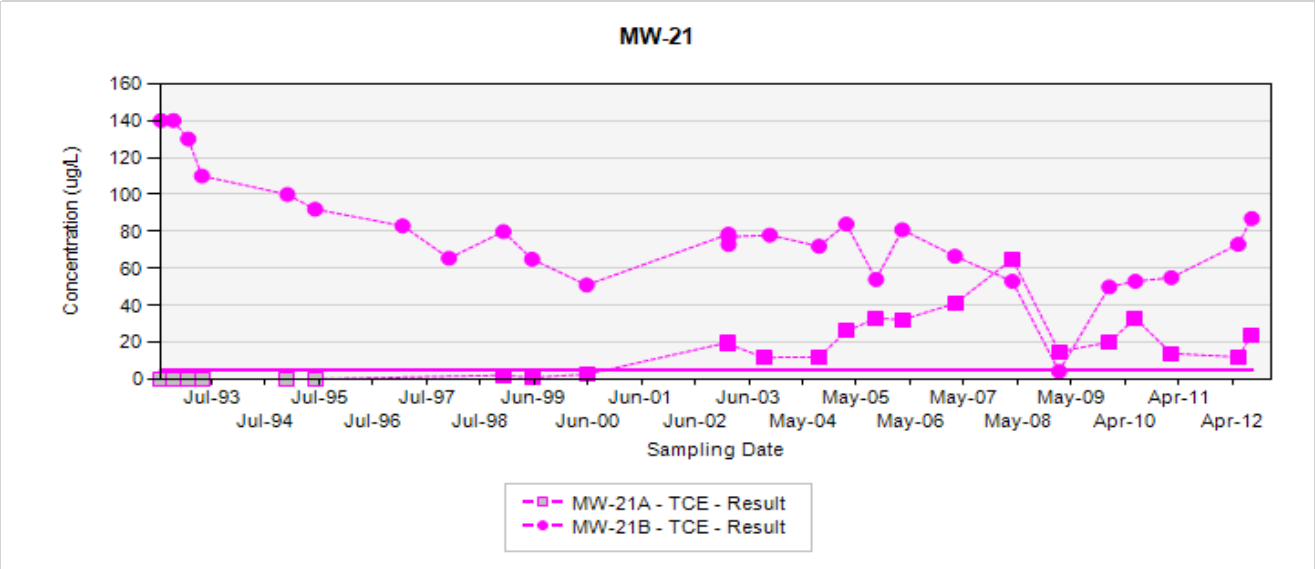

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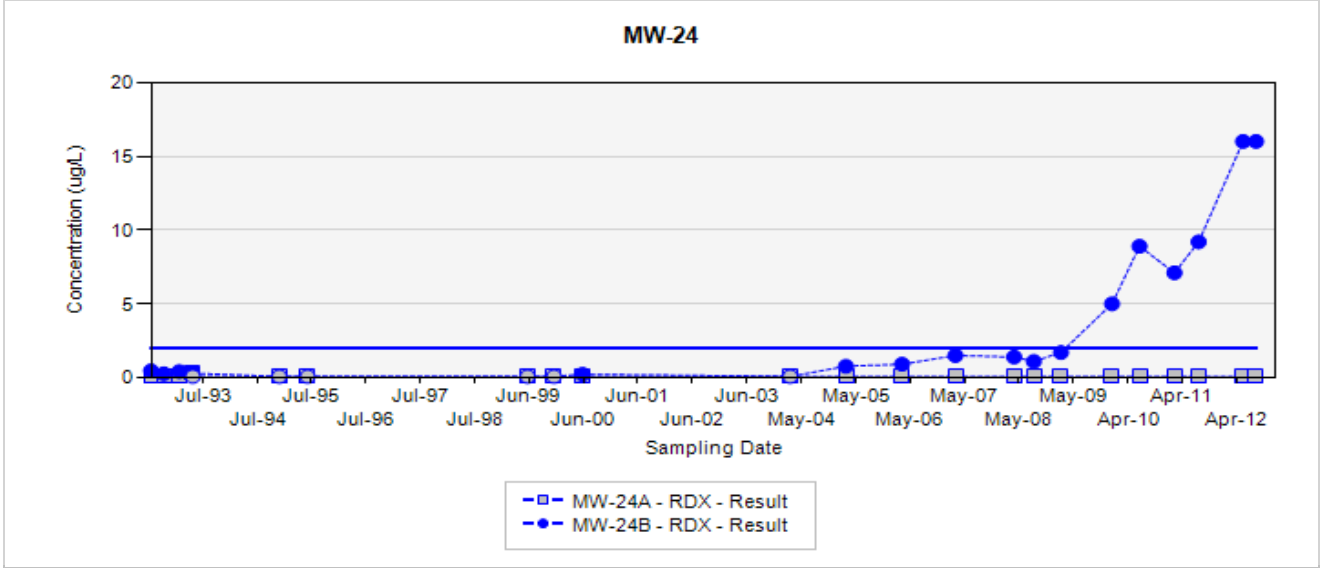

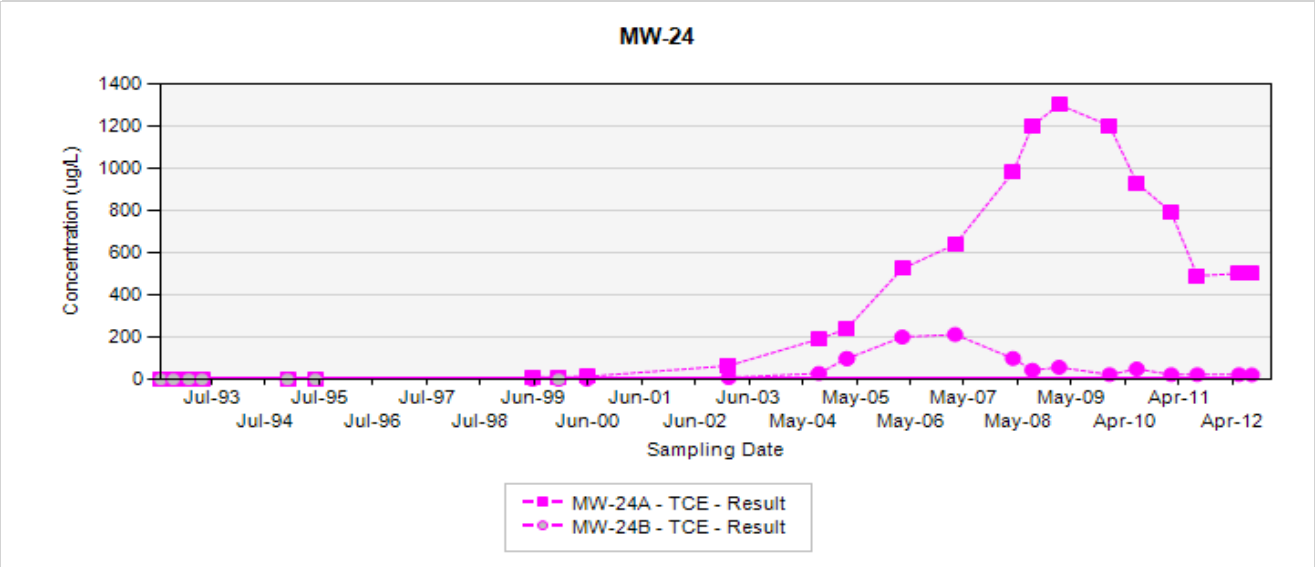

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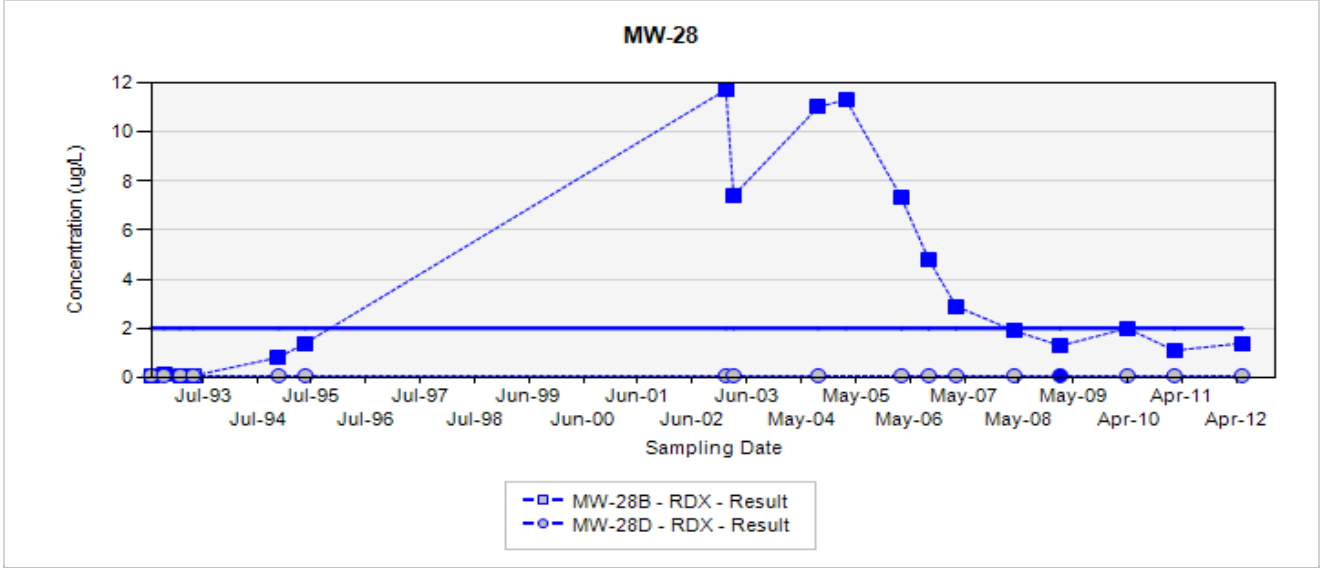

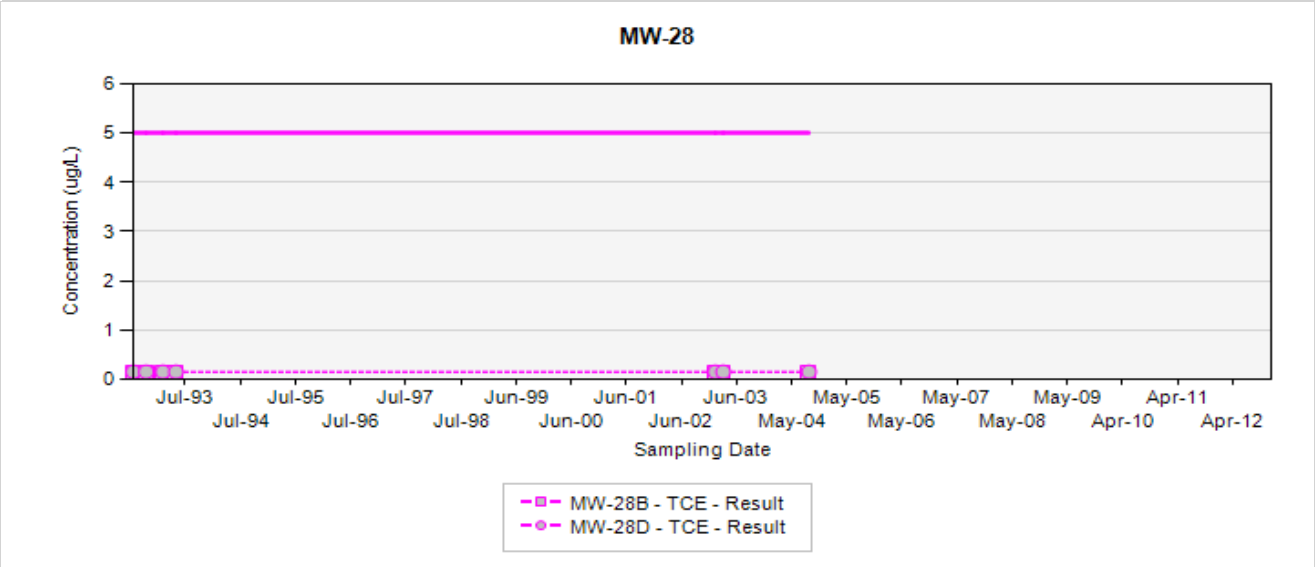

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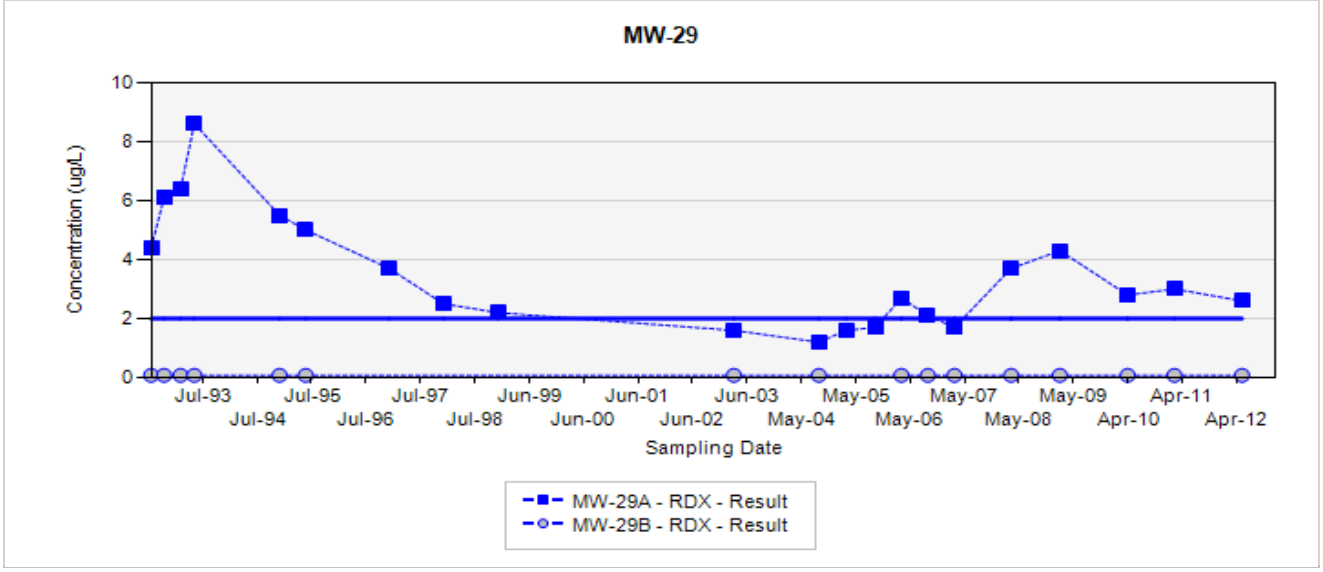

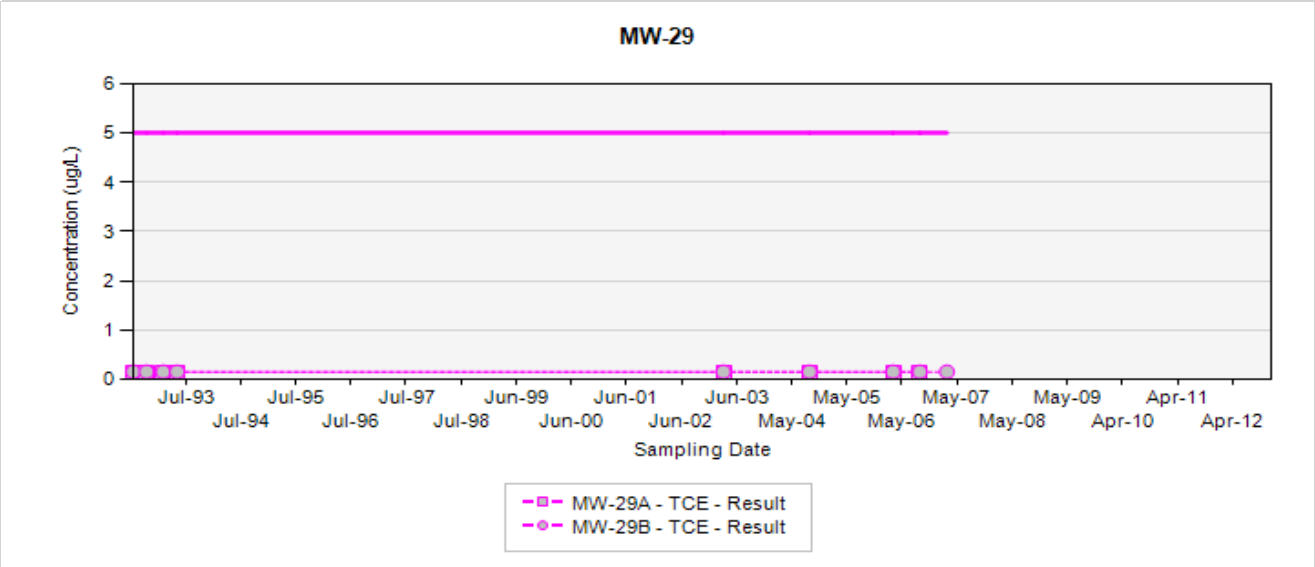

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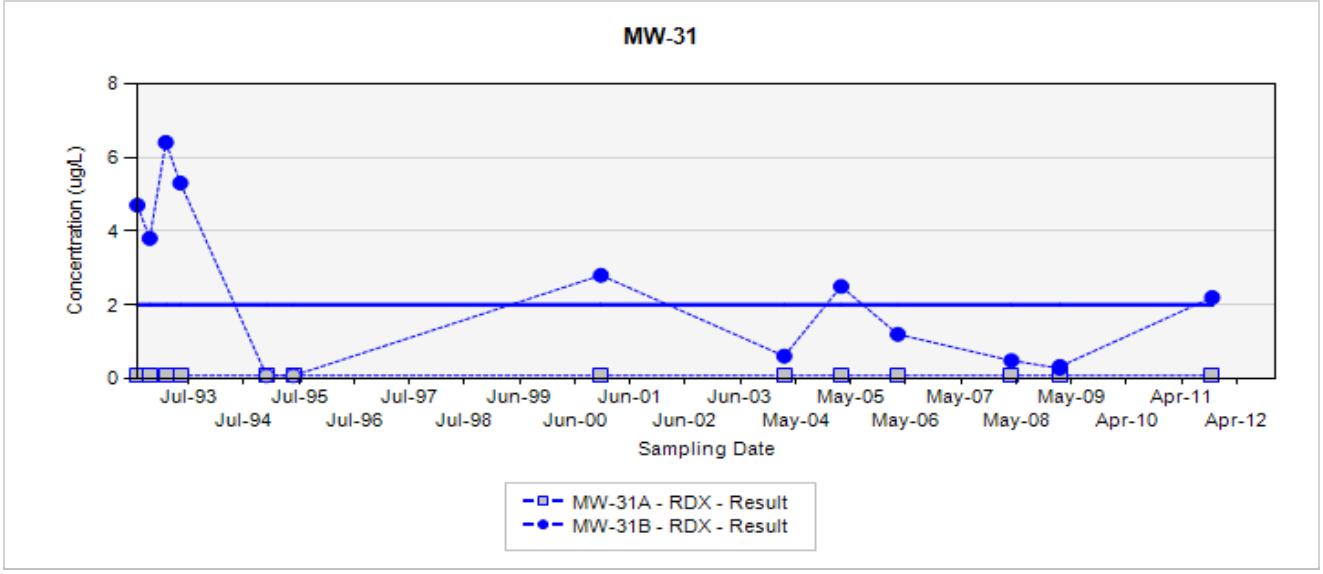

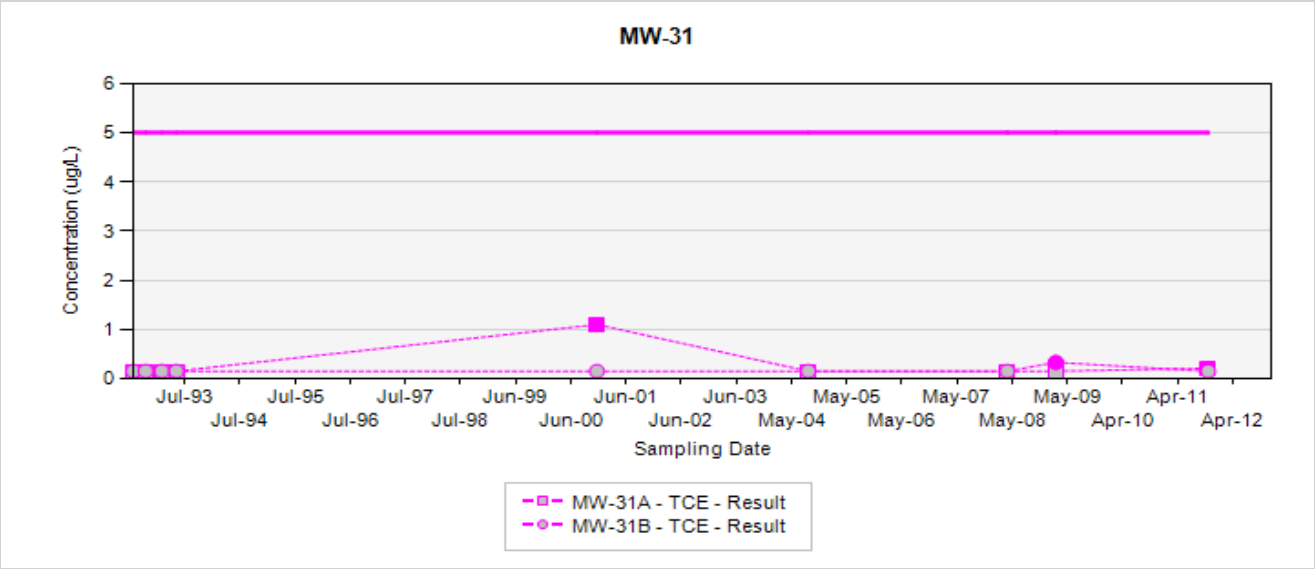

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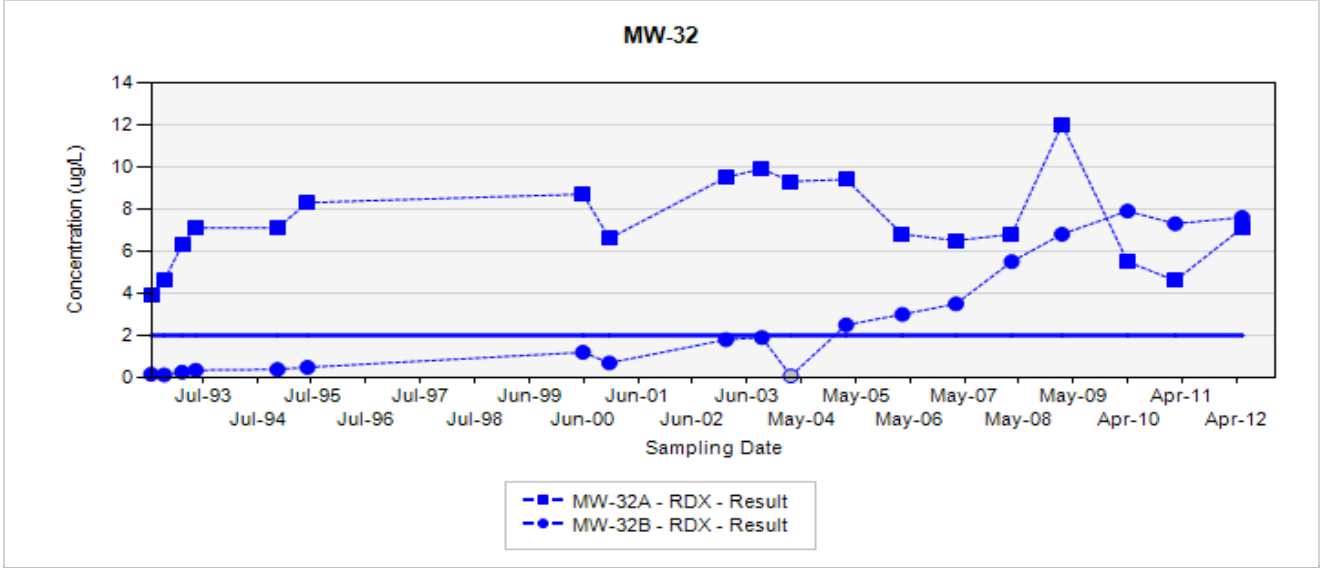
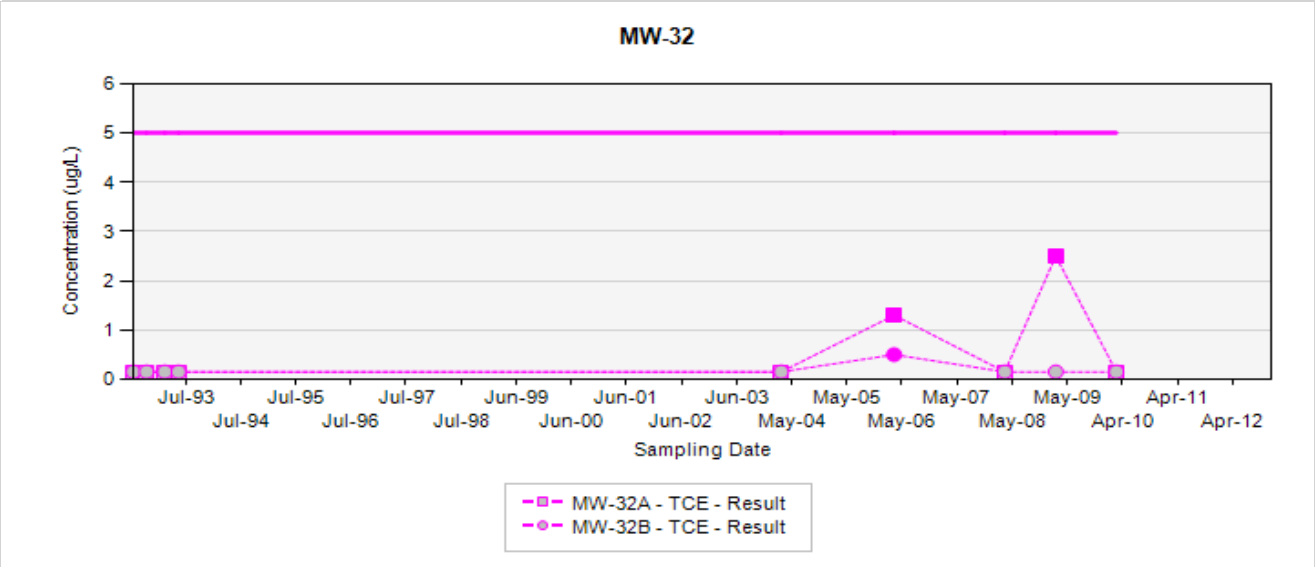
Appendix C
Monitoring Well Concentration Trend Charts Over Time





TCE - trichloroethene
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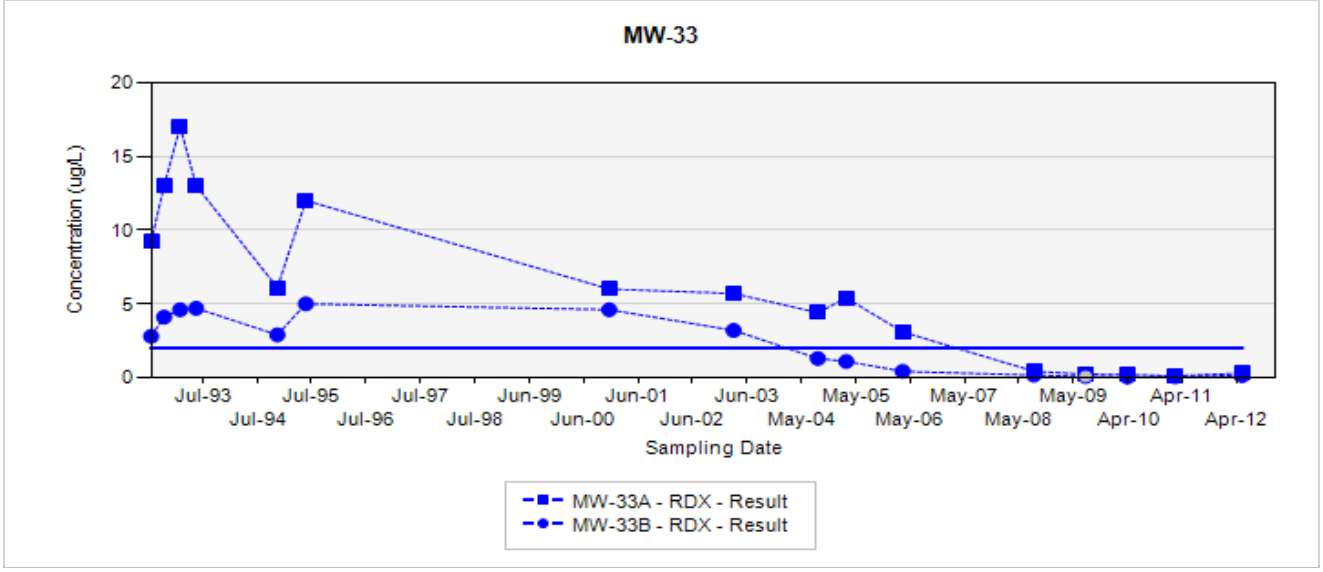

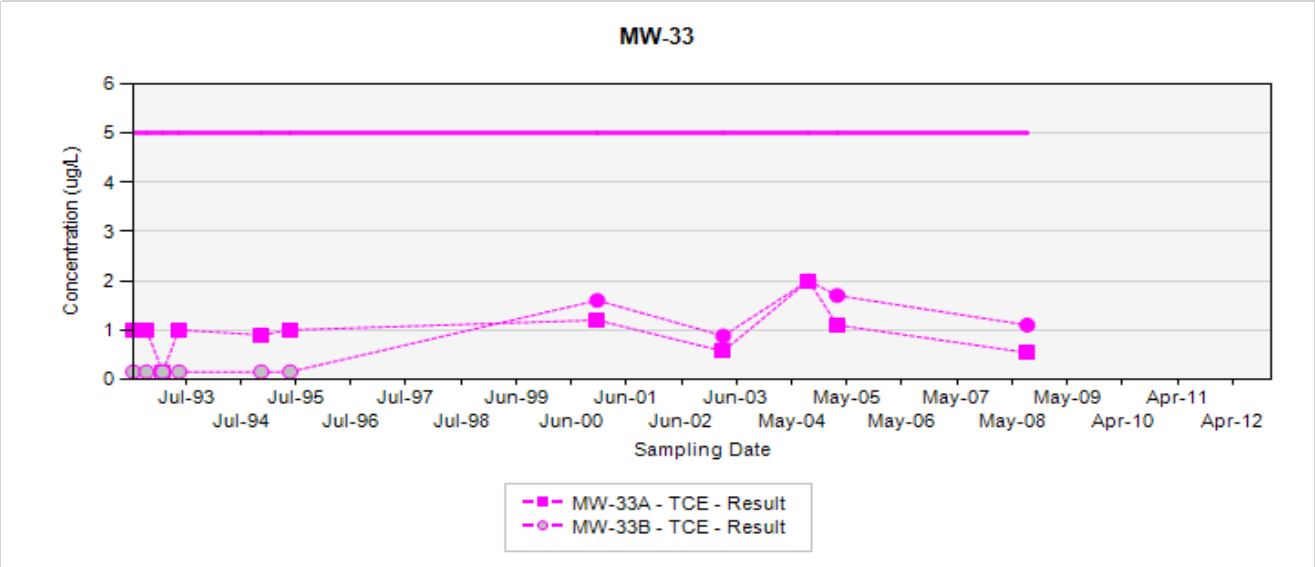

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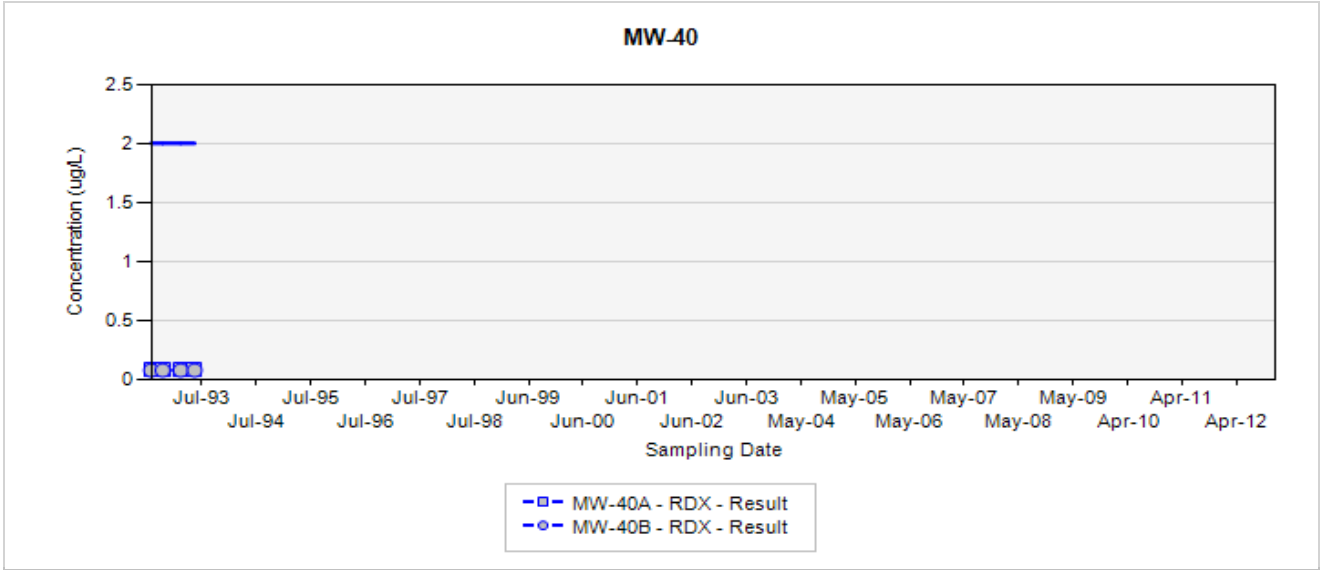

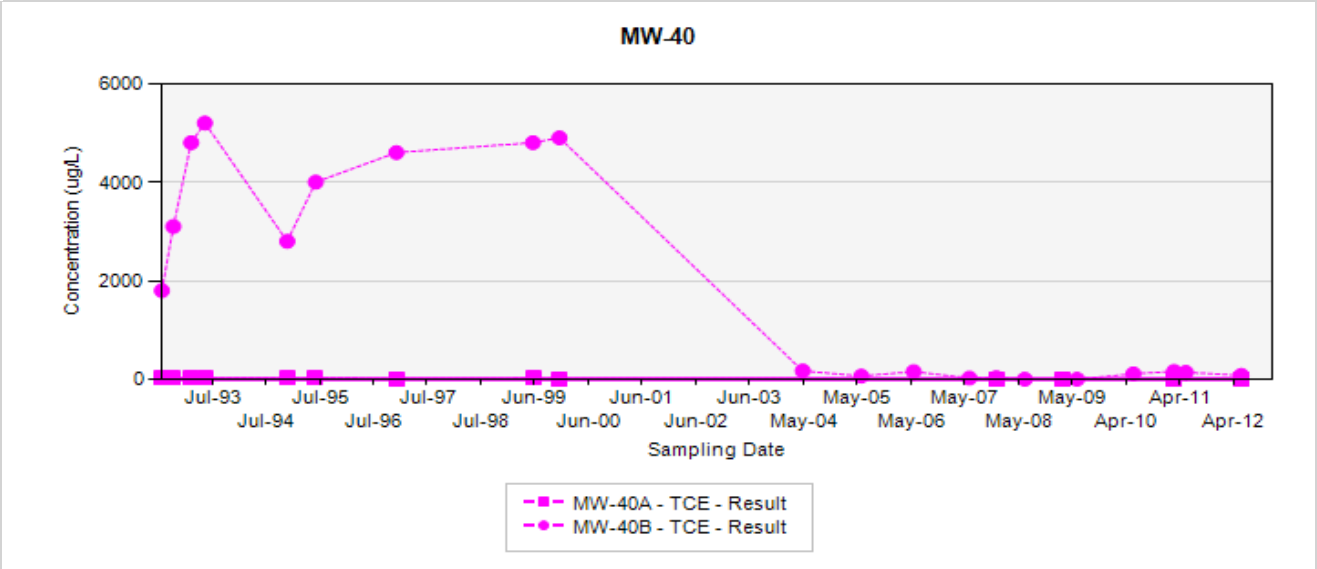

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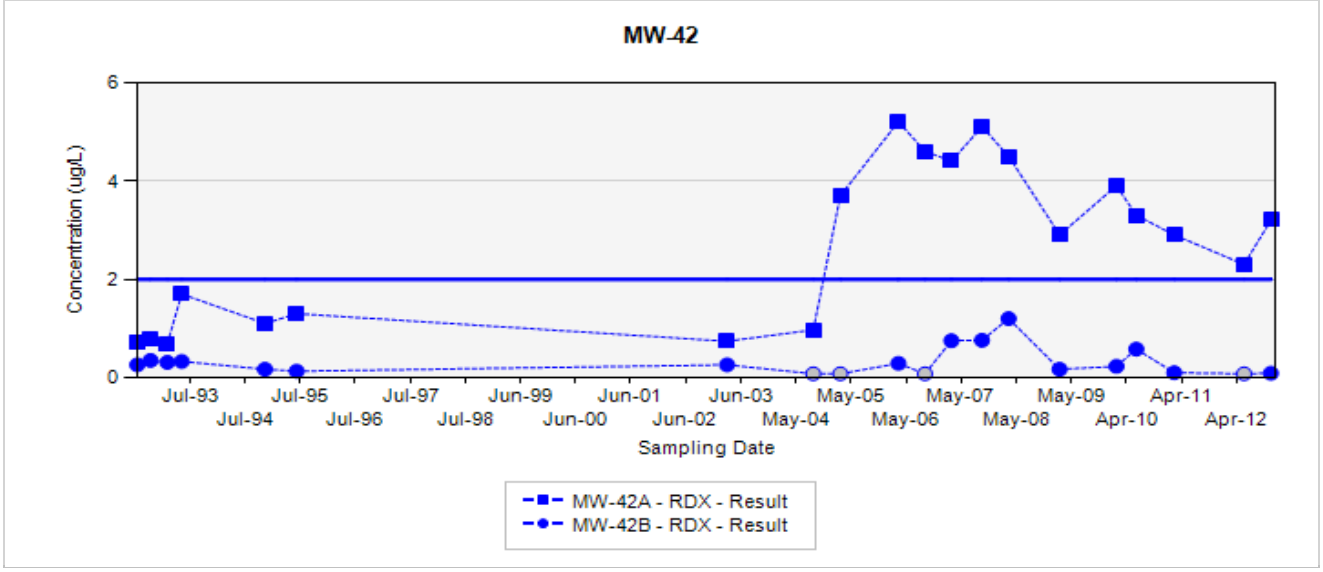

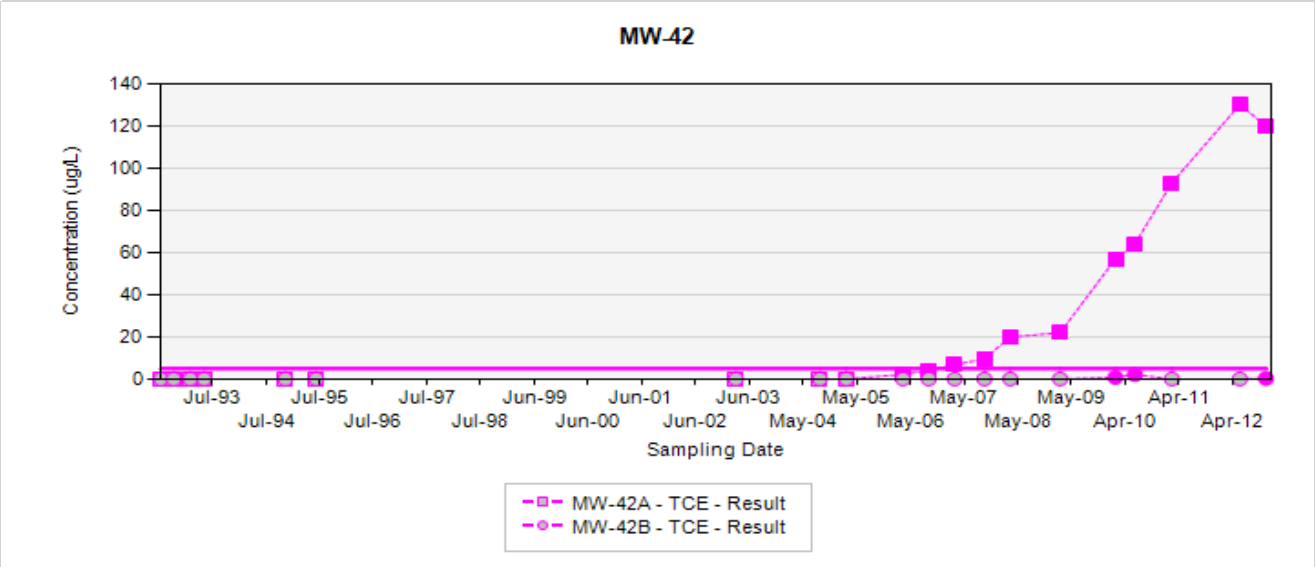

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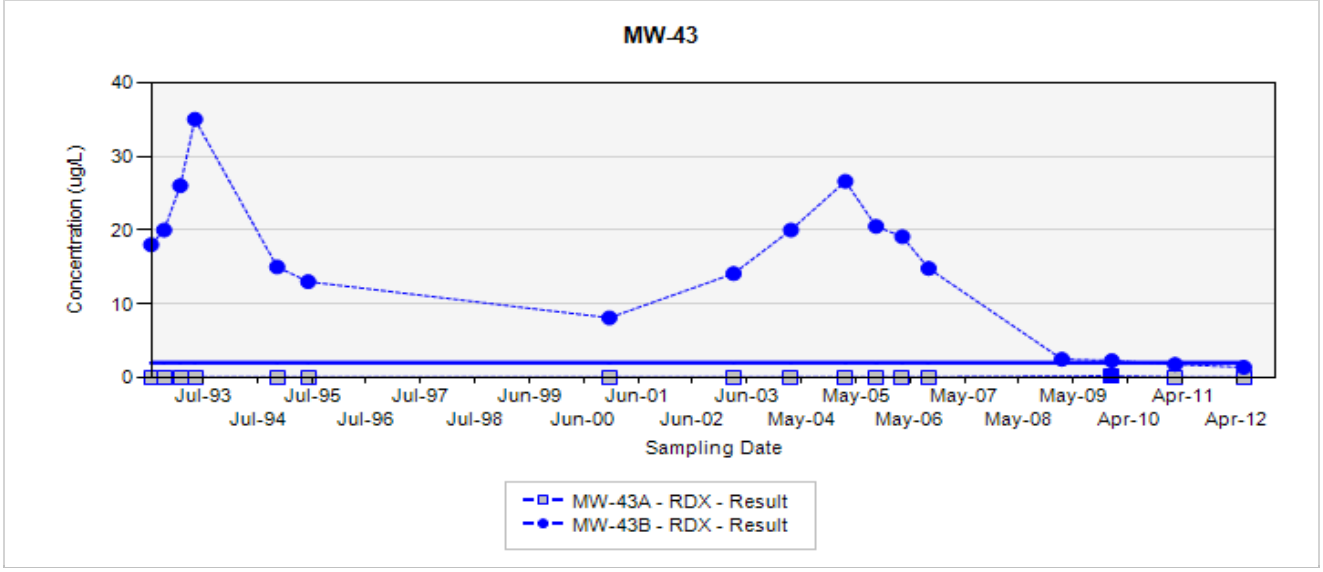

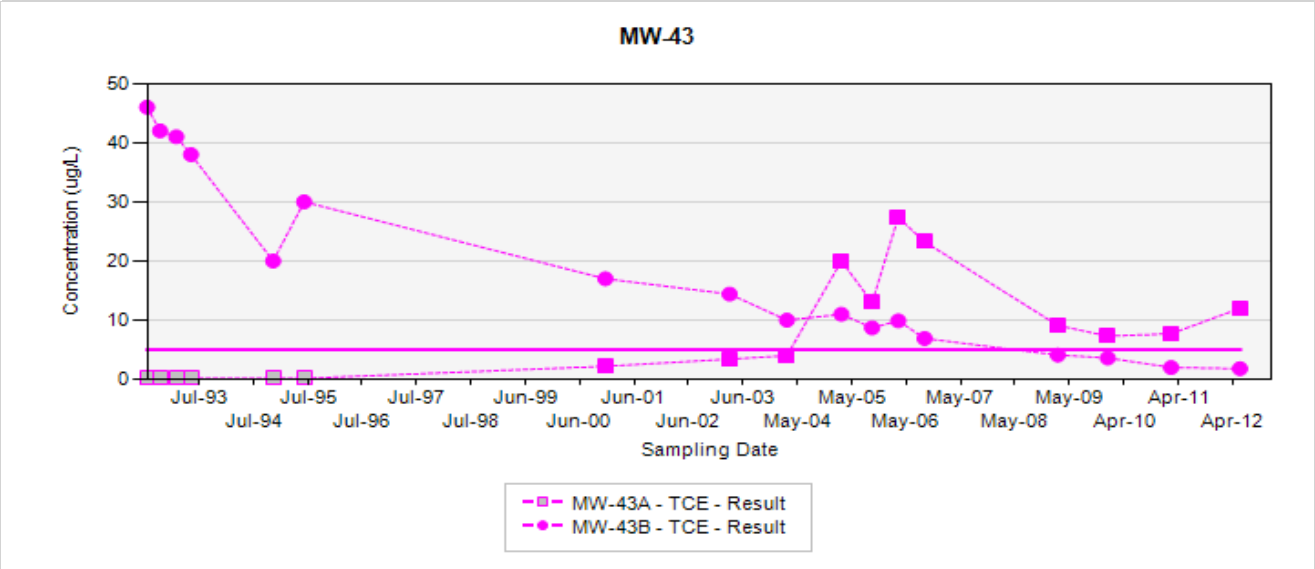

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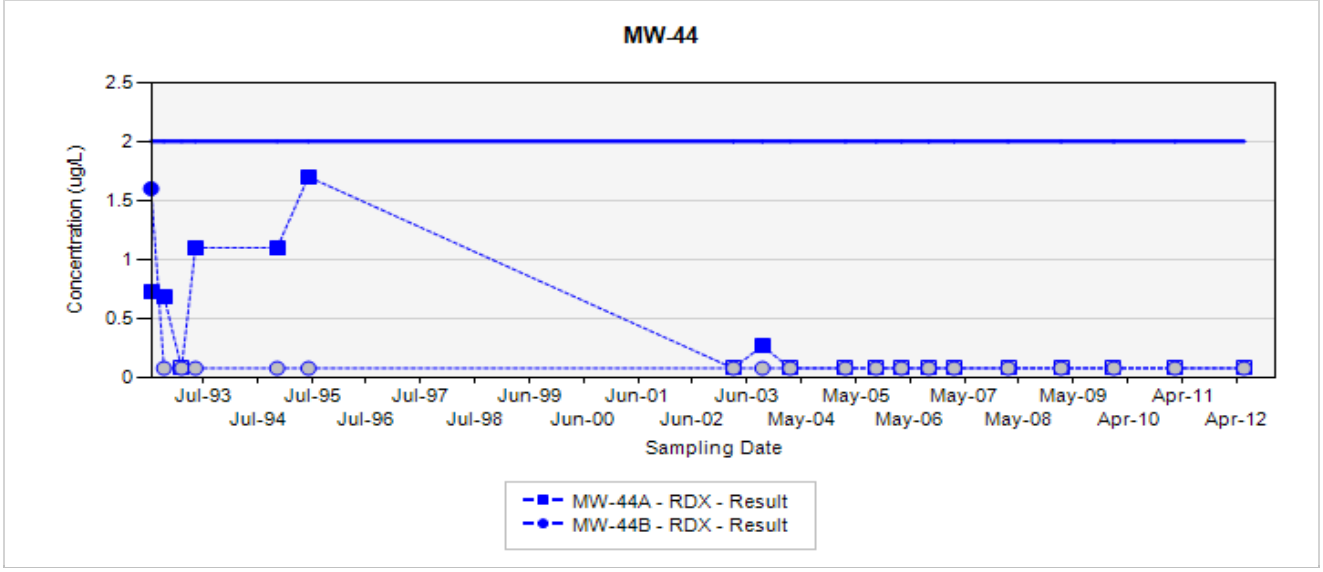

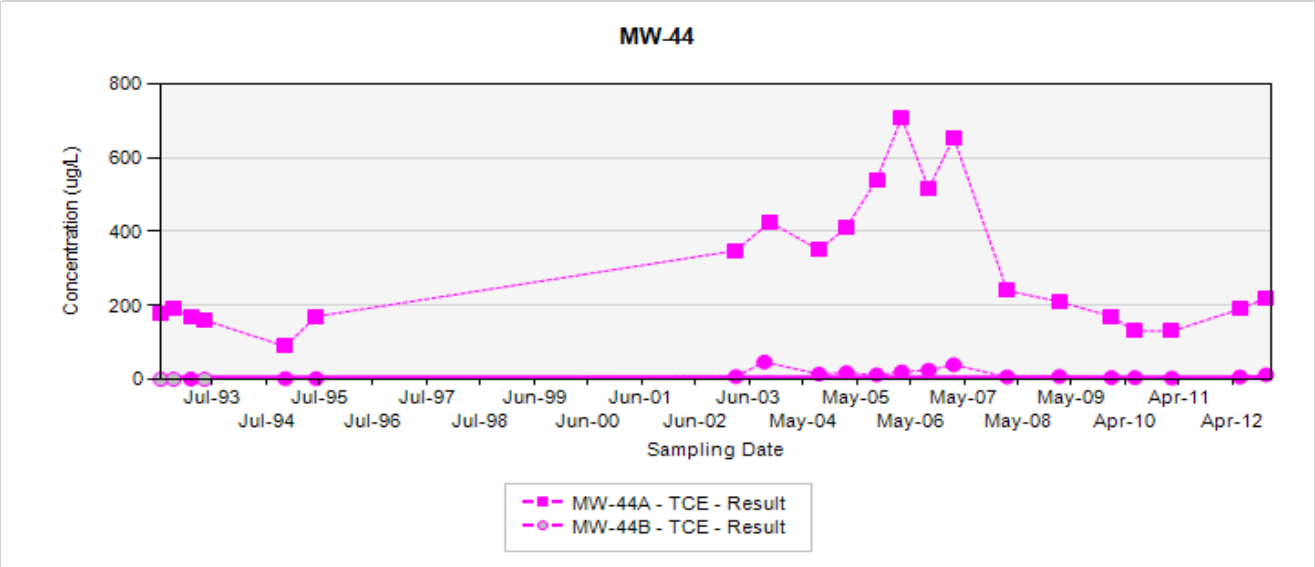

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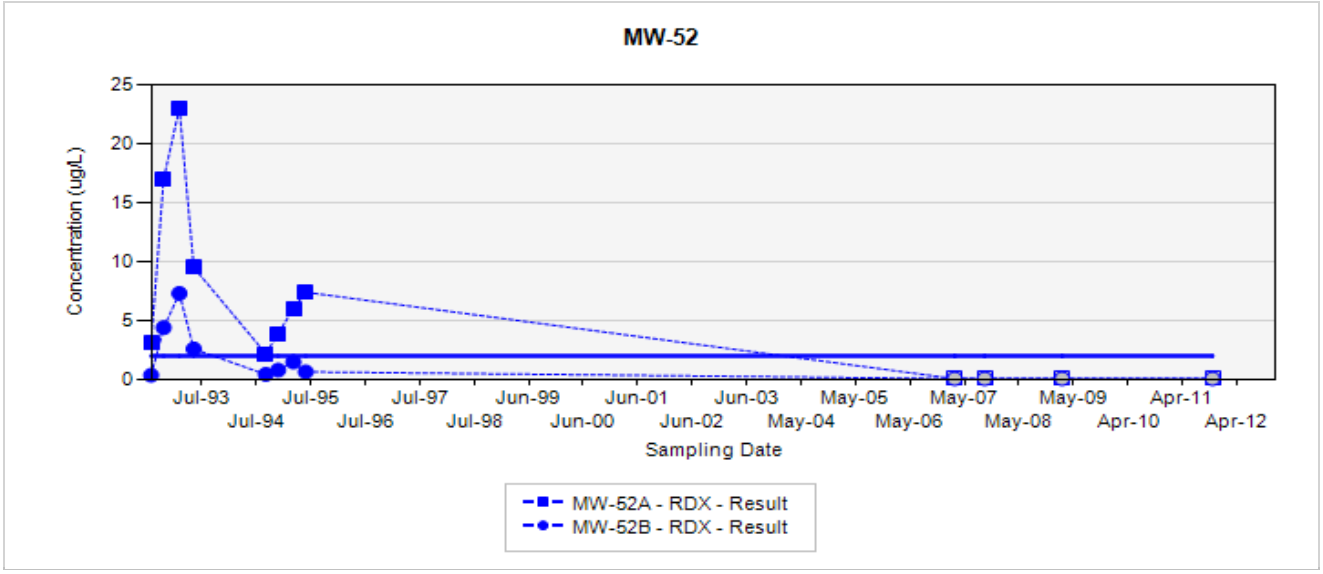

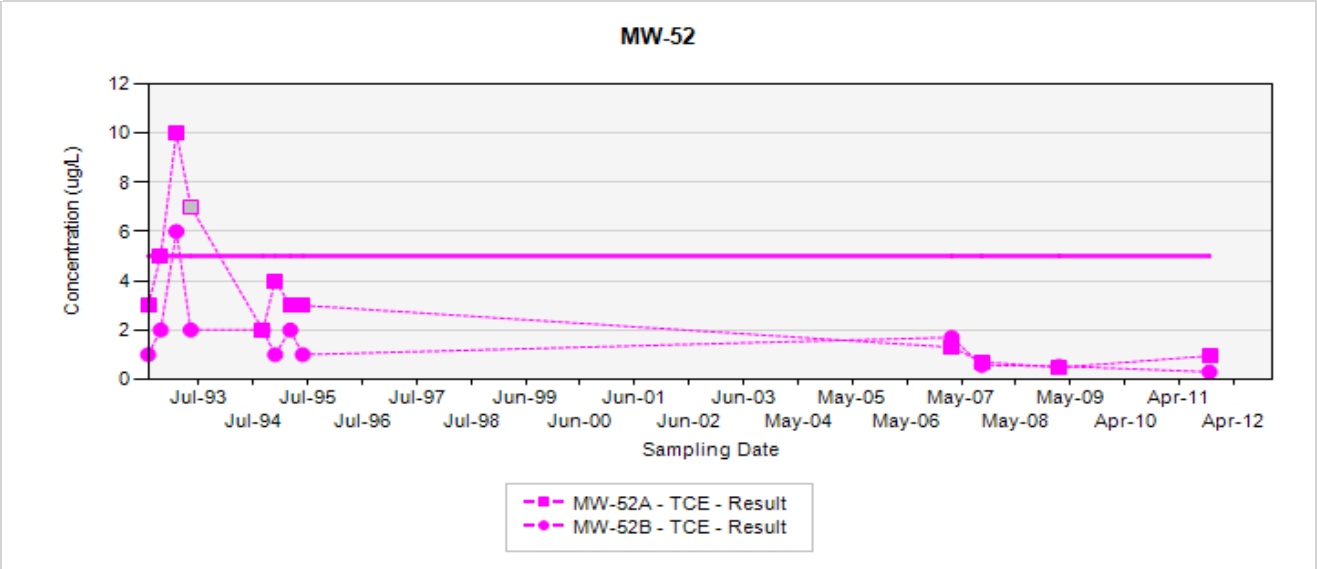

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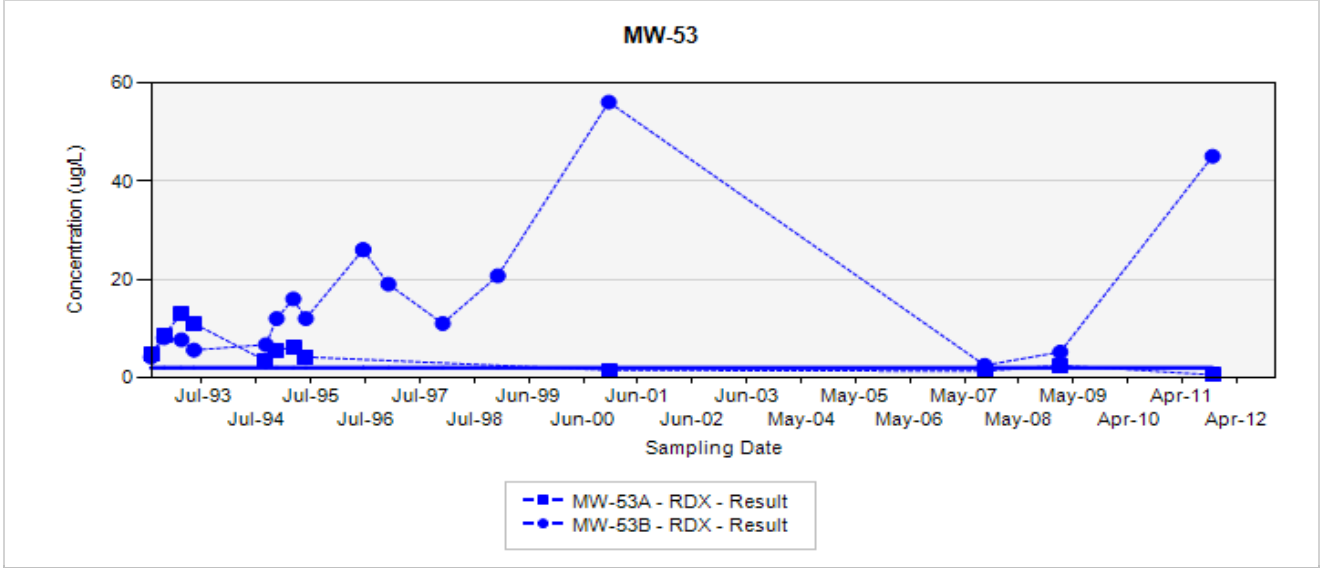

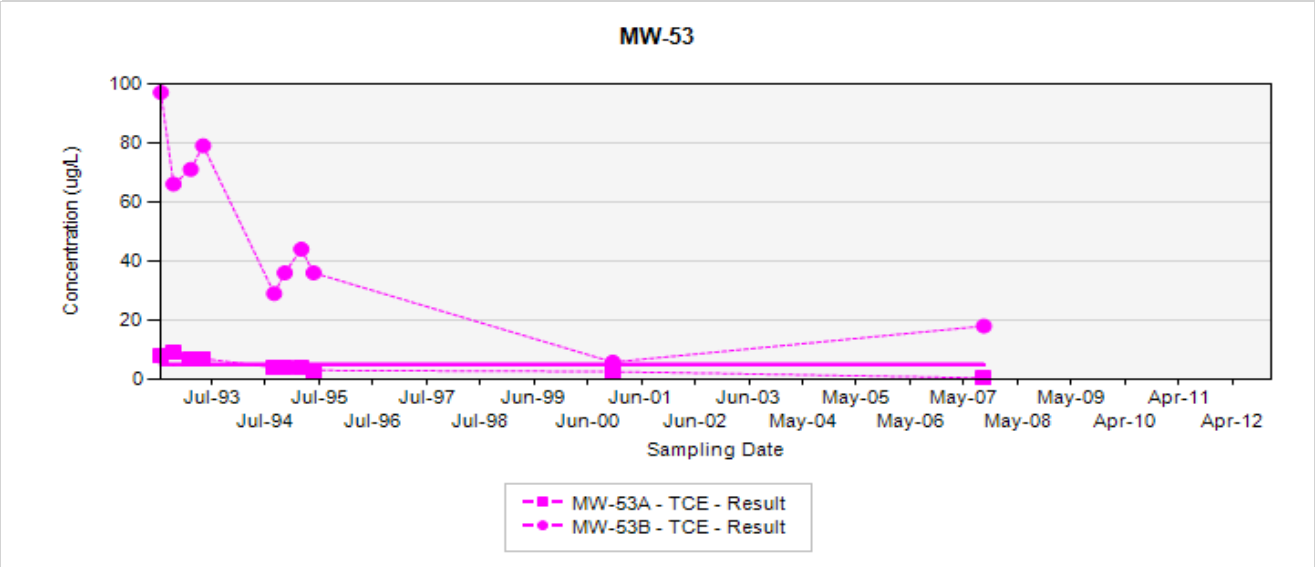

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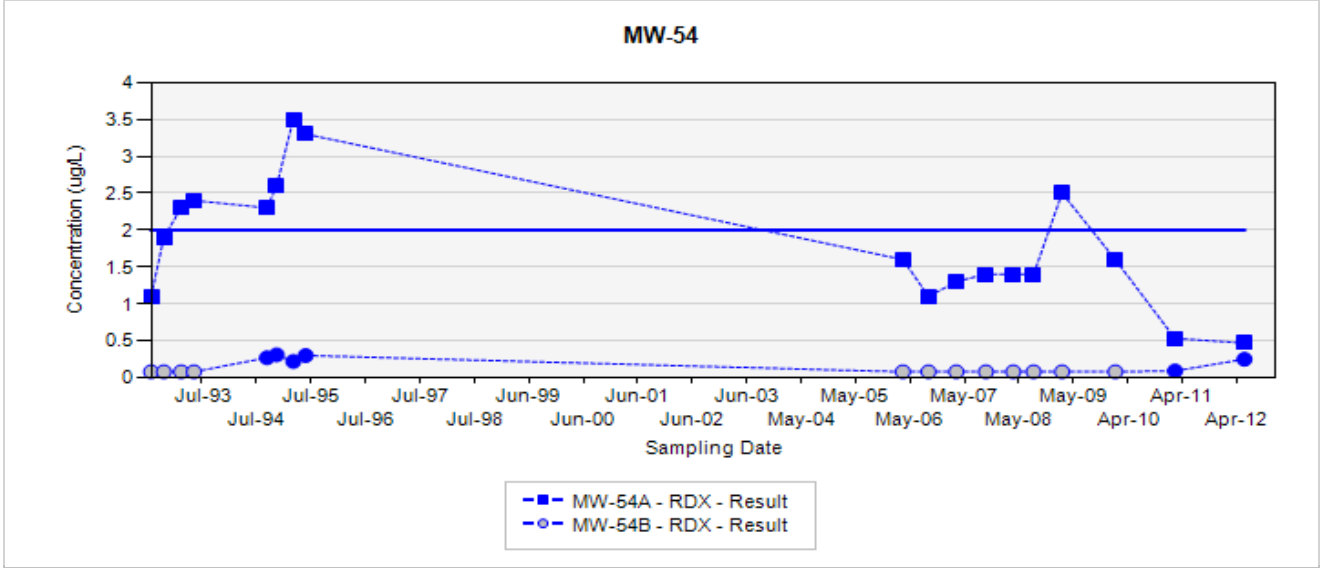

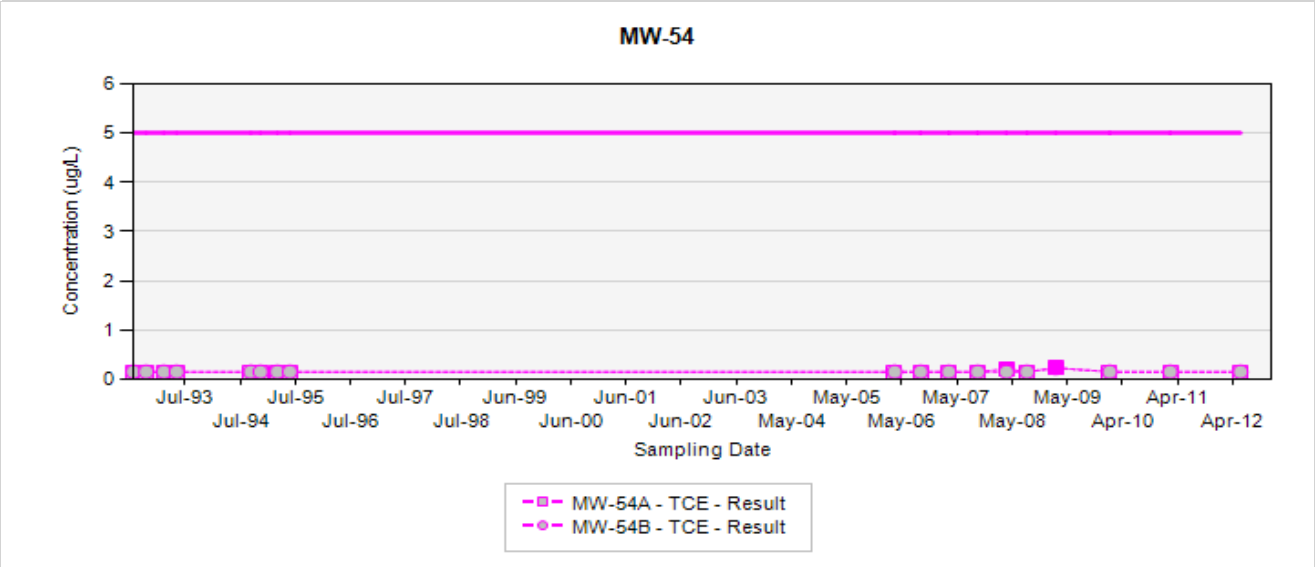

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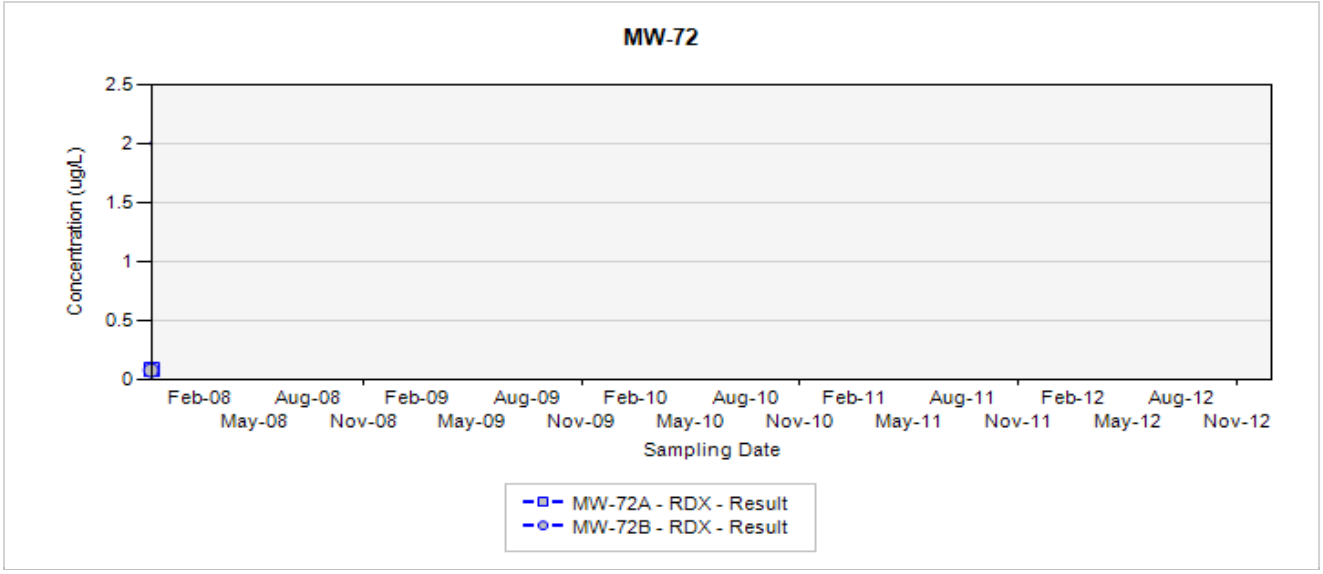

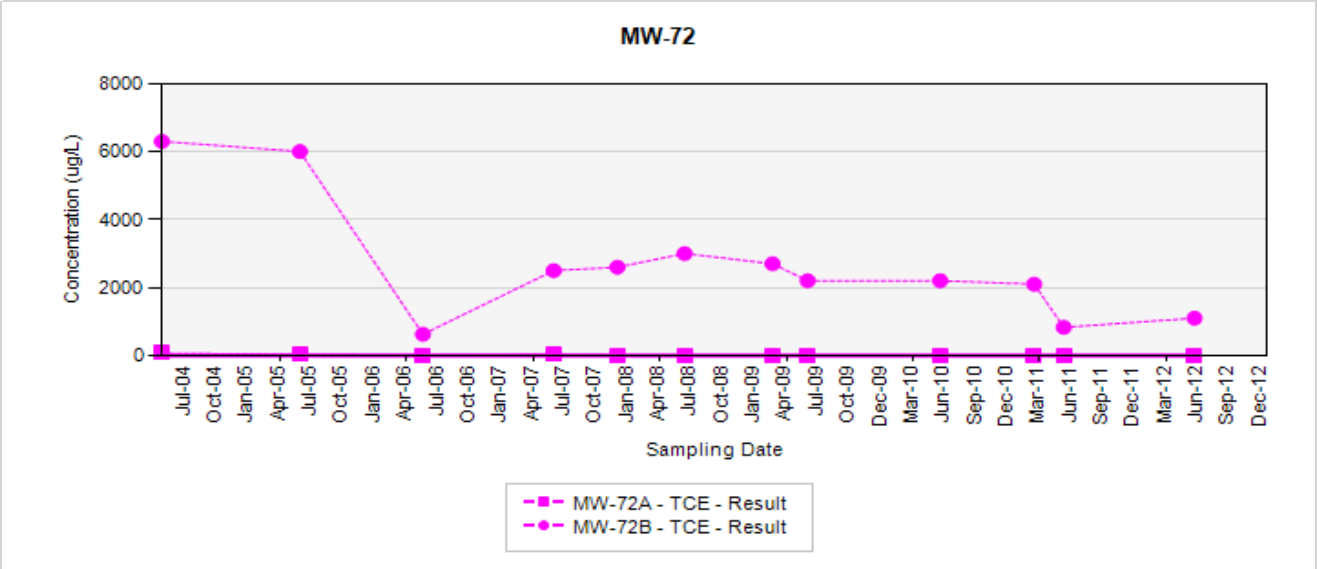

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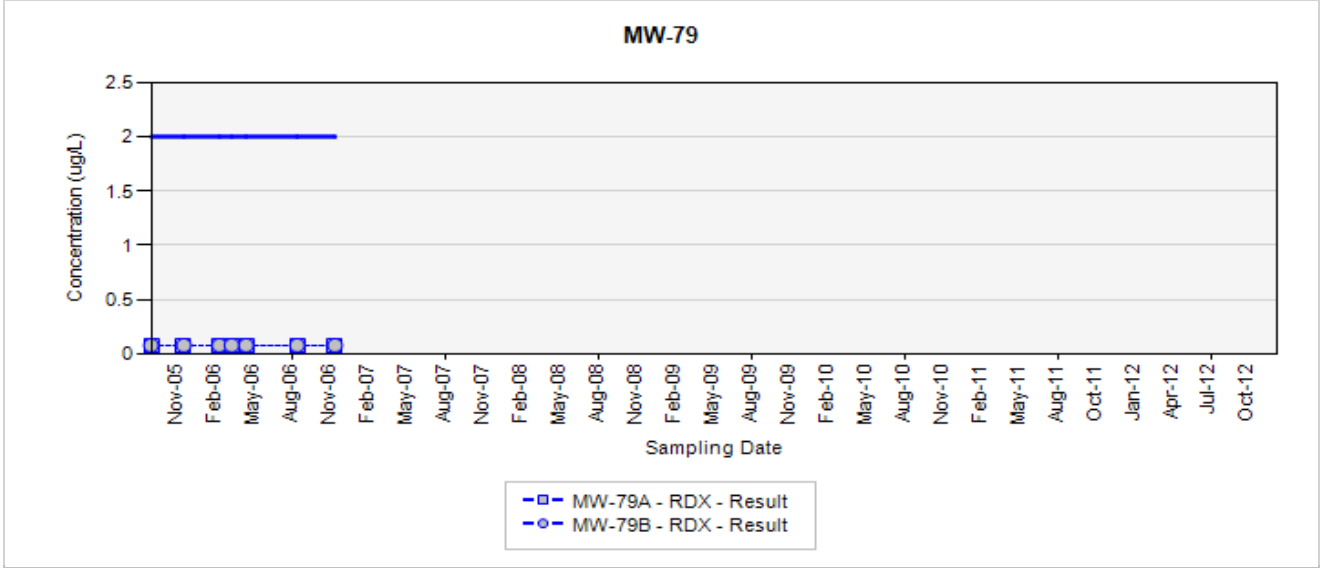

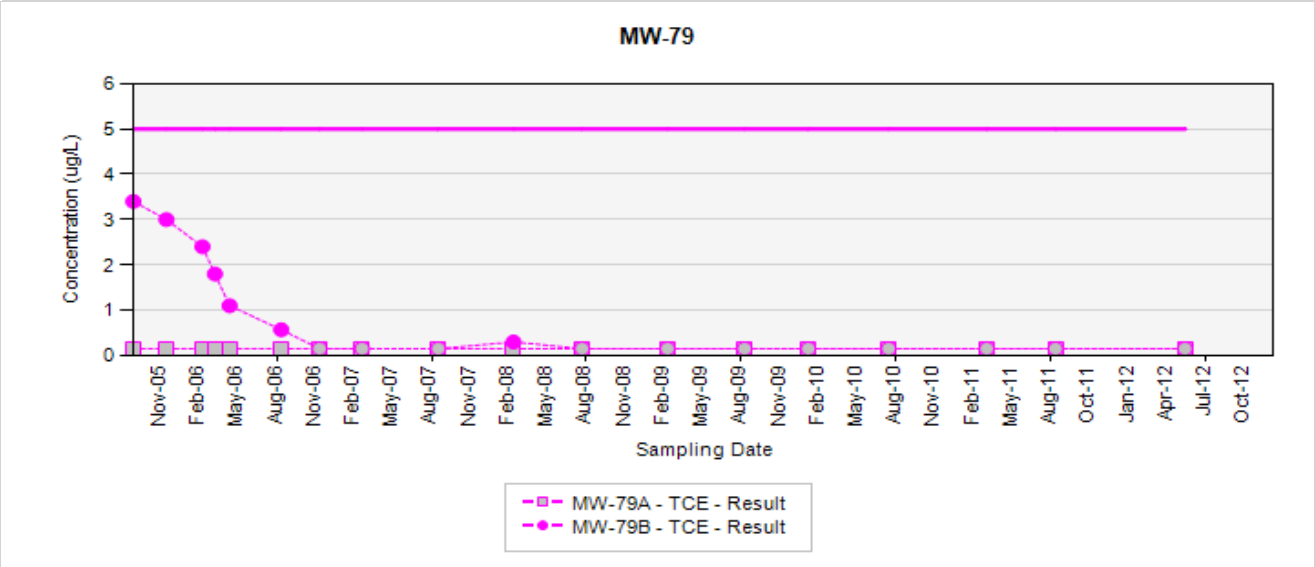

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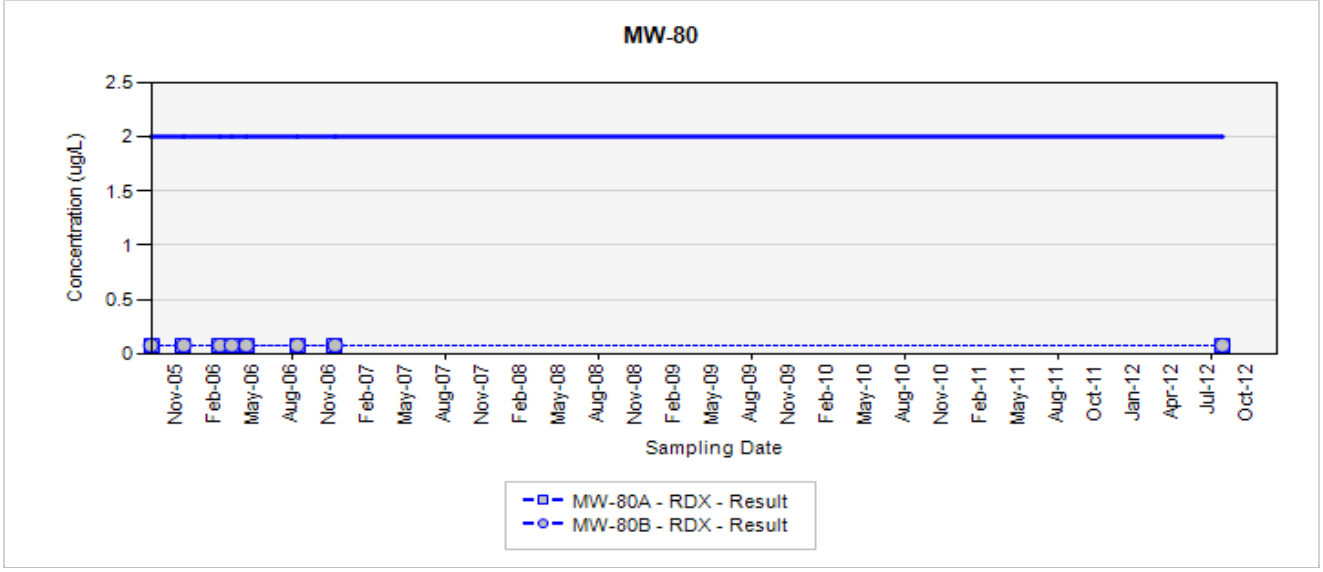

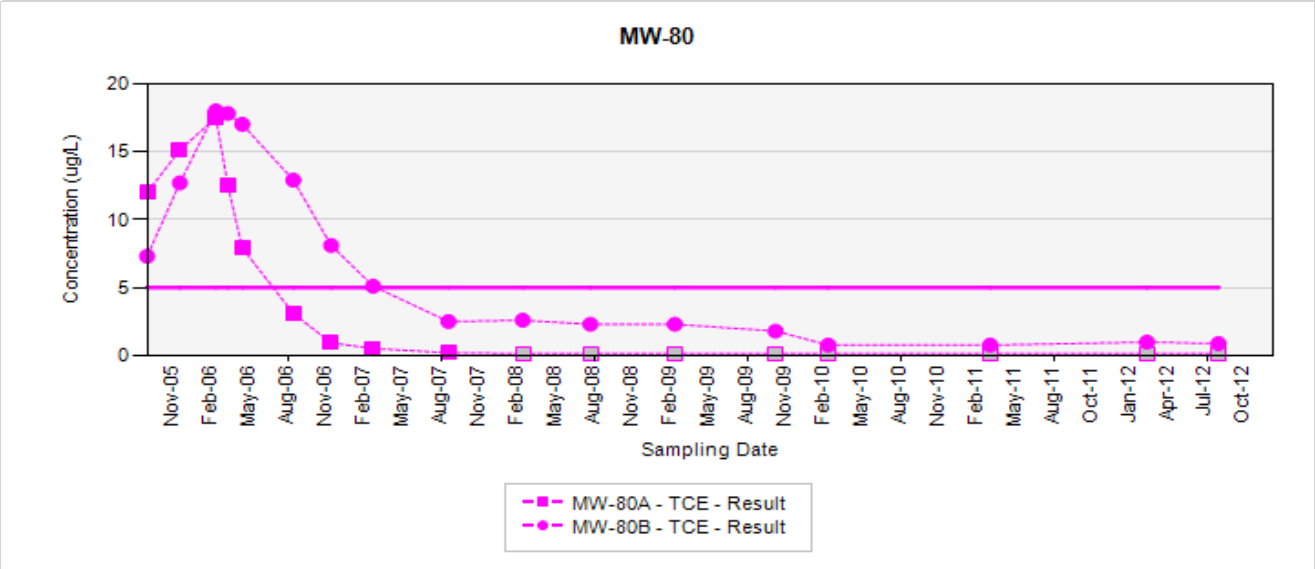

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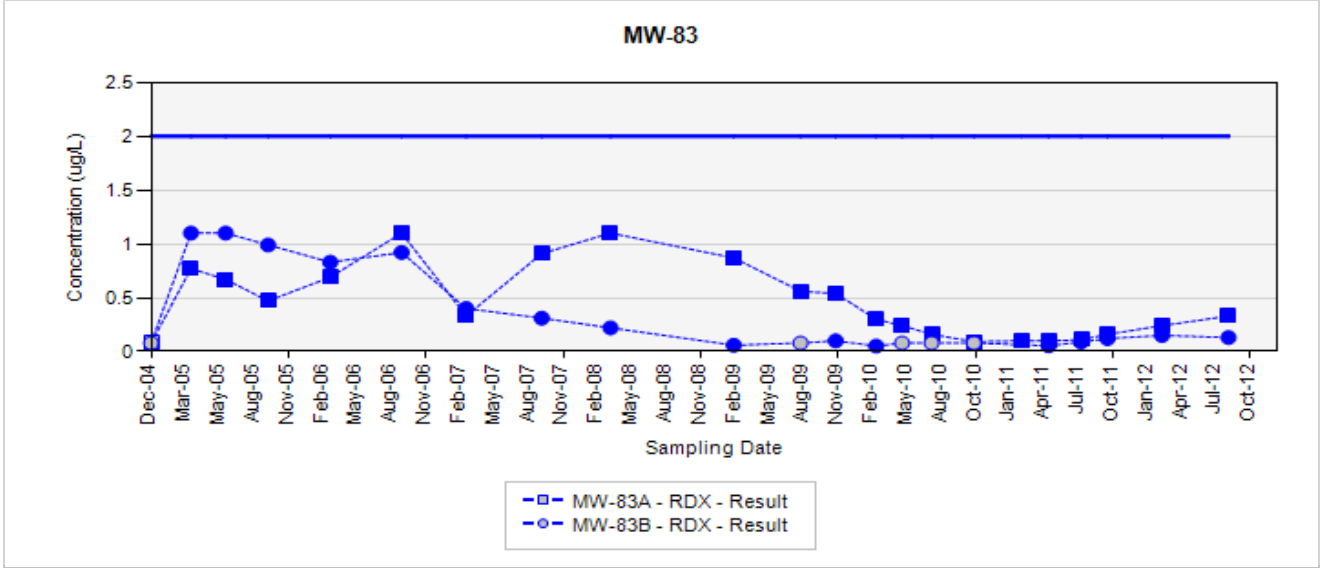

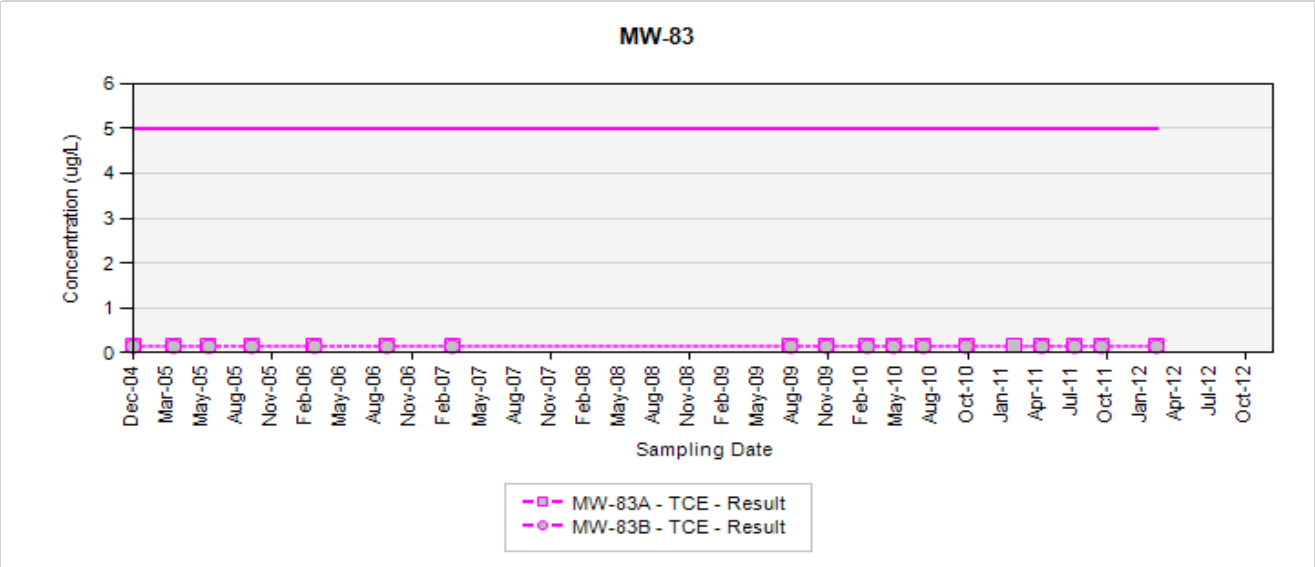

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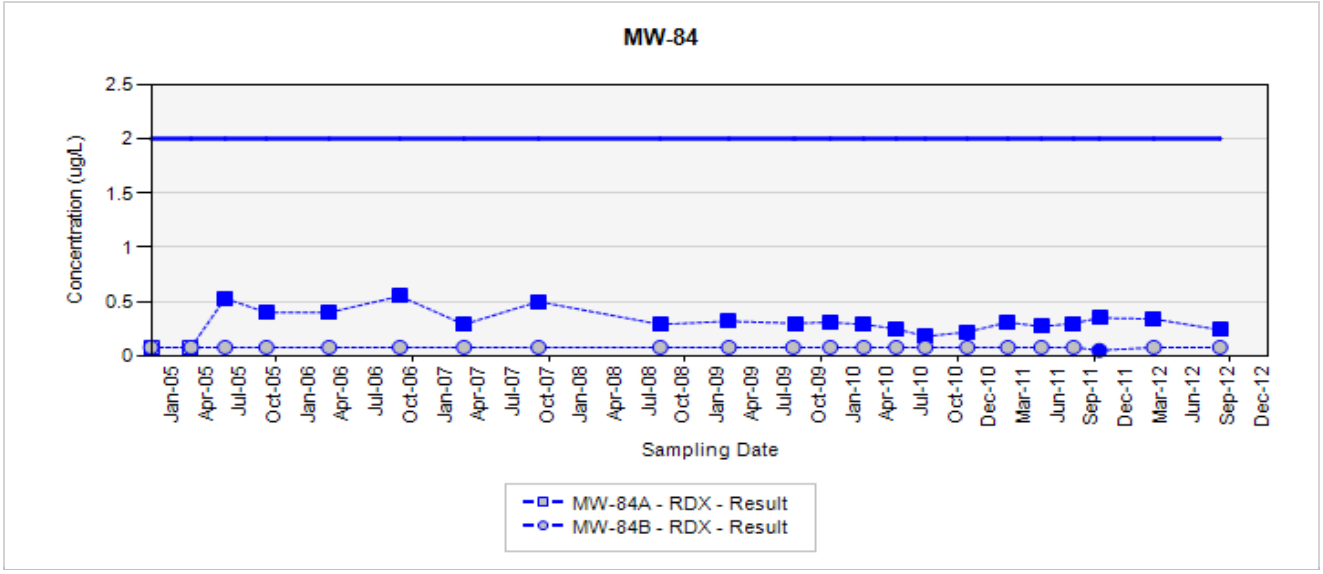

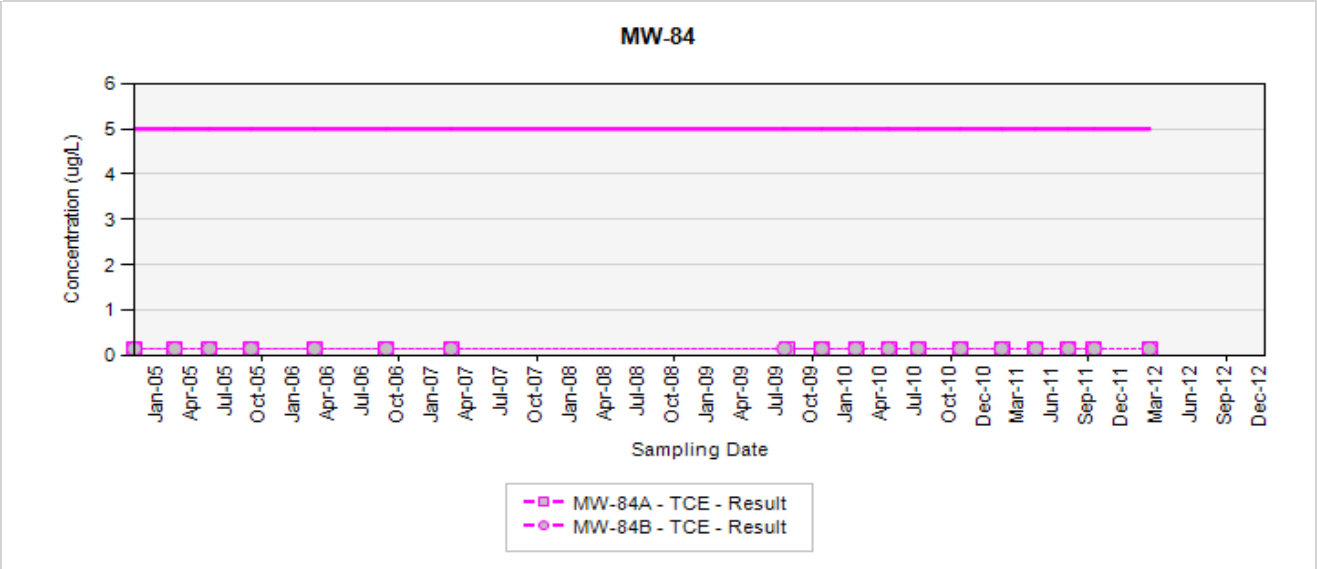

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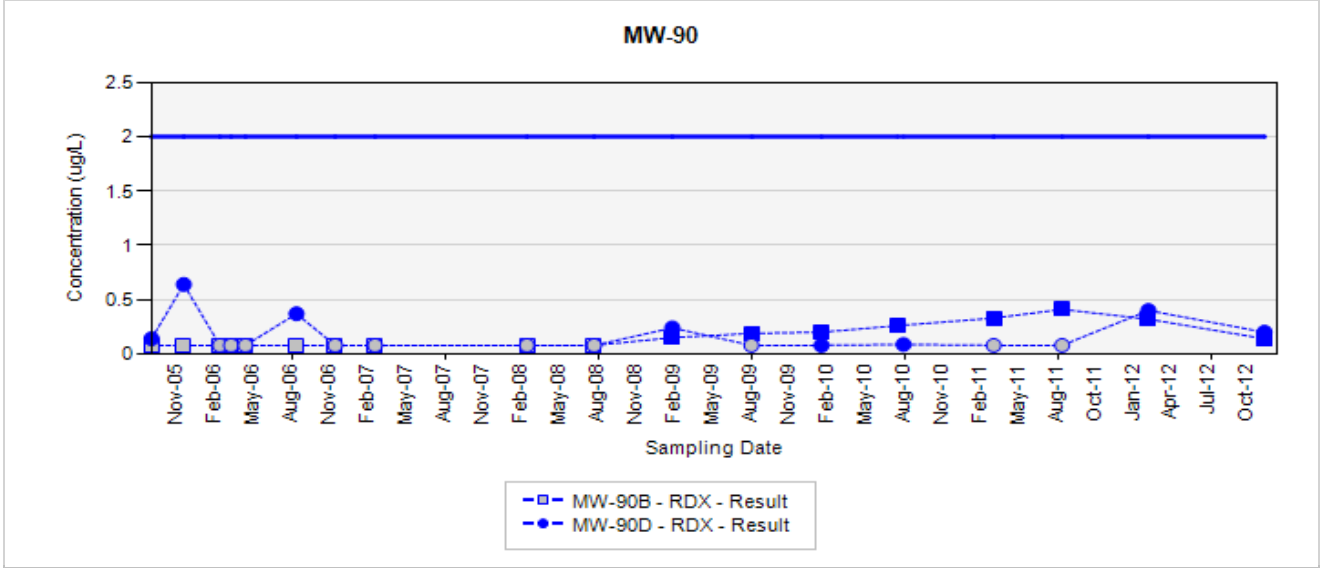

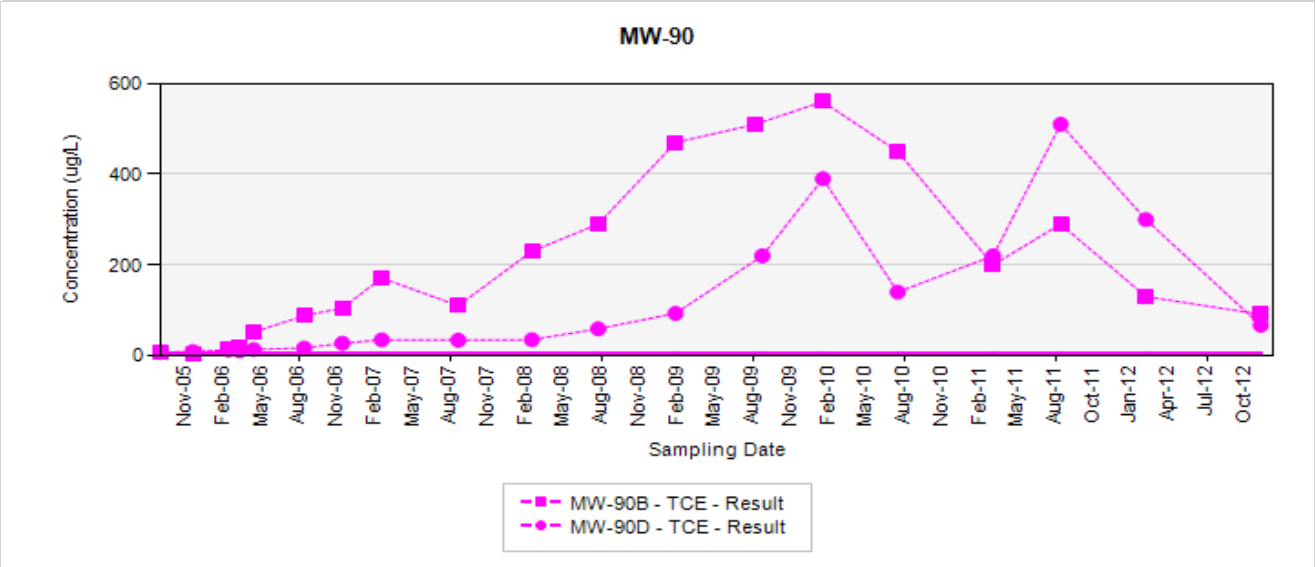

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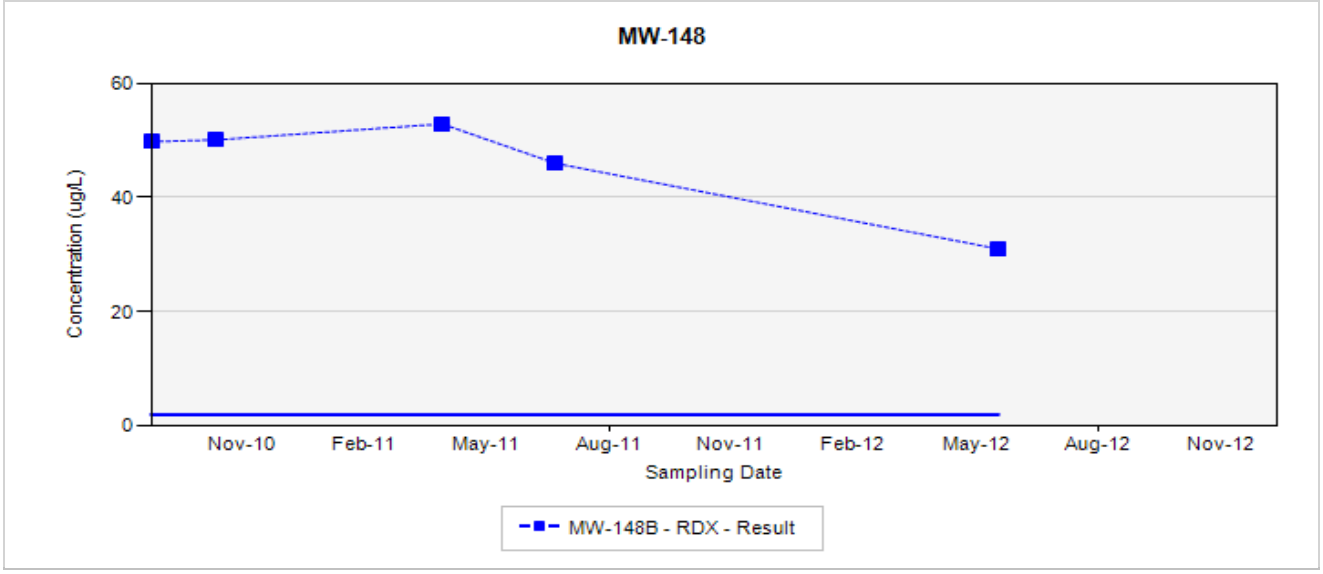

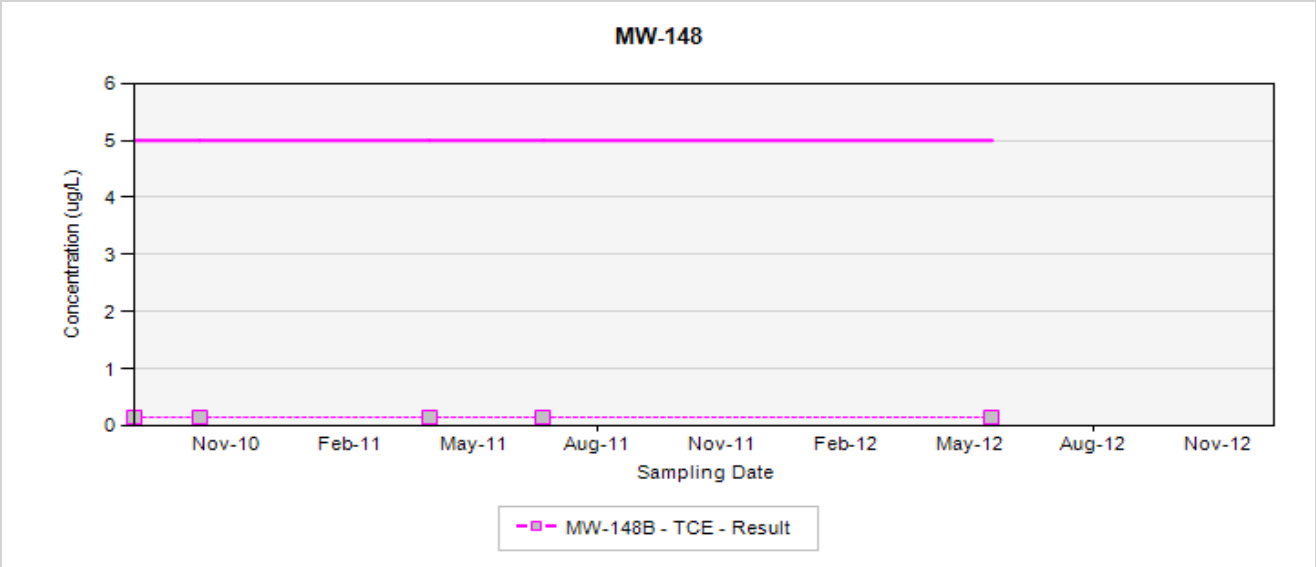

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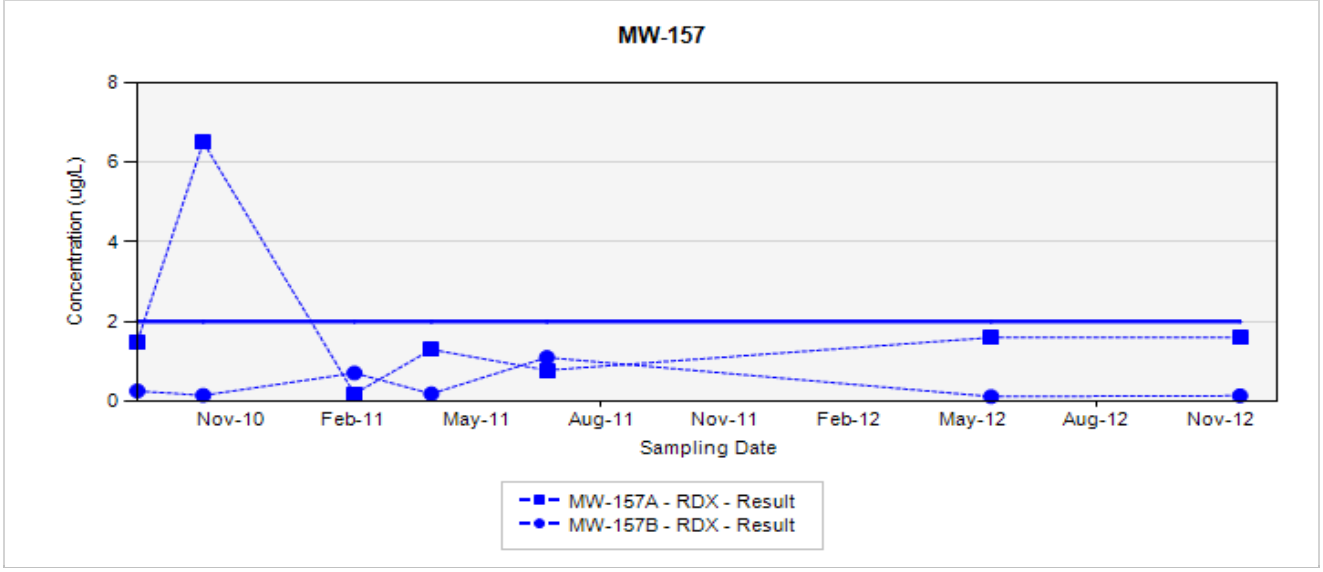

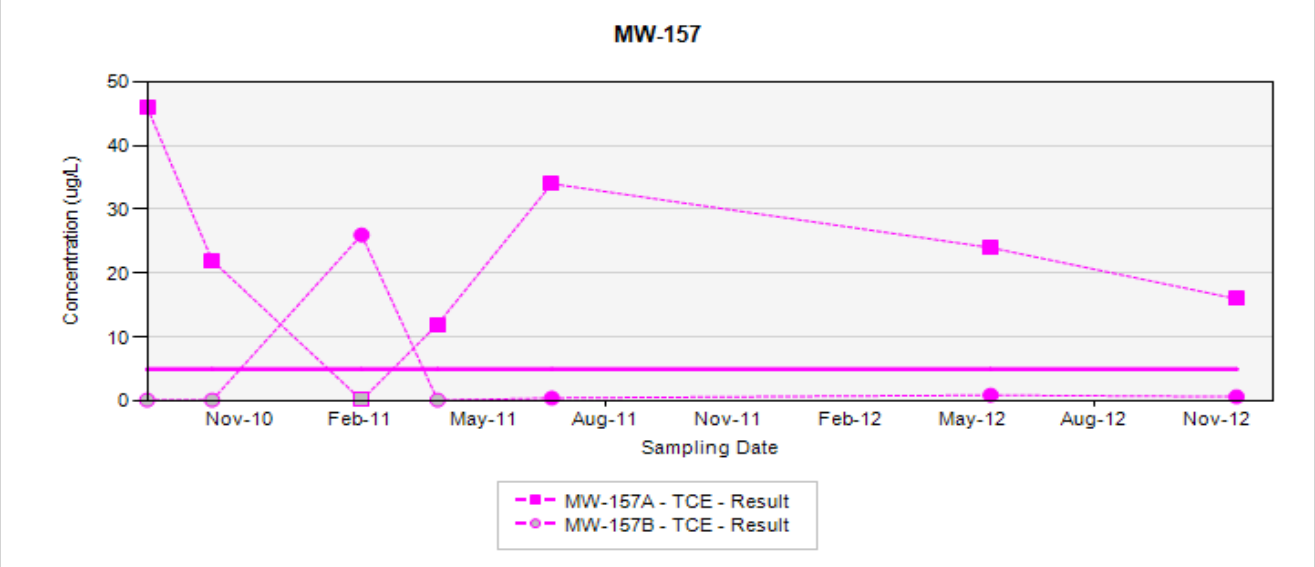

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Appendix D
Predictive Simulations Results

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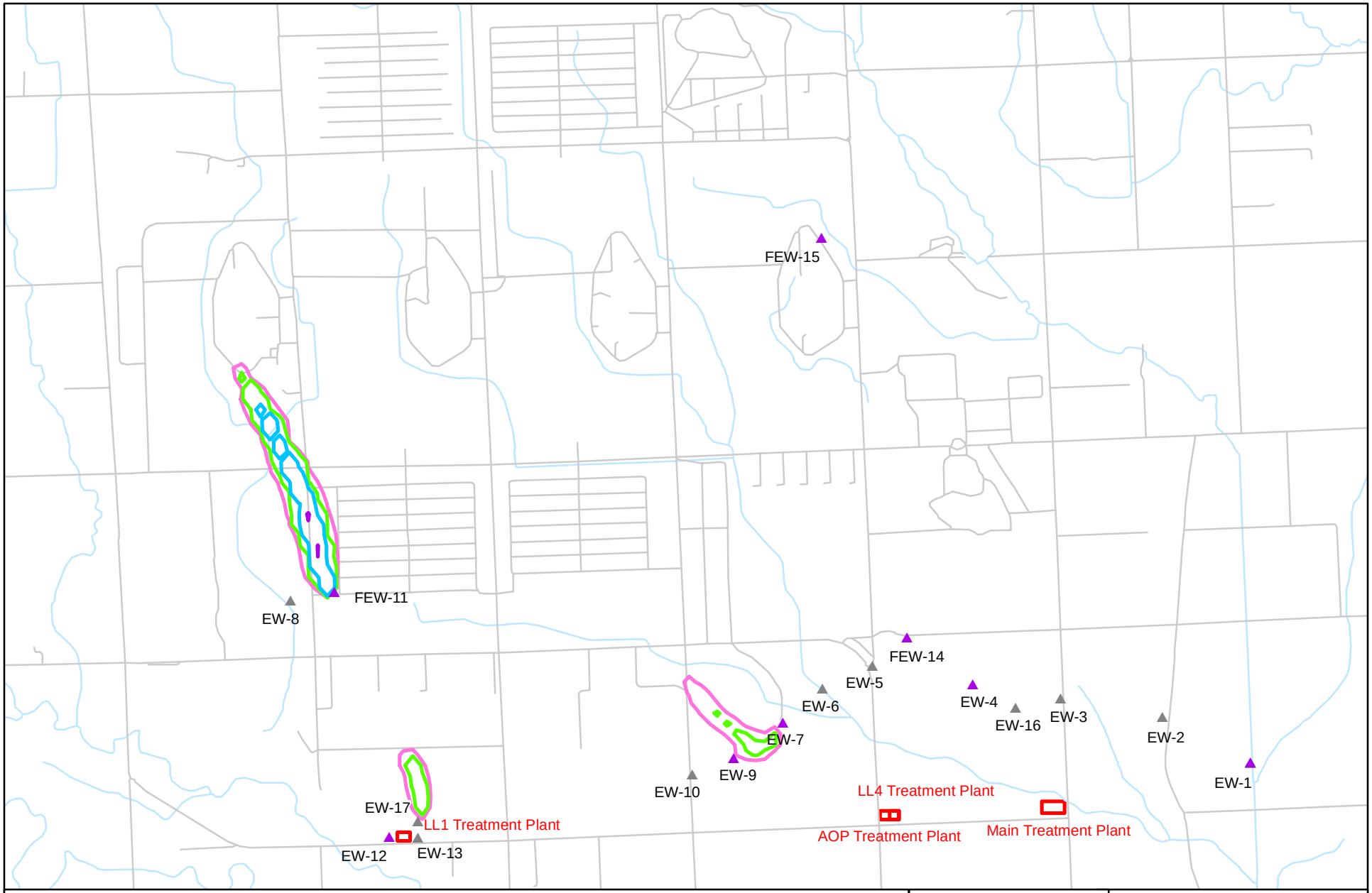


Legend

USACE Extraction Well

Treatment Plant

Trichloroethene (TCE) Contours

- 5 ug/L
- 10 ug/L
- 100 ug/L
- 1,000 ug/L
- 10,000 ug/L

N

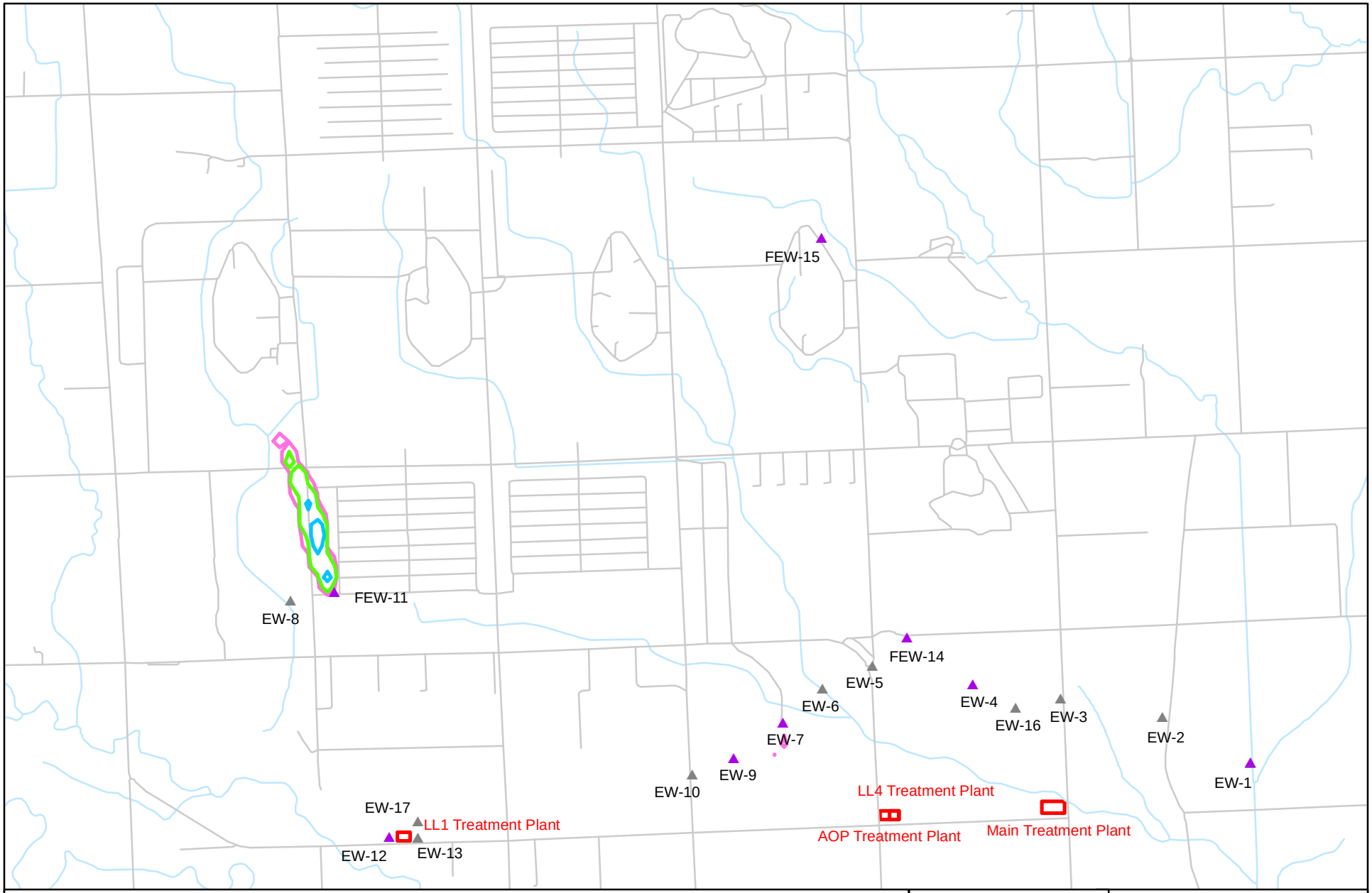
0 1,500 3,000 6,000 Feet

US Army Corps of Engineers®
Kansas City District

Figure D-1

PREDICTED TCE
LAYER 2
2052
Former NOP

K:\ENV\ECC\site\51469\Data\GIS\2013\2012 GWM\FigD-1_TCE_L2_2052.mxd jmf ro August 5, 2013



Legend

USACE Extraction Well

Treatment Plant

Trichloroethene (TCE) Contours

- 5 ug/L
- 10 ug/L
- 100 ug/L
- 1,000 ug/L
- 10,000 ug/L

N

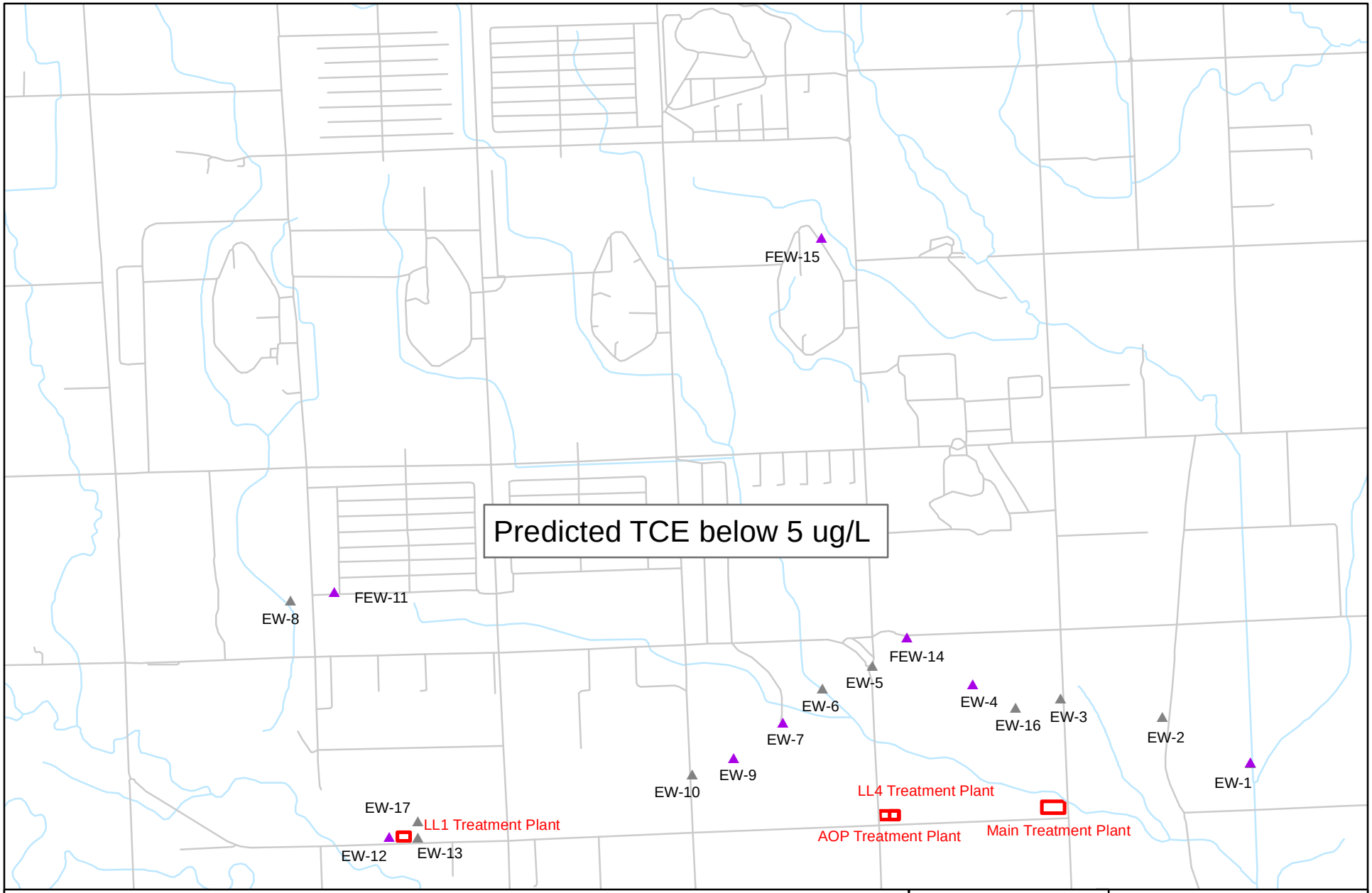
0 1,500 3,000 6,000 Feet

US Army Corps of Engineers®
Kansas City District

Figure D-2

PREDICTED TCE
LAYER 2
2062
Former NOP

K:\ENV\ECC\site\51469\Data\GIS\2013\2012 GWM\FigD-2_TCE_L2_2062.mxd jmf ro August 5, 2013



Legend

USACE Extraction Well

Treatment Plant

Trichloroethene (TCE) Contours

- 5 ug/L
- 10 ug/L
- 100 ug/L
- 1,000 ug/L
- 10,000 ug/L

N

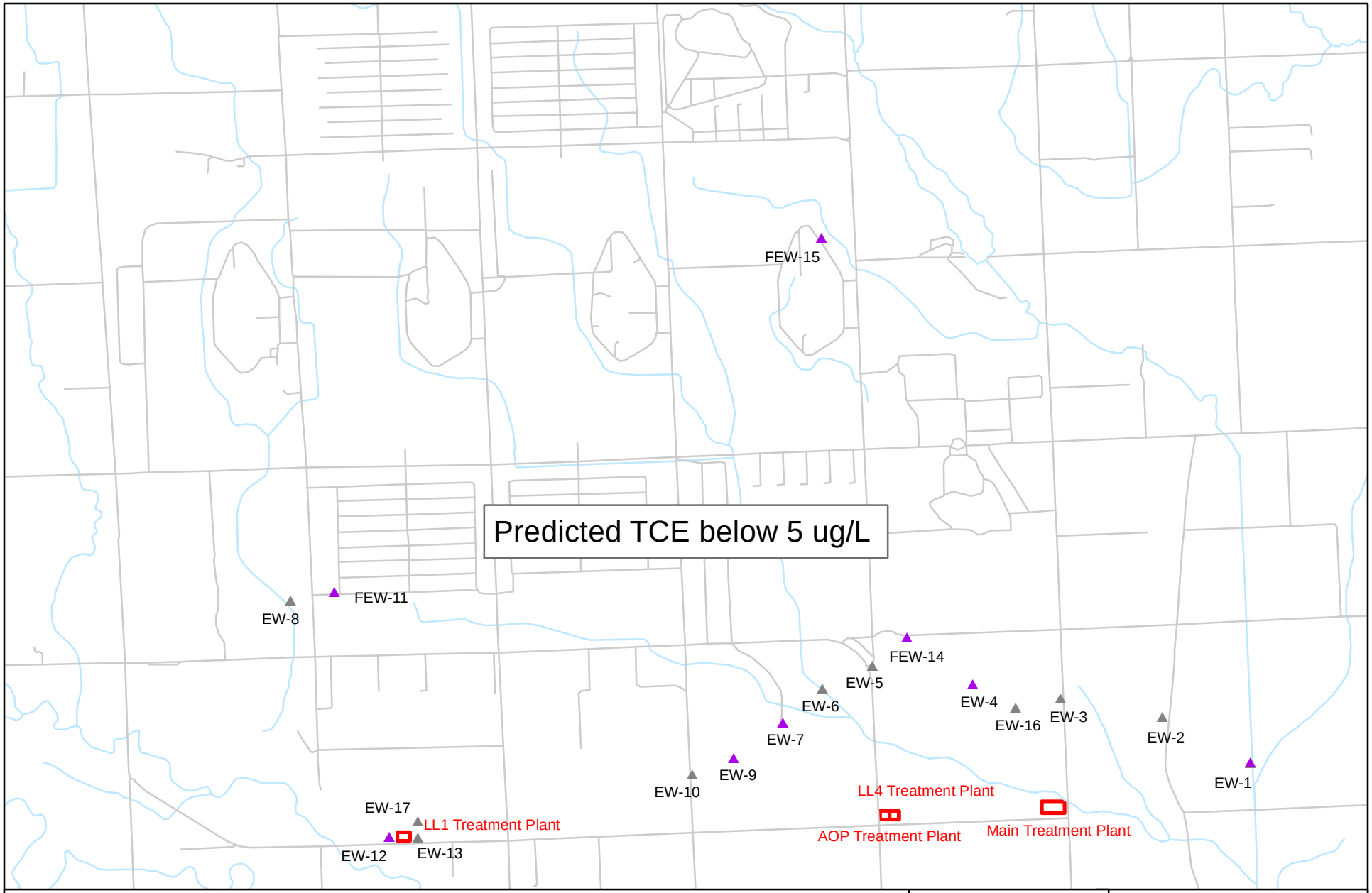
0 1,500 3,000 6,000 Feet

US Army Corps of Engineers®
Kansas City District

Figure D-3

PREDICTED TCE
LAYER 2
2087
Former NOP

K:\ENV\ECC\site\51469\Data\GIS\2013\2012 GWM\FigD-3_TCE_L2_2087.mxd jmf ro August 5, 2013



Legend

- USACE Extraction Well
- Treatment Plant

Trichloroethene (TCE) Contours

- 5 ug/L
- 10 ug/L
- 100 ug/L
- 1,000 ug/L
- 10,000 ug/L

N

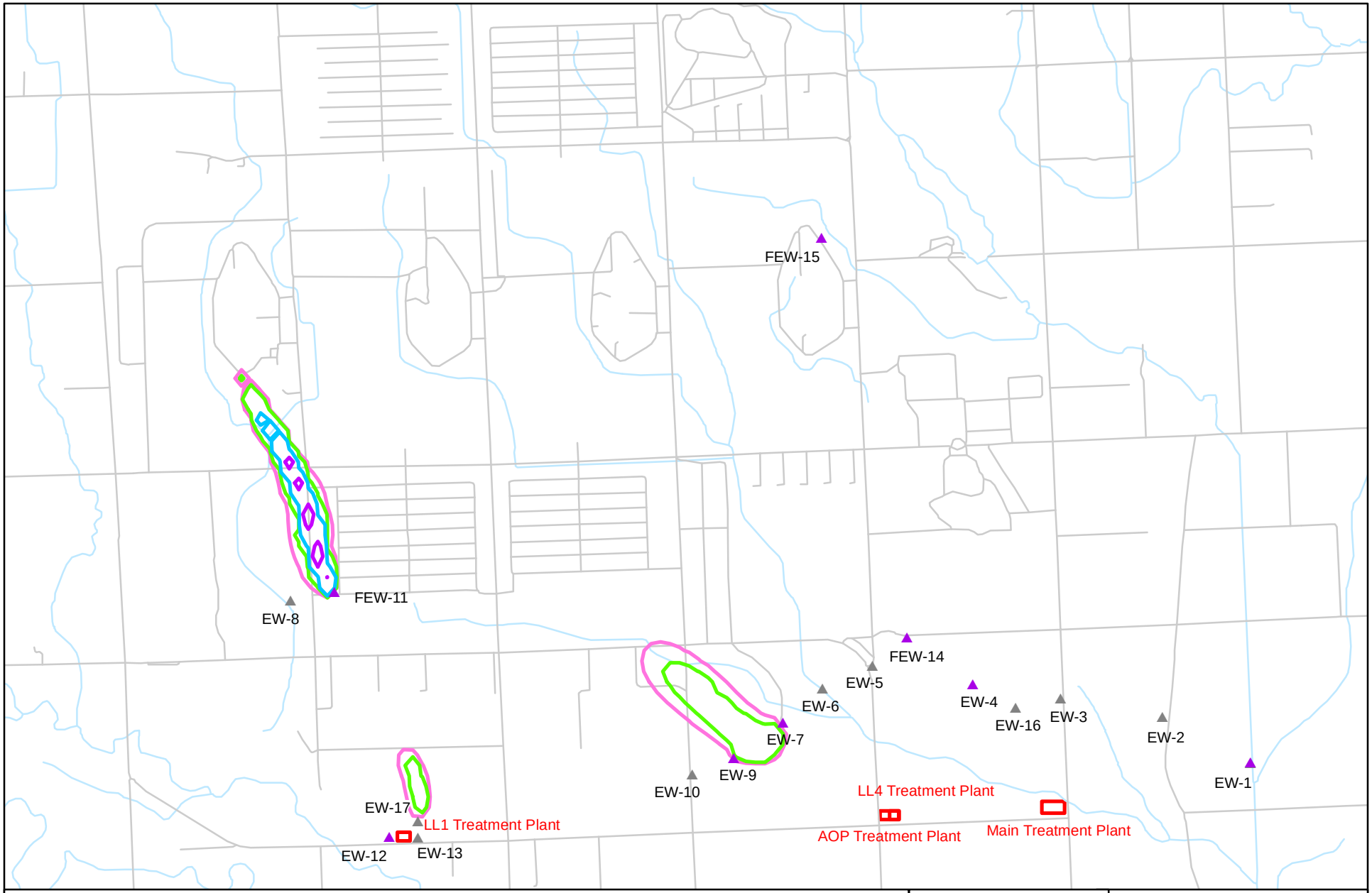
0 1,500 3,000 6,000 Feet

US Army Corps of Engineers®
Kansas City District

Figure D-4

PREDICTED TCE
LAYER 2
2112
Former NOP

K:\ENV\ECC\site\51469\Data\GIS\2013\2012 GWM\FigD-4_TCE_L2_2112.mxd jmf June 13, 2013



Legend

USACE Extraction Well

Treatment Plant

Trichloroethene (TCE) Contours

- 5 ug/L
- 10 ug/L
- 100 ug/L
- 1,000 ug/L
- 10,000 ug/L

N

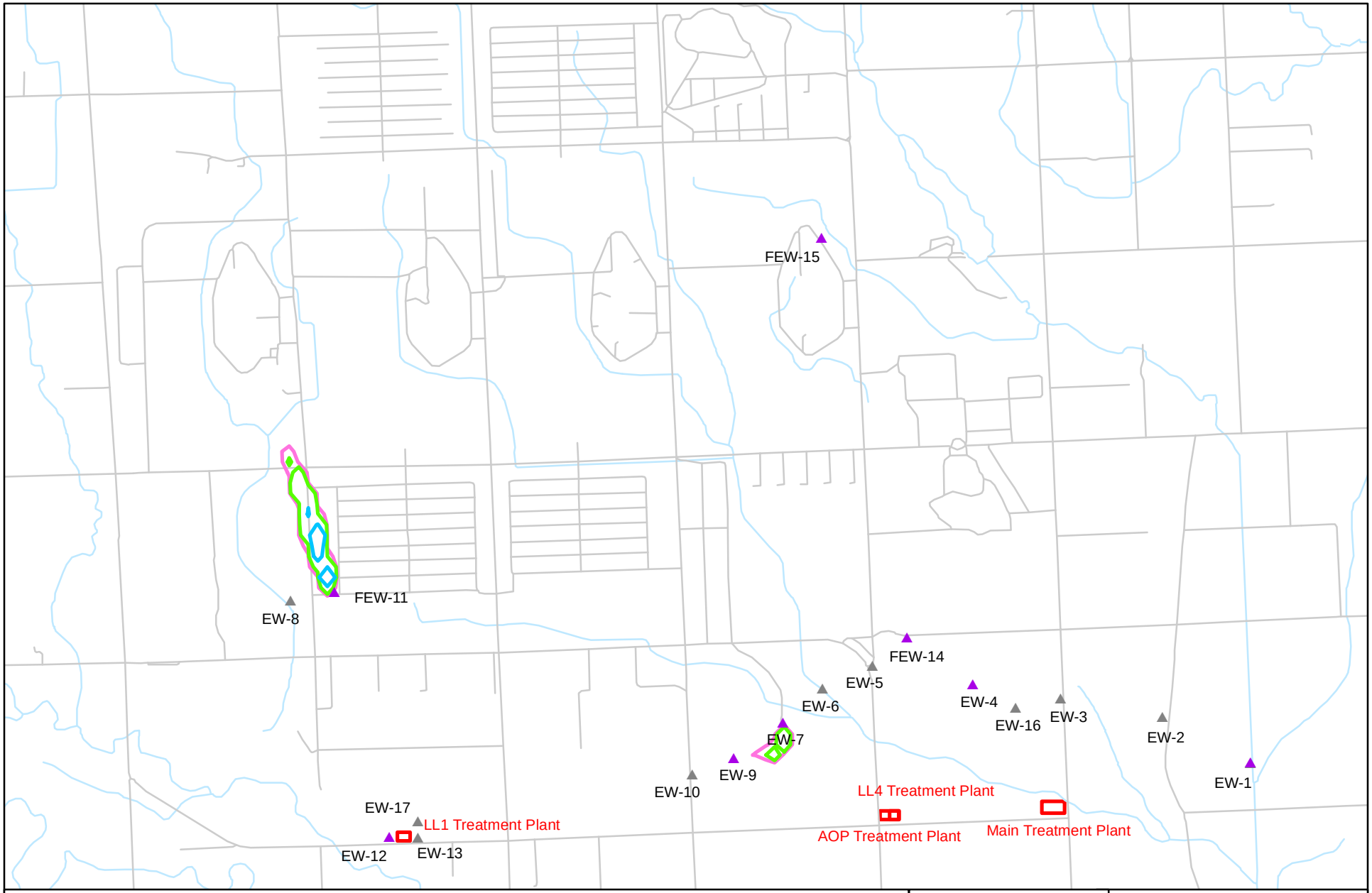
0 1,500 3,000 6,000 Feet

US Army Corps of Engineers®
Kansas City District

Figure D-5

PREDICTED TCE
LAYER 3
2052
Former NOP

K:\ENV\ECC\site\51469\Data\GIS\2013\2012 GWM\FigD-5_TCE_L3_2052.mxd jmf ro August 5, 2013



Legend

USACE Extraction Well

Treatment Plant

Trichloroethene (TCE) Contours

- 5 ug/L
- 10 ug/L
- 100 ug/L
- 1,000 ug/L
- 10,000 ug/L

N

0 1,500 3,000 6,000 Feet

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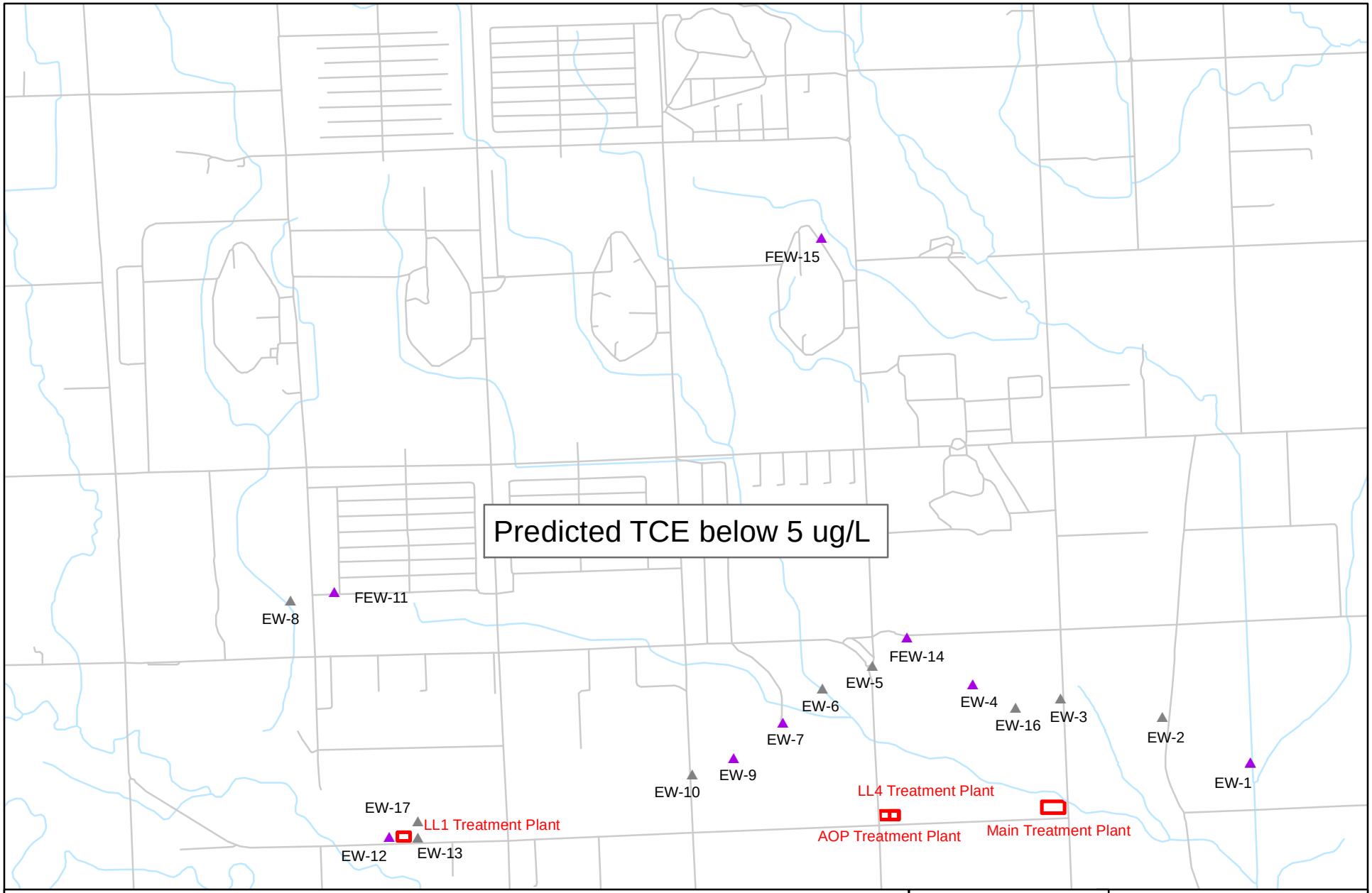
Figure D-6

PREDICTED TCE
LAYER 3
2062
Former NOP

K:\ENV\ECC\site\51469\Data\GIS\2013\2012 GWM\FigD-6_TCE_L3_2062.mxd jmf ro August 5, 2013



Legend

USACE Extraction Well

Treatment Plant

Trichloroethene (TCE) Contours

- 5 ug/L
- 10 ug/L
- 100 ug/L
- 1,000 ug/L
- 10,000 ug/L

N

0 1,500 3,000 6,000 Feet

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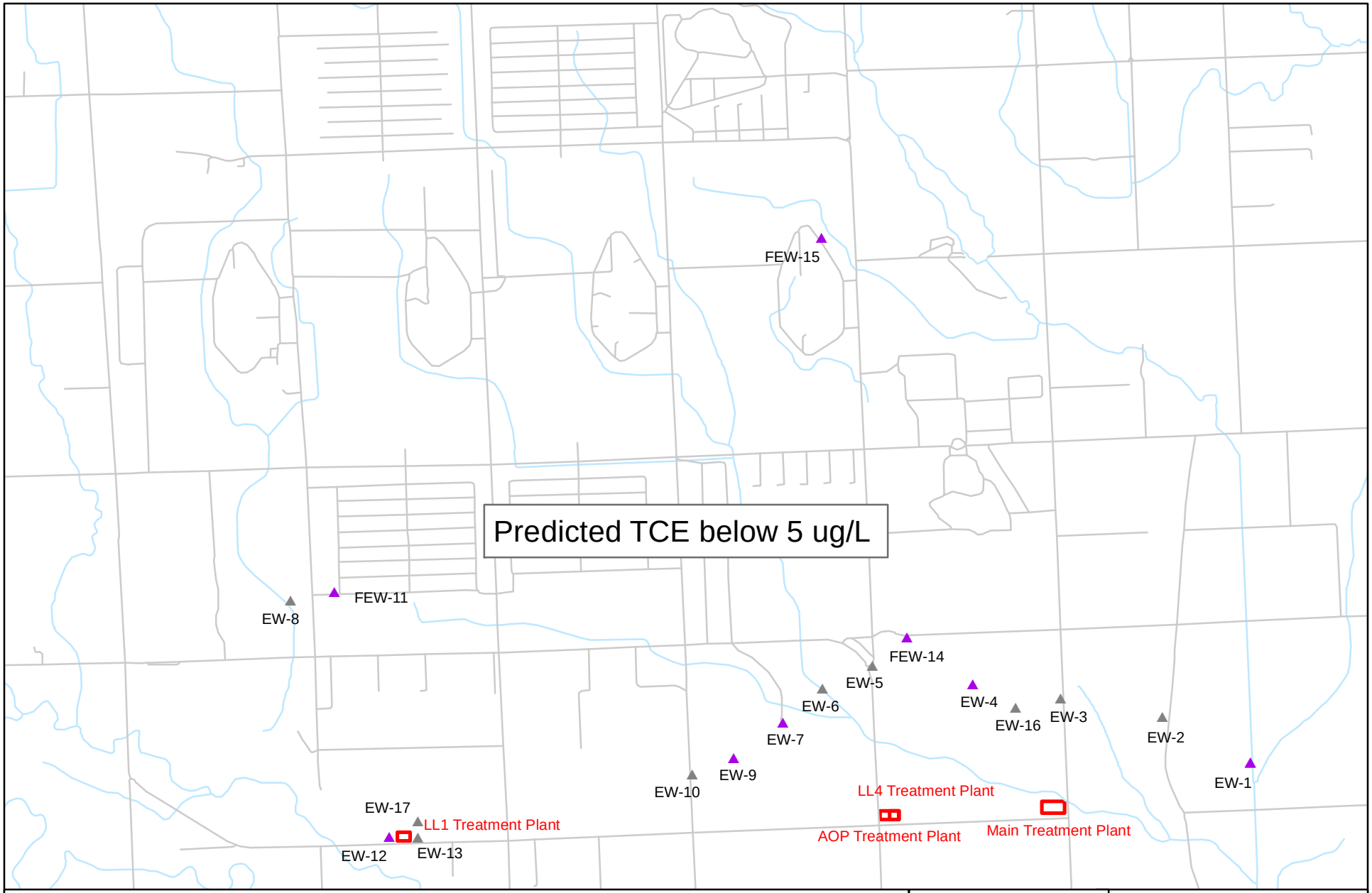
Figure D-7

PREDICTED TCE
LAYER 3
2087
Former NOP

K:\ENV\ECC\site\51469\Data\GIS\2013\2012 GWM\FigD-7_TCE_L3_2087.mxd jmf ro August 5, 2013



Legend

USACE Extraction Well

Treatment Plant

Trichloroethene (TCE) Contours

- 5 ug/L
- 10 ug/L
- 100 ug/L
- 1,000 ug/L
- 10,000 ug/L

N

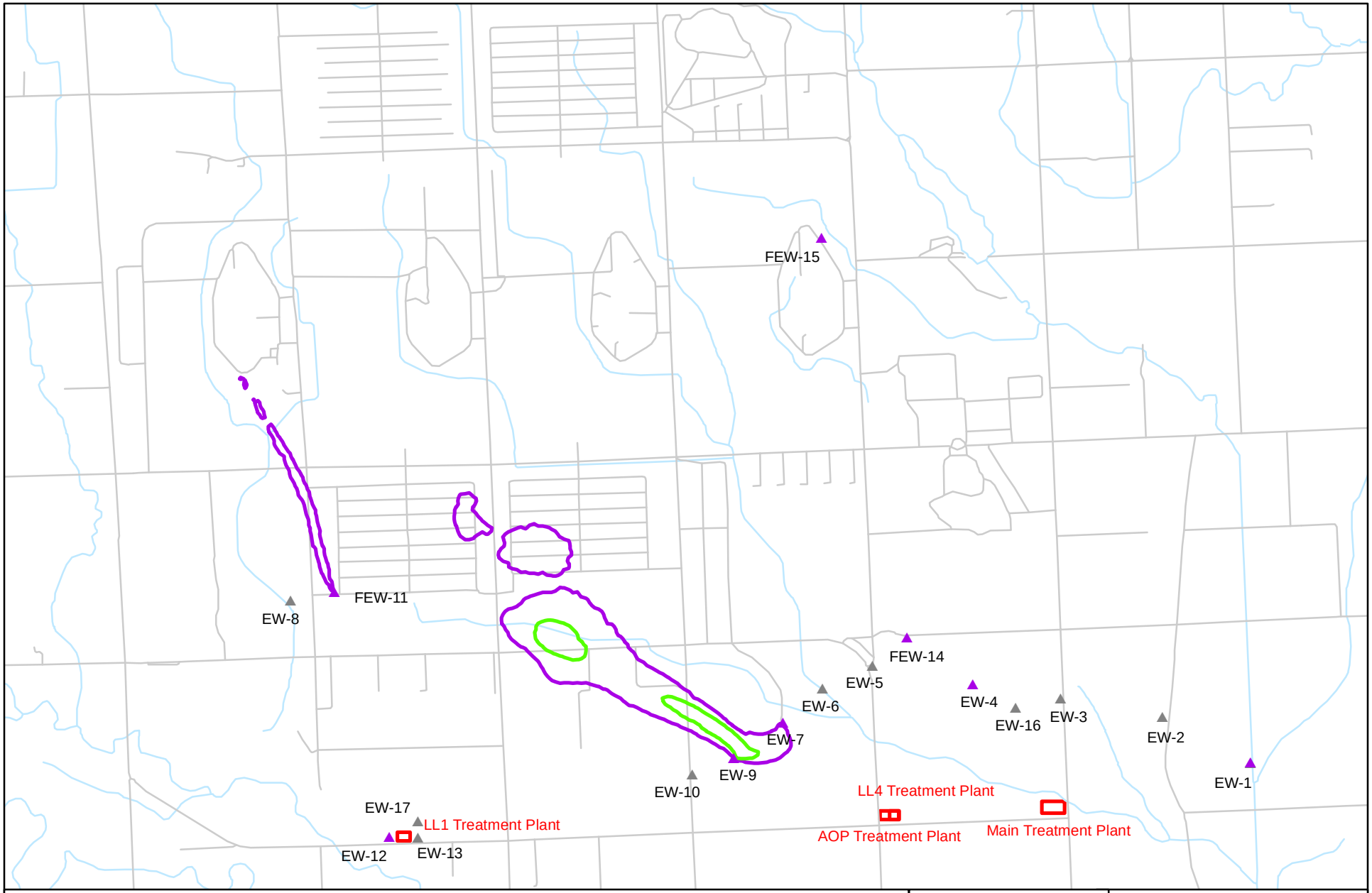
0 1,500 3,000 6,000 Feet

US Army Corps of Engineers ®
Kansas City District

Figure D-8

PREDICTED TCE
LAYER 3
2112
Former NOP

K:\ENV\ECC\site\51469\Data\GIS\2013\2012 GWM\FigD-8_TCE_L3_2112.mxd jmf ro August 5, 2013



Legend

USACE Extraction Well

Treatment Plant

RDX Contours

2 ug/L

10 ug/L

50 ug/L

N

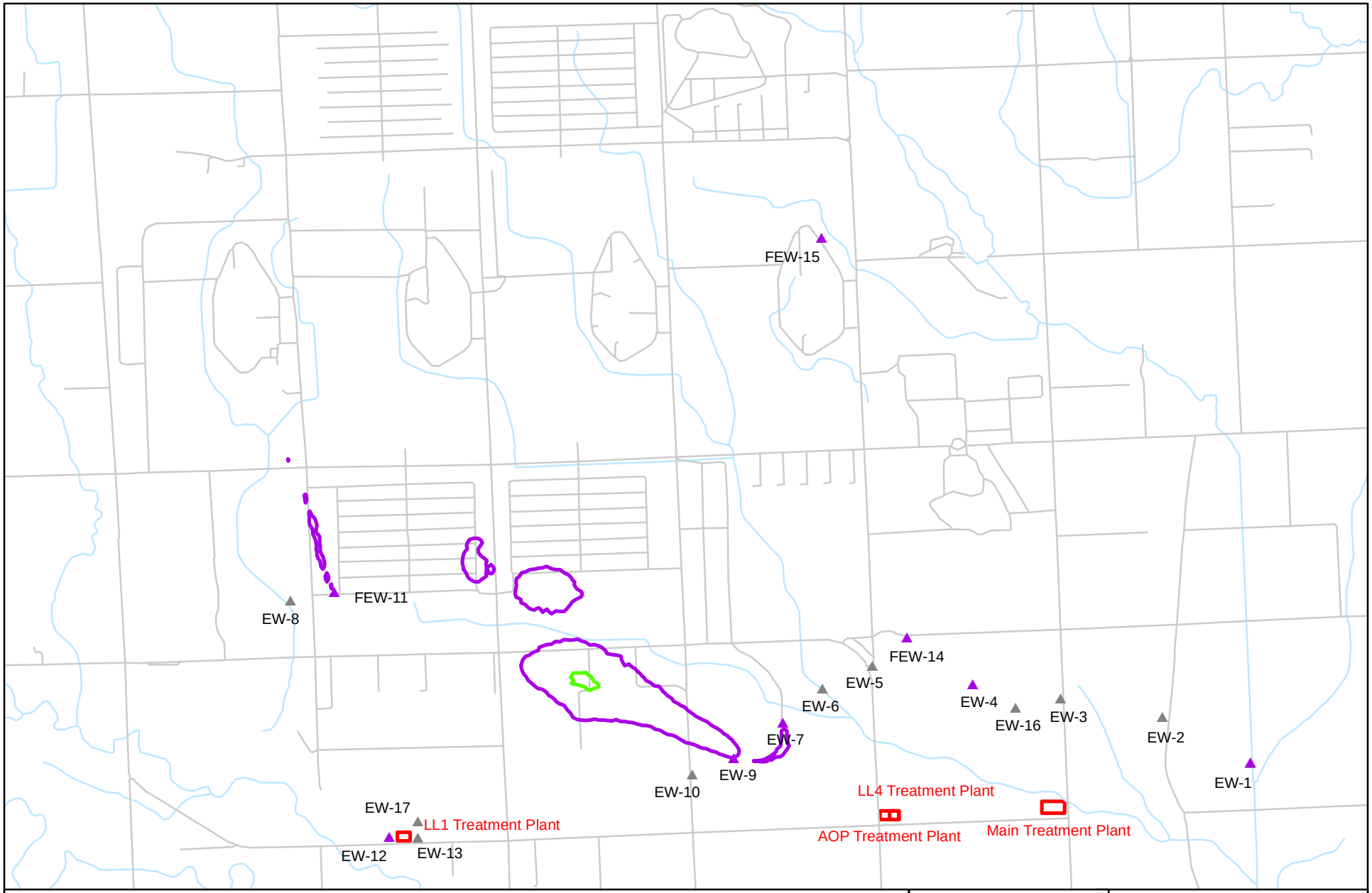
0 1,500 3,000 6,000 Feet

US Army Corps of Engineers ®
Kansas City District

Figure D-9

PREDICTED RDX
LAYER 2
2052
Former NOP

K:\ENV\ECC\site\51469\Data\GIS\2013\2012 GWM\FigD-9_RDX_L2_2052.mxd jmf August 1, 2013 rev 01



Legend

- USACE Extraction Well
- Treatment Plant

RDX Contours
- 2 ug/L
- 10 ug/L
- 50 ug/L

N

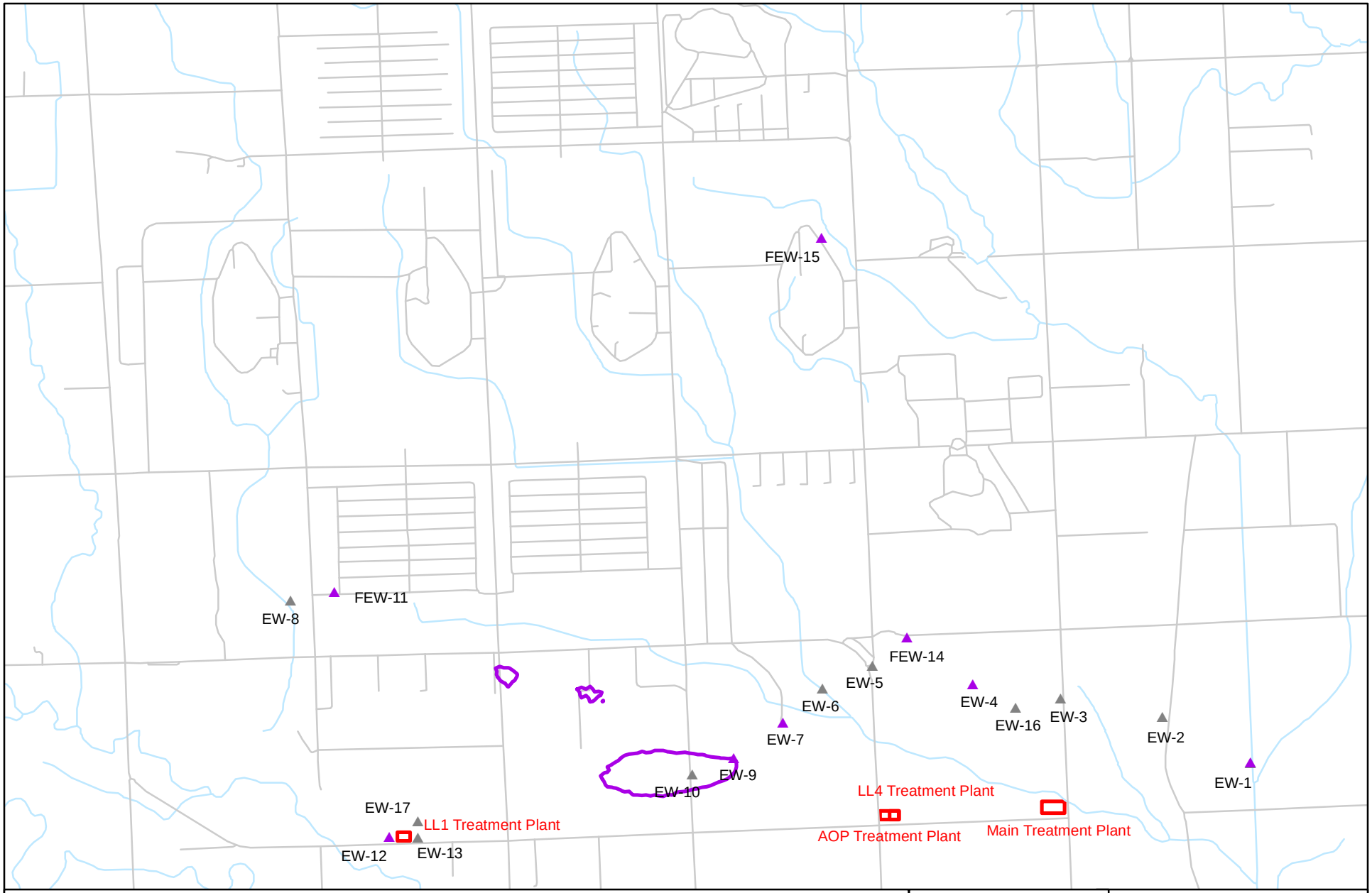
0 1,500 3,000 6,000 Feet

US Army Corps of Engineers
Kansas City District

Figure D-10

PREDICTED RDX
LAYER 2
2062
Former NOP

K:\ENV\ECC\site\51469\Data\GIS\2013\2012 GWM\FigD-10_RDX_L2_2062.mxd jmf August 1, 2013 rev 01



Legend

USACE Extraction Well

Treatment Plant

RDX Contours

2 ug/L

10 ug/L

50 ug/L

N

0 1,500 3,000 6,000 Feet

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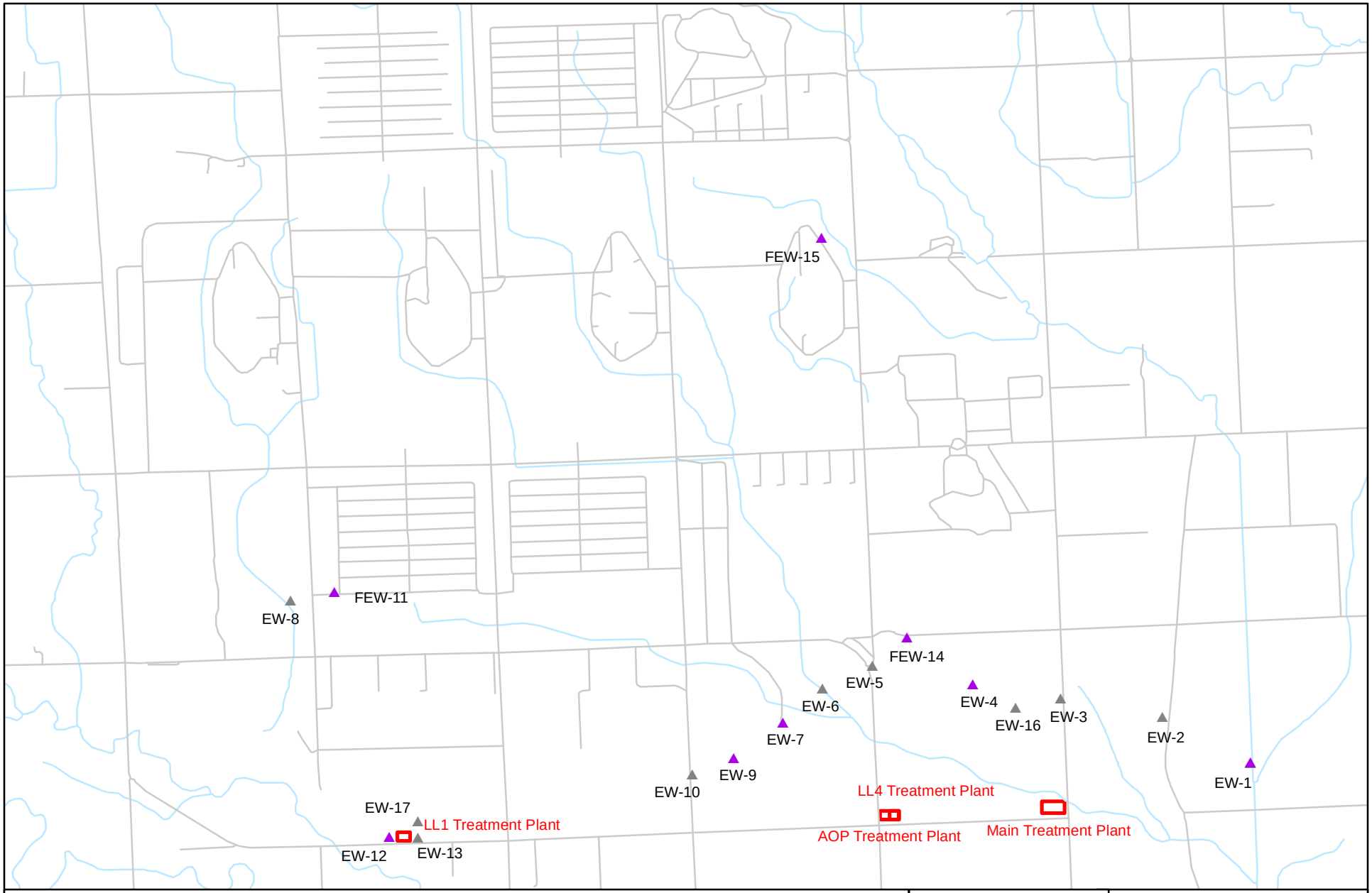
Figure D-11

PREDICTED RDX
LAYER 2
2087
Former NOP

K:\ENV\ECC\site\51469\Data\GIS\2013\2012 GWM\FigD-11_RDX_L2_2087.mxd jmf August 1, 2013 rev 01



Legend

USACE Extraction Well

Treatment Plant

RDX Contours

2 ug/L

10 ug/L

50 ug/L

N

0 1,500 3,000 6,000 Feet

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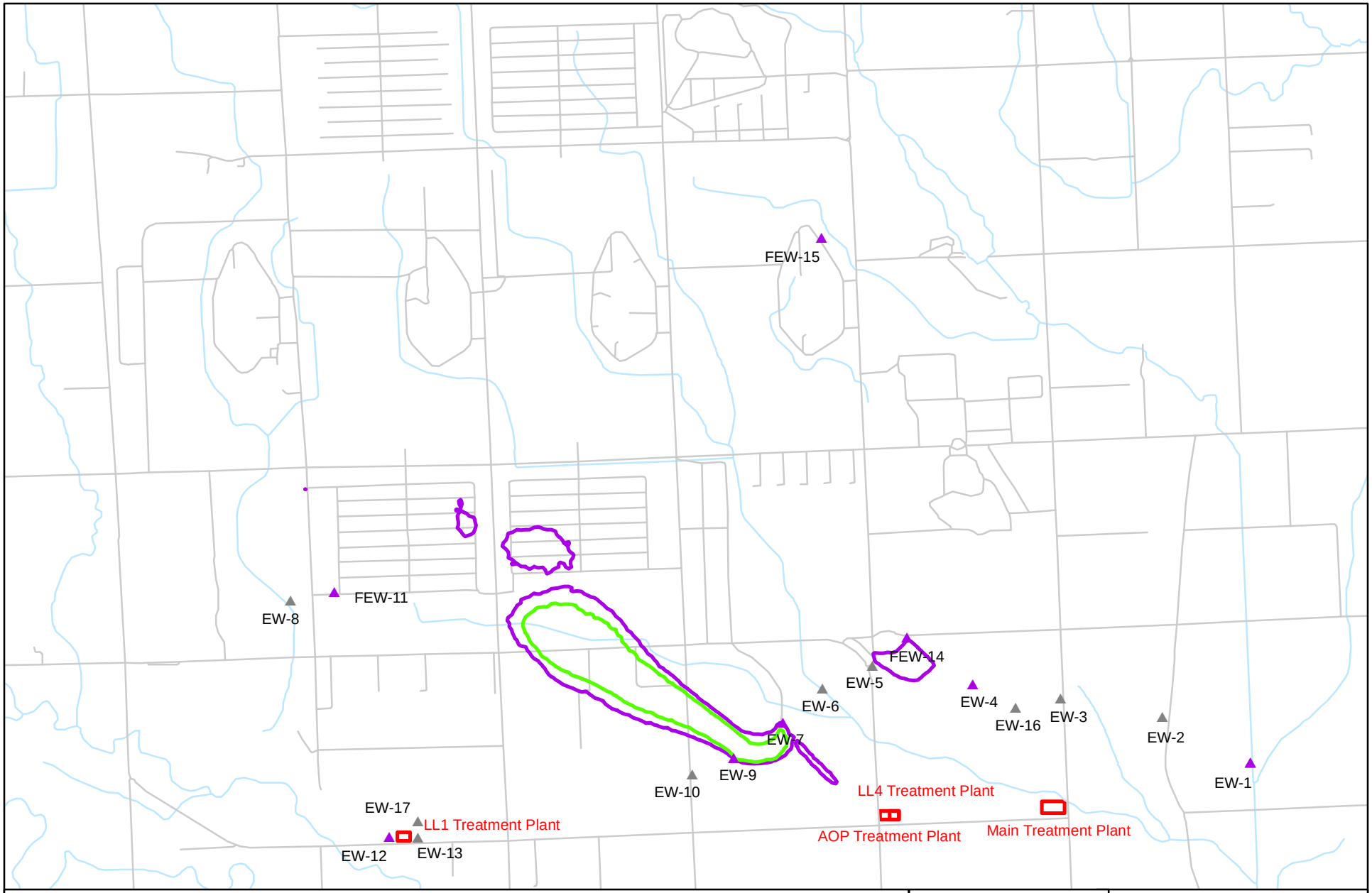
Kansas City District

Figure D-12

PREDICTED RDX
LAYER 2
2112
Former NOP

K:\ENV\ECC\site\51469\Data\GIS\2013\2012 GWM\FigD-12_RDX_L2_2112.mxd jmf August 1, 2013 rev 01



Legend

USACE Extraction Well

Treatment Plant

RDX Contours

2 ug/L

10 ug/L

50 ug/L

N

0 1,500 3,000 6,000 Feet

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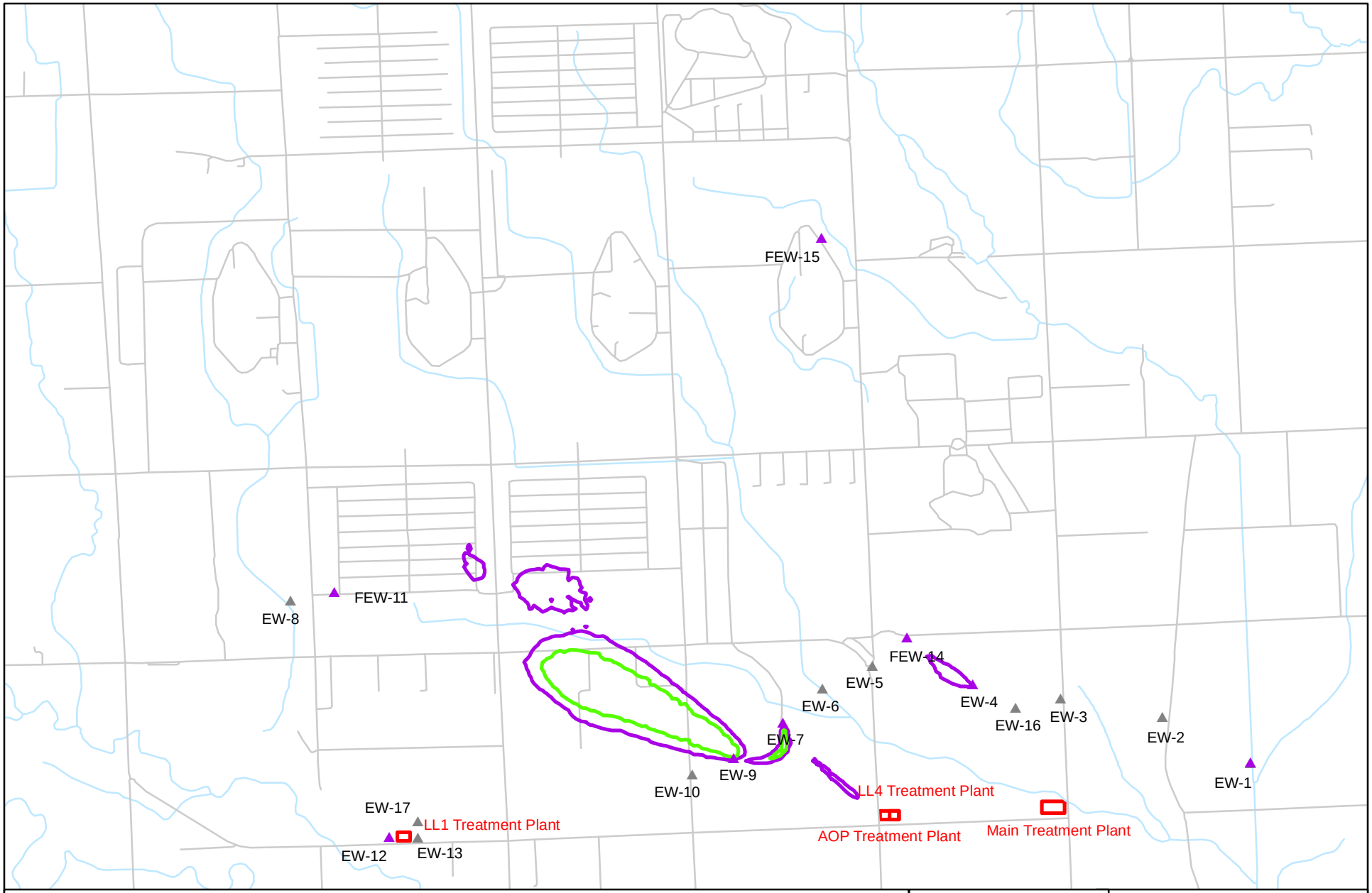
Kansas City District

Figure D-13

PREDICTED RDX
LAYER 3
2052
Former NOP

K:\ENV\ECC\site\51469\Data\GIS\2013\2012 GWM\FigD-13_RDX_L3_2052.mxd jmf August 1, 2013 rev 01



Legend

USACE Extraction Well

Treatment Plant

RDX Contours

2 ug/L

10 ug/L

50 ug/L

N

0 1,500 3,000 6,000 Feet

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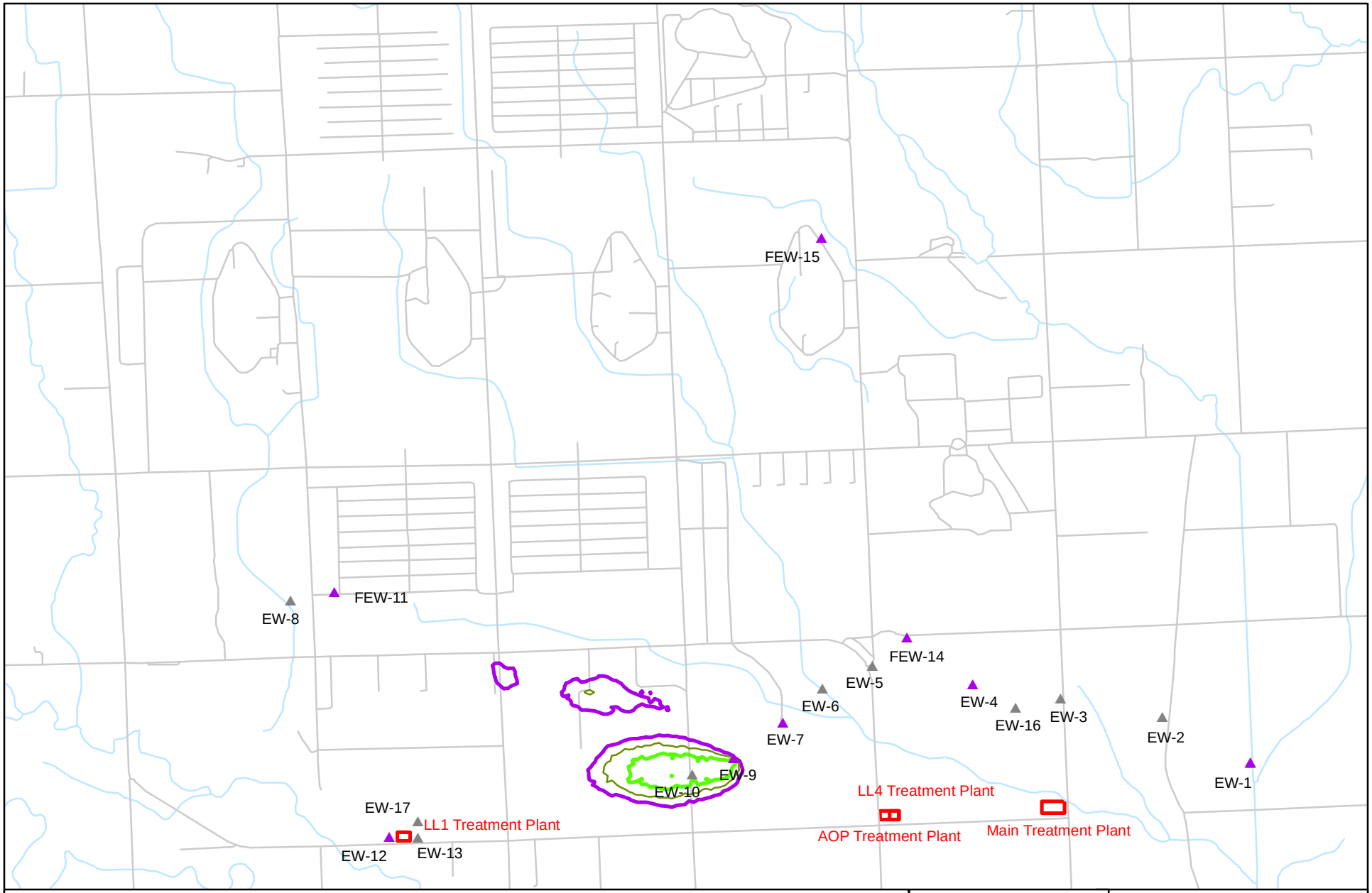
Figure D-14

PREDICTED RDX
LAYER 3
2062
Former NOP

K:\ENV\ECC\site\51469\Data\GIS\2013\2012 GWM\FigD-14_RDX_L3_2062.mxd jmf August 1, 2013 rev 01



Legend

USACE Extraction Well
Treatment Plant

RDX Contours
2 ug/L
10 ug/L
50 ug/L

N

0 1,500 3,000 6,000 Feet

US Army Corps of Engineers
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Figure D-15

PREDICTED RDX
LAYER 3
2087
Former NOP

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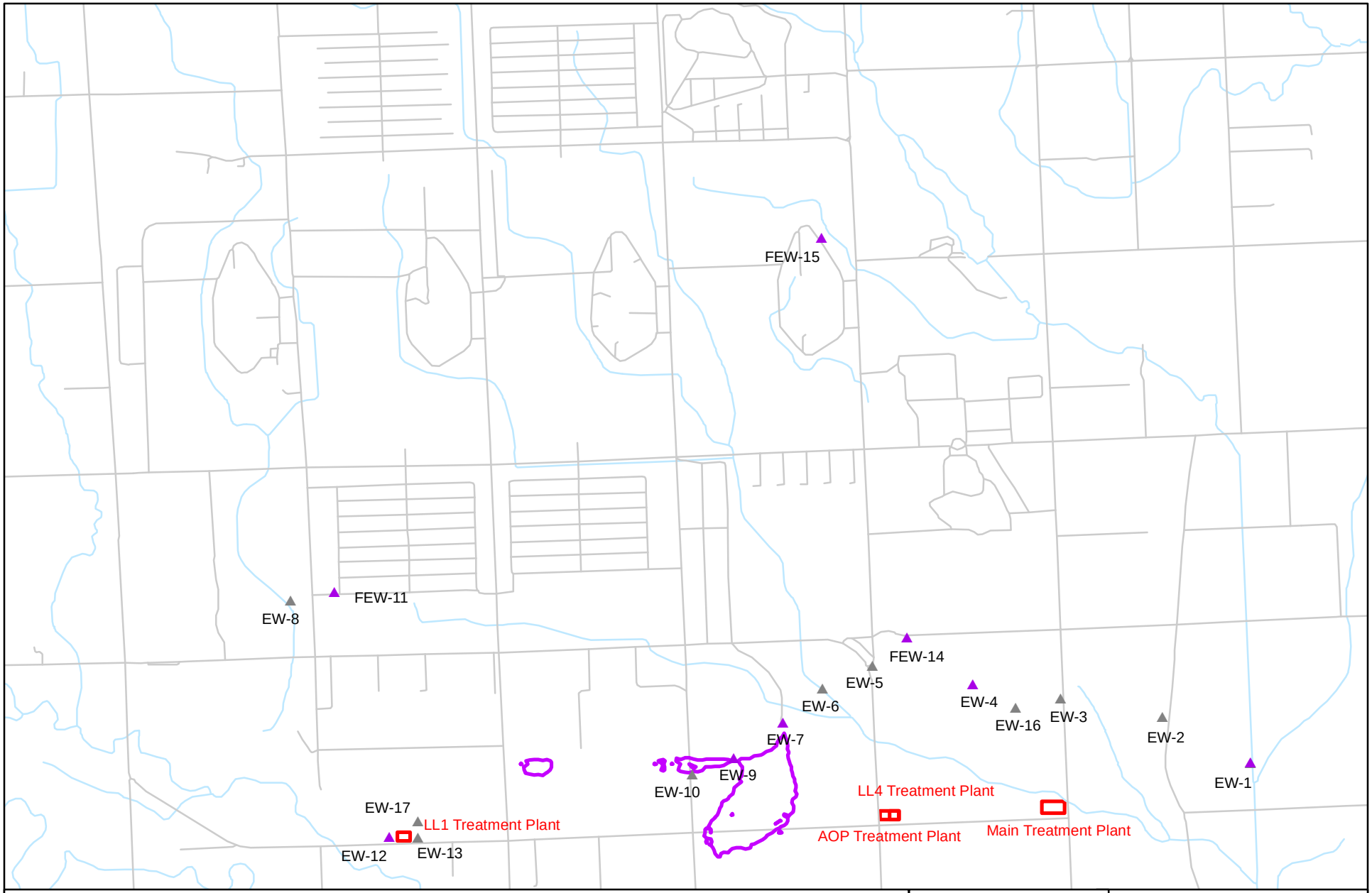

Legend

USACE Extraction Well

Treatment Plant

RDX Contours

2 ug/L

10 ug/L

50 ug/L

N

0 1,500 3,000 6,000 Feet

US Army Corps of Engineers®
Kansas City District

Figure D-16

PREDICTED RDX
LAYER 3
2112
Former NOP

K:\ENV\ECC\site\51469\Data\GIS\2013\2012 GWM\FigD-16_RDX_L3_2112.mxd jmf August 1, 2013 rev 01